Simplification List for
SAP S/4HANA 2023 – Initial shipment
and
SAP S/4HANA Cloud, private Edition 2023 – Initial Shipment
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1. Introduction

SAP® S/4HANA is SAP’s next-generation business suite. As such, it is not a legal successor of any SAP Business Suite product. It is a new product, built entirely on one of the most advanced in-memory platforms today – SAP HANA® – and incorporates modern design principles through the SAP Fiori user experience (UX). SAP S/4HANA delivers massive simplifications (customer adoption, data model, user experience, decision making, business processes and models) and innovations (Internet of Things, Big Data, business networks, and mobile-first) to help businesses Run Simple in the digital economy.

Through its approach to building SAP S/4HANA, SAP is re-architecting its solution for modern business processes that the ever-increasing digitization of the world demands. Re-architecting a solution that has been growing over the past 25 years and has, at points, evolved into different data structures and architectures means that we also have to decide on one data structure and architecture as we move forward. This is the only way that we can prepare the solution for increased simplicity and faster innovation cycles.

Example: In the current ERP system, we have two general ledgers: the classical general ledger and the new general ledger. The new general ledger was introduced mainly as a result of the need to support multiple valuation methods. As progressed in SAP S/4HANA, we naturally had to decide on one general ledger structure. We went with the structure of the new general ledger, which offers much higher flexibility.

In most cases, SAP is pursuing the functional strategies that were already laid out in the existing Business Suite world, where many innovations originate from (as in the example above). Consequently, it is possible to prepare for the system conversion to SAP S/4HANA by already adopting the future target capabilities in the classic SAP Business Suite.

That being said, SAP is taking on responsibility for managing the impact of these decisions.

- Many of the changes are purely technical and will have no or only limited impact on people’s work; therefore, they will not trigger business change management. Such changes will be mandatory when converting a system to SAP S/4HANA.
- Other decisions are of a more strategic nature, determining which version of functional support will evolve into the digital era and provide the capabilities that today’s unstoppable business process innovation demands. When these strategic directions demand change management through adoption, SAP will generally keep the traditional capabilities available as compatibility scope, enabling a predominantly technical migration of these processes and leaving the timing of
change management as a customer decision. Change management may therefore take place during the initial conversion or be postponed to a later point in time.

When compared to the number of SAP Business Suite products that appear in this list, the total list of simplifications for SAP S/4HANA may appear rather long. However, SAP does not foresee that any one customer system will be affected by all of them, because the simplifications cover all capabilities of the system, including industry solutions. This list should be treated as a complete inventory that needs to be mapped against a productive environment to determine the impact of converting.

SAP expects that the same applies to custom code that our customers or partners have implemented. This code has grown over time, and experience has shown that a large share of custom code is not even used anymore. Simplifying your own extensions will benefit the general simplification of your system. To ease this process, SAP will provide an analysis to identify custom code in the context of these changes, thereby quantifying the effort involved in custom code migration into a projectable quantity.

In addition, customers should know only SAP S/4HANA packages (and no other software) shall be deployed on an SAP S/4HANA installation. Details are provided in the Software Use Rights document.

To enable our customers to better plan and estimate their path to SAP S/4HANA, we have created the “Simplification List for SAP S/4HANA”. In this list we describe in detail, on a functional level, what happens to individual transactions and solution capabilities in SAP S/4HANA. Compared to the SAP Business Suite products, we have in some cases merged certain functionality with other elements or reflected it within a new solution or architecture.

1.1 Purpose of the Document
The purpose of this document is to support customers in converting their system from SAP ERP 6.x or SAP Simple Finance, to SAP S/4HANA or doing an upgrade of their SAP S/4HANA system.

Note: The Simplification List for SAP S/4HANA is edition/release dependent. In this collection we focus on SAP S/4HANA release 2023 Initial Shipment and SAP S/4HANA Cloud, private Edition release 2023 – Initial Shipment (for better readability we will use in this document the term ‘SAP S/4HANA release 2023 Initial Shipment’ for both product options.

For future SAP S/4HANA releases, a new list will be made available.

1.2 General Topics for the Simplification List
For a typical ERP 6.x customer, moving to the SAP S/4HANA On-premise edition requires a database migration to SAP HANA (if the customer is not yet running SAP HANA), followed by the installation of the new simplified code. Changes in adaption on the customer’s side are also required.
The most prominent example for which the customer needs to adapt to these SAP S/4HANA On-premise release delivery simplifications is the custom code, which needs to be compliant with the data structure and scope of the appropriate SAP S/4HANA release.

In addition, customers should be aware of the fact that only S/4HANA packages (and no other software) shall be deployed on an S/4HANA installation. Details are set forth in the Software Use Rights document.

Customers’ expectation related to the move to the SAP S/4HANA On-premise edition delivery is that SAP informs and provides guidance about the required steps and tasks on this journey.

Based on the “Simplification List for SAP S/4HANA”, SAP will provide information about the SAP S/4HANA On-Premise delivery related simplifications for each application/functional area. The Simplification List is a collection of individual “Simplification Items” that focus on what needs to be considered throughout an implementation or system conversion project from SAP ERP 6.X Customers to SAP S/4HANA On-premise edition.

Simplification Item Information
Each Simplification Item will provide the following information:
- Description, Business Impact, and Recommendations
- SAP Notes (for related Pre-Checks or Custom Code Checks)

Description
The Simplification List is structured into different application / functional areas that you should already be familiar with from SAP Business Suite, with a short explanation about the technical change.

Business Process-Related Information
Here you will find a description of what the Simplification Item means for the related business processes.

Recommendations
The dedicated recommendations provide a description about how the related custom code needs to be adapted (based on SAP Notes).

Note: The recommendations and SAP Notes are formulated in a general manner corresponding to a standard customer SAP Business Suite architecture and may therefore differ depending on the System Landscape that is actually in place.
Related Business Impact Note
The texts of the single simplification items are maintained in separate SAP Notes (so called Business Impact Notes). The related Business Impact Note and the related application component is provided per each single simplification Item within this document.

1.3 System Conversion Sequence
SAP provides a process for the conversion to SAP S/4HANA. The following figure gives an overview of the tools, the phases, and the activities involved in the process.

Recommendation: We recommend that you do the activities in the sequence shown in the figure and explained in the sections below.

![Figure 1: SAP S/4HANA System Conversion Sequence](http://help.sap.com/s4hana)


Maintenance Planner
You must use the Maintenance Planner to do the system conversion to SAP S/4HANA On-premise edition. Based on the Maintenance Planner, which is recommended to run in an early phase of the SAP S/4HANA System Conversion Project, the following items are checks if they are supported for the conversion:

- Any **Add-Ons** to your system\(^1\)
- Any active **Business Functions** in your system\(^2\)
- **Industry Solutions**\(^3\)

---

\(^1\) For a list of supported add-ons, see SAP Note 2214409
\(^2\) SAP Notes 2240359 for the Always-Off Business Functions and 2240360 for the Always-On Business Functions
\(^3\) See SAP Note 2214213 for supported industry solutions
If there is no valid conversion path for any of the items listed above (for example, an add-on is not released for the conversion yet), the Maintenance Planner prevents the conversion. After the check, the Maintenance Planner generates the download files (add-ons, packages, DBDs, and the stack configuration file) and creates the stack configuration file (stack.xml), which is used by SUM to convert to SAP S/4HANA On-premise edition.

### Pre-Check Relevance

Pre-checks are shipped to customers that want to convert to SAP S/4HANA On-premise edition in the form of SAP Notes. Customers can use these pre-checks to find out what mandatory steps they must carry out before converting to SAP S/4HANA. The results list the instances that need to be addressed before attempting the conversion process.

### Custom Code-Related Information

To support the customer in detecting custom code that needs to be adapted for the move to SAP S/4HANA, SAP offered custom code analysis tools (as part of NW 7.52 or higher). The customer can verify if his current custom code will be compliant with the SAP S/4HANA On-premise edition data structures and scope. For more Info see details related to custom code within SAP Documentation: [SAP Help](#)

### 1.4 The Simplification List for SAP S/4HANA release 2023 Initial Shipment – this document

This document provides information related to the Simplification List Items which are applicable for customers doing a system conversion from SAP ERP 6.0 on any EHP to SAP S/4HANA release 2023 Initial Shipment, or doing an upgrade of their SAP S/4HANA system to release 2023 Initial Shipment.

#### The Simplification List Items

The text of the Simplification Items included in this Simplification List is generated based on corresponding SAP Notes (they are called in the context of the Simplification List the Business Impact Notes) in their state at begin of general availability of this software release.

Examples:

<table>
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<td>Business Partner Approach</td>
<td>2265093</td>
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<tr>
<td>Material Number Field Length Extension</td>
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</tr>
</tbody>
</table>
Note: As the content of the related Business Impact Notes may change based on new insights at a later point of time, you should always read the related Business Impact Note directly for the latest version in the SAP note system within the SAP Support Portal.

The Business Impact Note might contain additional information related to the Simplification Item. For example, references to other SAP Notes or additional How-To-Guides. For example, the Simplification Item related to the Business Partner Approach contains a PDF describing the detailed Business Partner Conversion Activities. Please be aware that we do not include this additional information in the Simplification List document.

In case you have questions or requests to improve the text related to a Simplification Item feel free to open a support ticket based on the component of the Business Impact note.

The generation of the Simplification List document based on the business impact note does have an influence on the format and the length of this document.

A webbased UI for searching and displaying Simplification Items

For accessing an up-to-date version of the Simplification List please use:

- The [Simplification Item Catalog](#), which allows you to search and browse the full SAP S/4HANA Simplification List.
- The [SAP Readiness Check for SAP S/4HANA](#), which creates a customer specific Simplification List based on usage and configuration of the customer system.

For legacy reasons, for the time being, the Simplification List is still provided as a static PDF document. Please note that this is not the recommended medium for consuming the information of the Simplification List, as it does not contain all information that is available via the Simplification Item Catalog or the SAP Readiness Check for SAP S/4HANA.
2. Cross Topics

2.1 ABAPTWL - Visualization of SAP Business Workflow Metadata

Application Components: BC-BMT-WFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2896183</td>
<td>ABAPTWL – visualization of SAP Business Workflow metadata</td>
</tr>
</tbody>
</table>

Symptom

With the upgrade or system conversion to SAP S/4HANA 2020, all SWFVISU settings are overwritten with the delivery data. Customer-specific workflow tasks may respond differently at runtime or are not displayed as usual.

Reason and Prerequisites

For technical reasons, the delivery class of SWFVISU tables had to be changed from type "G" to "E". With type "G", customers could only add data records delivered by SAP. Existing settings were not overwritten. Type "E" also allows changing contents.

Solution

Description

You make the settings for displaying tasks and object types using SWFVISU or SWFVMD1.

- SWFVISU saves the settings for all clients and is used by SAP to deliver the data.
- SWFVMD1 saves the data client-dependently (customizing) and should be used by customers to enter own settings or overwrite data delivered by SAP.

Up to now, SWFVISU settings were not overwritten on the customer side. Only data that was newly delivered by SAP was added.

Business-Process-Related Information

If you have entered your own settings in SWFVISU or have adjusted delivered data, the appearance or response of individual work items in MyInbox may change.
Required and Recommended Action(s)

Transfer your settings manually to SWFVMD1 before the upgrade or conversion.

- Call transaction SWFVISU.
- Call transaction SWFVMD1 in a second window.
- Transfer only your changed settings to SWFVMD1 and save them.

To be on the safe side, you can export the entire content of SWFVISU to a Microsoft Excel file. This file serves only documentation purposes and cannot be imported automatically.

Other Terms

IMG activity: Visualization of SAP Business Workflow Metadata

2.2 ABAP4TWL - Removal of Tagging Framework

Application Components: BC-SRV-TFW

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2865890</td>
<td>Package STFW and Sub-Packages are missing</td>
</tr>
</tbody>
</table>

Symptom

The packages STFW and its sub-packages STFW_* of re-use component Tagging Framework are missing.

Reason and Prerequisites

Tagging Framework functionality has been withdrawn.

Solution

The functionality has been withdrawn without replacement.

Other Terms
STFW

2.3 ABAP4TWL - Removal LT Check ATC Adapter

Application Components: BC-CUS-TOL-LT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2862972</td>
<td>Package S_CHECK_SAP_LT is missing</td>
</tr>
</tbody>
</table>

Symptom

Package S_CHECK_SAP_LT containing checks for consistency of long text are deleted in ABAP Platform.

Reason and Prerequisites

The checks belong to an SAP internal use case and have been withdrawn.

Solution

There is no substitution for programmatic usage.

All checks relevant for quality assurance of ABAP programs are part of the ABAP Test Cockpit test content.

Other Terms

CL_ATC_ADG_LT_CDOC_CHECK, CL_CHK_LT_CDOC_CHECK,
CL_ATC_ADG_LT_FIELD_CHECK, CL_CHK_LT_FIELD_CHECK

2.4 ABAP4TWL - Removal of ILM Store Monitoring GUI

Application Components: BC-ILM-STO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Symptom

Package S_ILM_STOR_MONITOR_CSV and S_ILM_STOR_MONITOR_GUI of solution management are missing.

Reason and Prerequisites

The functionality is replaced by other functionality in SAP Solution Manager. There is no direct recommendation to replace the deleted code, because functionality is tailored differently.

Solution

The functionality has been withdrawn without replacement.

Other Terms

Package S_ILM_STOR_MONITOR_CSV

Package S_ILM_STOR_MONITOR_GUI are missing

2.5 ABAP4TWL - Removal of Drag and Relate Workplace Plugin

Application Components: CA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2862992</td>
<td>Packages DRSCENARIOS, POR4, PORX and PORX_COMPATIBILITY are missing</td>
</tr>
</tbody>
</table>

Symptom

The packages DRSCENARIOS, POR4, PORX and PORX_COMPATIBILITY of Workplace Plug-in 3.0 and Workplace Plug-in 4.0 are missing.
Reason and Prerequisites

"Drag & Relate" functionality has been withdrawn, see also SAP Note 1829697.

Solution

The functionality has been withdrawn without replacement.

Other Terms

Business Object Type DRDYNFIELD
Function Groups SDW4, SDWP, SDWZ, SPR4, SPRT
Transaction SPO0, SPO1, SPO4, SPO4_DISP, SPO5

2.6 ABAP4TWL - Removal of Package SCMO

Application Components: SV-SMG-SDD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2926680</td>
<td>Package SCMO is missing</td>
</tr>
</tbody>
</table>

Symptom

The package SCMO covering CRM Service Data download functionality is missing

Reason and Prerequisites

The functionality is replaced by other business functionality. There is no direct recommendation to replace the deleted code, because business functionality is tailored differently.

Solution

The functionality has been withdrawn without replacement.

Other Terms
Package SCMO, Function Group CMON

2.7 ABAP4TWL - Removal of ByDesign Config Framework Services

Application Components: BC-CFG-RT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2886479</td>
<td>Package C2_SERVER and its sub-packages are missing</td>
</tr>
</tbody>
</table>

Symptom

The package C2_SERVER and its sub-packages are missing.

Reason and Prerequisites

Configuration framework used in older cloud products of SAP has been removed from latest product versions of SAP CP ABAP Environment, S/4HANA CE, S/4HANA OP and similar.

Solution

There is no replacement of the functionality.

Other Terms


2.8 ABAP Test Framework: Export of ATC Results to 3rd Party Tools

Application Components: BC-DWB-TOO-ATF

Related Notes:
Business Impact | 3150564 | ABAP package SATC_CI_EXTTOOLS_INTEGRATION is not available in S/4HANA

Symptom

ABAP package SATC_CI_EXTTOOLS_INTEGRATION is not available in S/4HANA.

Reason and Prerequisites

Replication of scan results from Code Vulnerability Analyzer to external targets is discontinued.

Solution

In case you have references in your custom programs to ABAP artifacts of package SATC_CI_EXTTOOLS_INTEGRATION, please remove these usages before you migrate your SAP NetWeaver based custom ABAP to S/4HANA product family.

Other Terms

Replicating CVA Results from ATC to external tools

2.9 ABAPTWL - Deprecation of Hana Rules Framework

Application Components: BC-SRV-BR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3243120</td>
<td>S4TWL - Deprecation of SAP Hana Rules Framework</td>
</tr>
</tbody>
</table>

Symptom

You are upgrading your system to S/4HANA On-Premise 2022 FPS1 or following releases from an older release.

Reason and Prerequisites

Deprecation of SAP HANA Rules Framework.

Solution
Description

The functionality to build and to model analytical rules via BRF+ and to push these rules down to HANA (SAP HANA Rules Framework) is deprecated now and will be removed as a comprised component in S/4HANA On-Premise 2023.

Business Process related information

It will not be possible to create analytical functions in BRF+ projects. Already created analytical functions will stop working with S/4HANA On-Premise 2023.

Required and Recommended Action(s)

Please carry out a manual migration or remodeling from HRF (analytical function) to Business Rule Framework plus (BRF+).
See also https://help.sap.com/docs/ABAP_PLATFORM_NEW/9d5c91746d2f48199bd465c3a4973b89/9a6b67ce7c26446483af079719edf679.html?version=201809.000

Other Terms

Business Rule Framework plus (BRF+), SAP HANA Rules Framework (HRF)

2.10 ABAPTWL - No support for non simplified system flavour

Application Components:BC-ABA-LA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2656503</td>
<td>No support for non simplified system flavour</td>
</tr>
</tbody>
</table>

Symptom

You are using profile parameter system/usage_flavor without any effect.

Reason and Prerequisites

S/4 systems only support the simplified system flavor. This includes for example that it support Hana database only.

Solution
The parameter is obsolete and shall no longer be set. The new behavior equals parameter value SIMPLE.

Other Terms

Simplification

2.11 ABAPTWL - Cleanup of orphaned objects

Application Components: BC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2672757</td>
<td>Simplification of SAP_BASIS within SAP S/4HANA 1809</td>
</tr>
</tbody>
</table>

Symptom

With SAP S/4HANA 1809 some technical features have been withdrawn, which are not available for SAP S/4HANA on-premise.

Reason and Prerequisites

This SAP Note serves as a reference for SAP S/4HANA custom code checks (see SAP Notes 2190420, 2241080) related to some obsolete and orphaned objects which were deleted in SAP_BASIS 7.53.

The deleted objects do not belong to a specific, released functionality. Hence no functional impact of the deletion on customers is expected.

Solution

Remove any usages of these deleted objects found by ABAP Test Cockpit in your custom code and replace them with equivalent objects in customer namespace.

Other Terms

Conversion SAP ERP, SAP S/4HANA.
2.12 ABAPTWL - SSCR license key procedure is no longer supported

Application Components: BC-ABA-LA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2309060</td>
<td>The SSCR license key procedure is not supported in SAP S/4 HANA</td>
</tr>
</tbody>
</table>

Symptom

You have developer authorization and use ABAP development tools, but the SSCR license key request is not shown.

Reason and Prerequisites

Your system is either any of the SAP S/4HANA on premise system variants, starting with S/4HANA 1511, or any of the SAP BW/4HANA variants. The SSCR license key procedure is not implemented in S/4HANA or BW/4HANA.

Depending on your task and question you may proceed as outlined in the solution section of this SAP Note.

Solution

Q1 – Is it possible to activate SSCR license key?

The SSCR license key functionality is activated and deactivated by the product.

Q2 – What feature substitute the control mechanism of SSCR Keys?

SSCR keys are no control mechanism of ABAP content. They are a licensing feature for some older products, but not for S/4HANA.

Q3 – How is it possible to control development?

To keep control over development is multi-step approach.

You define changeability of SAP system by transaction SE06. You reach this setting by the button "System Change Option" in the toolbar of transaction SE06.

You define client specific behavior for development by transaction SCC4 “Clients: Overview”.

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Developers getting to SAP delivered artifacts, receive message TR852 or are blocked, depending on above settings.

Furthermore, you should assign developer permissions (authorization objects S_TRANSPRT and S_DEVELOP) carefully. I.e. tailored to the organization of your development projects by using the authorization fields DEVCLASS, OBJTYPE, OBJNAME, P_GROUP, and ACTVT of S_DEVELOP.

Q4 – How can I monitor, what SAP code has been changed?

Changes on SAP ABAP software can be found in transaction SE95.

Q5 – Is there a difference between modification and correction instruction?

The ABAP development tools do not distinguish the reason for change. From software lifecycle every change on originally delivered version must be adjusted when new software version is implemented. The reason for the change is not relevant for the authority check.

Other Terms

SAP S/4HANA, SSCR key, Developer key, Access key, object key, modification

2.13 S4TWL - Removal of Business Application Accelerator

Application Components:BC-DB-DBI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>1694697</td>
<td>SAP Business Application Accelerator powered by HANA</td>
</tr>
</tbody>
</table>

Symptom

You are looking for information about the SAP Business Application Accelerator powered by HANA.

Solution

The SAP Business Application Accelerator powered by HANA has been offered as ABAP Add-on in a restricted shipment mode until end of 2016.
Starting with 2017 the Add-on is no longer available for new customers.

The Add-on is in general not supported in S/4 HANA. The existence of the Add-on is blocking technical conversions to S/4HANA 1511 and 1610. Technical conversions to 1709 and beyond are possible.

Support for existing customers on non-4/HANA products is continued under the same conditions as before.

To benefit from SAP HANA it is recommended to migrate the entire system to SAP HANA, possibly with a multi node setup for optimized load distribution.

For a description of the functionality and usage of the SAP Business Application Accelerator powered by HANA please read the attached Customer Guide.

Contents:

1 Introduction
2 Concept
2.1 Redirected Operations
2.1.1 Statements
2.1.2 Source
2.2 Context Definition
2.3 Context Evaluation at Runtime
3 Using the SAP Business Application Accelerator
3.1 Installation
3.2 General Activation
3.3 Loading Scenarios
3.3.1 Predefined SAP Scenarios
3.3.2 Custom Scenarios
3.4 Trouble Shooting

Other Terms

Suite Accelerator, Scenarios, Context, RDA_MAINTAIN

2.14 ABAPTWL - VM Container not supported

Application Components:BC-VMC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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</table>

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### Business Impact

<table>
<thead>
<tr>
<th>Business Impact</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kernel for S/4 HANA does not support VMC</td>
<td>2560708</td>
<td></td>
</tr>
</tbody>
</table>

### Symptom

Starting with S/4HANA release 1809, which corresponds to SAP Kernel version 7.73, the Virtual Machine Container (VMC) functionality is no longer included.

### Reason and Prerequisites

S/4HANA release 1809 and later does not support Virtual Machine Container (VMC) functionality.

Kernel 7.73 and following are not compatible with earlier versions of the SAP kernel.

### Solution

Do not use a kernel version >= 7.73 with systems that require VMC functionality. For such systems, a SAP Kernel with a version <= 7.53 has to be used.

If you want to preserve Java functionality implemented on the VMC, you have to migrate it to a standalone Java program or Java container, like SAP Application Server Java.

### Other Terms

VMC

### 2.15 ABAPTWL - AS Java not available

Application Components: BC-JAS-SF

Related Notes:

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<tr>
<th>Note Type</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2560753</td>
<td>Kernel for S/4 HANA cannot be used for NetWeaver AS Java</td>
</tr>
</tbody>
</table>

### Symptom

Starting with SAP Kernel version 7.73 the NW AS Java is no longer supported.

### Reason and Prerequisites
S/4 HANA does not contain the NetWeaver Application Server Java (AS Java).

Kernel 7.73 and following are not compatible with earlier versions of the SAP kernel.

Solution

Do not use a kernel version >= 7.73 with the NetWeaver AS Java.

Other Terms

AS Java, J2EE

2.16 ABAPTWL - Dual Stack not supported

Application Components: BC-CST

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2560791</td>
<td>Kernel for S/4 HANA does not support Dual Stack Systems</td>
</tr>
</tbody>
</table>

Symptom

Starting with S/4HANA release 1809, which corresponds to SAP Kernel version 7.73, the Dual Stack system setup is no longer supported.

Reason and Prerequisites

S/4HANA release 1809 and later does not support a dual stack system setup.

Kernel 7.73 and following are not compatible with earlier versions of the SAP kernel.

Solution

Do not use a kernel version >= 7.73 with a dual-stack system. For systems with dual-stack setup, a SAP Kernel with a version <= 7.53 has to be used.

If you need to migrate a dual-stack system to a release >= 1809, which corresponds to SAP Kernel version 7.73, you have to split the system into Java and ABAP parts before the upgrade. The Software Provisioning Manager (SWPM) offers such a migration option.
Other Terms

Dual Stack, AS Java

2.17 ABAPTWL - Instances without ICM not supported

Application Components: BC-CST-IC

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2560792</td>
<td>ABAP instances in SAP S/4HANA always start with an icman process</td>
</tr>
</tbody>
</table>

Symptom

AS ABAP instance always starts with an ICM process. Parameter rdisp/start_icman no longer exists and is ignored.

Reason and Prerequisites

The configuration option was removed.

Solution

Intended behaviour.

Other Terms

ICM, Instance

2.18 ABAPTWL - Removal of OSS1 (Logon to SAP Service Marketplace)

Application Components: BC-CCM-MON

Related Notes:

<table>
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<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
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<tbody>
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<td>Business Impact</td>
<td>2797047</td>
<td>OSS1: Transaction is deactivated</td>
</tr>
</tbody>
</table>

Symptom
This transaction is not needed furthermore because of the update of the SAP Support Backbone and new kind of connections to SAP.

**Reason and Prerequisites**

Shut down of SAP Service Marketplace SAP Frontend (OSS) and new kind of communication with SAP Backbone

**Solution**

Please read SAP Note 2738426 - Automated Configuration of new Support Backbone Communication for further info, here you could see the new needed info about the new tools and how to use.

**Other Terms**

RSEFA910, SAPOSS, SM01, SAP Service Marketplace SAP Frontend

### 2.19 ABAPTWL - End of Support for Pool Tables

**Application Components:** BC-DWB-DIC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2577406</td>
<td>S4TWL - End of support for pool tables, cluster tables, table pools and table clusters with S/4 HANA 1809</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 1809 on-premise edition release 1809 or higher. You have been using pool tables or cluster tables. The following SAP S/4HANA Transition Worklist Item is applicable in this case.

**Solution**

**Description**

Starting with release S/4 HANA 1809 pool tables and cluster tables are no longer supported. Automatic transformation of pool tables and cluster tables to transparent tables and the removal of table pools and table clusters is integrated into the upgrade or migration to S/4 HANA 1809.
Hint: Table clusters (examples: CDCLS, RFBLG, DOKCLU, ...) or cluster tables (examples: CDPOS, BSEG, DOKTL, ... in non-HANA Systems) must not be mixed up with export/import-tables (examples: INDX, STXL, ...). Export/import tables are used to store object collections as data clusters with the ABAP statement "EXPORT ... TO DATABASE ...". Export/import tables are still supported in 1809.

Business Process related information

The concept of pool and cluster tables is regarded as obsolete, particularly in the context of the HANA database. They implement an own limited in-memory mini-DBMS that is not transparent to the underlying database and that interferes with the optimization strategies of the underlying database. Accordingly, de-clustering and de-pooling is part of migrations to HANA based products already before release 1809. However, creation of new pool and cluster tables was still possible. With the mandatory transformation into transparent tables it is guaranteed that tables always have the optimal format for HANA.

Required and Recommended Action(s)

As in release 1809 table pools and table clusters (both have the object type R3TR SQLT; example table pool is ATAB; example table cluster is CDCLS) are removed, customer coding that has references to table pools or table clusters needs to be adapted. Such references are typically rare. ABAP coding normally deals with the logical tables (pool table or cluster table), which are still existing as transparent tables after the conversion, and not with the container tables (i.e. the table pools or table clusters).

If references to table pools and table clusters are not removed, syntax errors will show up in coding with such references after the upgrade or conversion to release 1809.

In addition coding that referenced the repository tables for table pools and table clusters needs to be adapted. All access to the tables DD06L, DD06T, DD16S and to the views DD06V, DD06VV and DD16V needs to be removed, as those tables and views do no longer exist in release 1809.

How to Determine Relevancy

Coding places that need to be adapted can be found as follows:

References to table pools and table clusters:

1. **Determine object list of references to table pools and table clusters:**
   
   All SQLT objects, that will no longer exist in release 1809 can be found in the table TADIR. Display the table content of table TADIR with transaction SE16 and select all SQLT object names with the selection "program id" = R3TR; "object type" = SQLT. Copy the list of SQLT objects into the clipboard.
2. **Quick Check:**
   Use the cross-reference table WBCROSSGT to find all coding places that use SQLT objects. First make sure that in the system you are using for the check the cross-reference tables are properly filled (see SAP Note 2234970 for details). Then display the table content of table WBCROSSGT with transaction SE16 and select all programs that use SQLT objects with the selection "version number component" = TY; "object" = <paste the object list determined in step 1>. **If the result list shows customer programs you are affected.**

3. **Detailed Check:**
   Use the code inspector (transaction SCI) to get a detailed list of all coding places. Create a check variant using the check "Search Functions" - "Objects used in programs". In the search pattern list enter \TY:<SQLT object> for all SQLT objects determined in step 1 (Example: \TY:ATAB ). Define an object set that includes all customer objects and run an inspection with the check variant and object set to get the detail list of all places.
   Remove all usages of SQLT objects in your coding. Hint: Pure type references can be replaced by references to the fields of the logical tables.
   As an alternative you can use in releases based on ABAP Platform 1709 (SAP_BASIS 752) or newer the code inspector check variant "Pools/Cluster-Types used in Programs". With this check variant you don't need to enter the object list manually.

**References to SQLT repository tables and views:**

1. **Repository tables object list:**
   DD06L, DD06T, DD16S, DD06V, DD06VV, DD16V

2. **Quick Check:**
   Use the cross-reference table WBCROSSGT to find all coding places that use the objects from step 1. Display the table content of table WBCROSSGT with transaction SE16 and select all programs that use the objects with the selection "version number component" = TY; "object" = <paste the object list from step 1>. **If the result list shows customer programs you are affected.**

3. **Detailed Check:**
   Use the code inspector (transaction SCI) to get a detailed list of all coding places. Create a check variant using the check "Search Functions" -> "Objects used in programs". In the search pattern list enter \TY:<object list from step 1> (Example: \TY:DD06L ). Define an object set that includes all customer objects and run an inspection with the check variant and object set to get the detail list of all places.
   Remove all usages of the repository tables and views in your coding.

**Transport behavior**
Cross release transports (R3trans) are in general not recommended. The import behavior for pool- and cluster related objects and content in systems with release 1809 or higher is given below for your information:

1. **Importing definitions of table pools or table clusters (R3TR SQLT):**
The object is not imported into the system. The transport finishes with RC = 4. In the DDIC import protocol a warning is issued.

2. **Importing content of a table pool or table cluster (R3TR TABU on table pool or table cluster):**
The content is not imported as the table cluster or table pool does not exist in the target system. The R3trans return code is RC = 8.

3. **Importing definitions of pool tables or cluster tables (R3TR TABD/TABL for tables that are pool tables or cluster tables in the export system):**
The table is treated as transparent table.

4. **Importing content of a pool table or cluster table (R3TR TABU on table pool or table cluster):**
The content is imported as of today if an according transparent table is existing.

### 2.20 S4TWL - FIORI APPLICATIONS FOR SUITE ON HANA ON-PREMISE

Application Components: XX-SER-REL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2288828</td>
<td>S4TWL - Fiori Applications for SAP Business Suite powered by SAP HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. You already use existing Fiori Apps in your Business Suite (e.g. ERP Enhancement Packages) landscape and would like to understand the conversion behavior and adoption needs on the frontend server.

**Reason and Prerequisites**

SAP S/4HANA, on-premise edition comes with a corresponding UI product for frontend server installation. The new SAP S/4HANA, on-premise edition UI product is not the successor of any Business Suite product and delivers a set of applications which is from a
technical and scope perspective independent from any previous Business Suite UI product. This implies the following conversion behaviour:

1. Different product scope

There is no automatism that apps from Business Suite will be offered in the same way for SAP S/4HANA, on-premise edition as well. Apps might be replaced, enhanced, changed, implemented using different technology or not offered in the SAP S/4HANA context. The available app scope can be checked in the SAP Fiori apps reference library (see detailed description below).

2. No automated conversion

The central frontend server must support multiple back-end systems. Therefore it is not possible to convert the existing settings from Business Suite applications during the installation as this would break the existing apps and Business Suite installations on the same frontend server. The new S/4HANA UI product can be co-deployed and runs only against the SAP S/4HANA, on-premise edition back-end. Also the other way round, existing Business Suite UI products will not run against a SAP S/4HANA, on-premise edition back-end. Configuration details for every app can be found in the SAP Fiori apps reference library.

Solution

Use the SAP Fiori apps reference library to check which applications are available for SAP S/4HANA, on-premise and for configuration details.

Option 1: Filter those apps, which are available in S/4HANA on-premise edition

In SAP Fiori apps reference library, use the Filter ‘Required Back-End Product’ and select ‘SAP S/4HANA, on-premise edition’ to display a list of all Fiori apps available. This filter can be combined with other filters like Line of Business or Role.

Option 2: Check availability in SAP S/4HANA on-premise edition for a single app

Select the Fiori app in the SAP Fiori apps reference library. A drop-down list box will appear in the header area of the app details page, if the app is available in multiple products. In case the selected app is not available for S/4HANA on-premise edition check, whether a successor app exist. You will can directly navigate to the successor app from the bottom of the PRODUCT FEATURES tab.

Example: Fiori app ‘My Spend’ for ERP has a successor ‘My Spend’, which is available for ERP Add-On ‘SAP FIORI for SAP SFIN 1503’ as well as ‘S/4 HANA on-premise 1511’
Option 3: Check availability in in S/4HANA on-premise edition for multiple apps

Filter and select all apps you want to check. Activate ‘Aggregate’ at the bottom of the app list to display a consolidated view about all selected apps. Select ‘SAP S/4HANA, on-premise edition’ in the drop-down on top of the list. All apps which are not available for SAP S/4HANA, on-premise edition will be highlighted as not available at the bottom of the list of selected apps.

Check in the details of the individual apps whether a successor app is available (see option 2 above).

Additional information provided per application area (where required):

- Note 2242596 - Release Information: Changes in Fiori Content in S/4Hana Finance, on-premise edition 1605 (sFIN 3.0)
- Note 2290488 - Changes in Fiori Application for SAP S/4 HANA in Sales and Distribution

Other Terms

Fiori, Conversion, Business Suite, S/4HANA on-premise, Conversion

2.21 S4TWL - SAP S/4HANA AND SAP BUSINESS WAREHOUSE CONTENT

Application Components: BW-BCT-GEN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2289424</td>
<td>S4TWL - SAP S/4HANA and SAP Business Warehouse Content - BI_CONT / BW4CONT</td>
</tr>
</tbody>
</table>

Symptom
You are doing a new installation or system conversion to SAP S/4HANA, on-premise or cloud edition. The following item is applicable in this case.

**Solution**

**Embedded BW in SAP S/4HANA**

The software components BI_CONT (BI Content) and BI_CONT_XT (BI Content Extensions) are not supported in the **Embedded BW** client of all editions and releases of SAP S/4HANA (cloud and on premise), even though they are technically installable.

**Exception:** For usage of SEM-BCS in embedded BW in S/4HANA on premise as outlined in SAP Note [2360258](https://support.sap.com), installation of BI_CONT is a necessary prerequisite.

**Content Bundle:** The only supported Content Bundle in SAP S/4HANA system is /ERP/SFIN_PLANNING (Simplified Financials Planning). All other content bundles are not supported in SAP S/4HANA.

**Standalone SAP Netweaver BW**

Only the SAP HANA-optimized Business Content shipped with the software component version BI_CONT 7.57 (BI Content 7.57; see also SAP Note [153967](https://support.sap.com)) is supported for the whitelisted DataSources delivered with SAP S/4HANA (as specified in SAP Note [2500202](https://support.sap.com)). For further details on SAP HANA-Optimized Business Content please check SAP Note [2548065](https://support.sap.com).

**Standalone SAP BW/4HANA**

All content included in the BW/4HANA Content Basis (software component BW4CONTB) and BW/4HANA Content (software component BW4CONT) is supported for the whitelisted DataSources delivered with SAP S/4HANA (as specified in SAP Note [2500202](https://support.sap.com)). For further details on SAP HANA-Optimized Business Content please check SAP Note [2548065](https://support.sap.com).

**Other Terms**

BI_CONT, BI_CONT_XT, BW4CONTB, BW4CONT, SAP BW, SAP BW/4 HANA, SAP_BW, DW4CORE, Business Content, SAP Netweaver, S/4HANA

**2.22 S4TWL - Social Intelligence**

Application Components: CA-EPT-SMI
Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2323655</td>
<td>Social Intelligence Non-availability</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Social Intelligence data harvesting features were provided in ERP EhP7 and EhP8. Customer could harvest data from social sources like Twitter, Facebook, etc. After text analysis using HANA, the sentiment data used to be stored in underlying BS_FND tables. Consent Management and Archiving features were also provided.

These features will not be available in S/4 from the initial release

Solution

As of now, there is no alternative for this solution in S/4 HANA

2.23 S4TWL - Custom Fields

Application Components: BC-SRV-APS-EXT-FLD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2320132</td>
<td>S4TWL - Custom Fields</td>
</tr>
</tbody>
</table>

Symptom

You have done a system conversion to SAP S/4HANA. Now, the following item of the SAP S/4HANA transition worklist is applicable if you have extension fields and want to use them in:

- SAP Fiori apps
- CDS-based analytical reports
- Adobe-based print forms
- Email templates
- OData services

**Reason and Prerequisites**

You have set up the adaptation transport organizer. For more information, see [Configuration Information: Adaptation Transport Organizer](#).

**Solution**

**Description**

With SAP S/4HANA, custom fields can be managed with the SAP Fiori app Custom Fields and Logic. This app, together with other SAP Fiori apps, can be used to add custom fields to OData services, CDS views, or SAP Fiori apps, for example.

**Business Process-Related Information**

In the SAP GUI transaction SCFD_EUI, existing custom fields can be enabled for use in the app Custom Fields and Logic. In some cases, existing fields need to be prepared in advance.

For more information, see [Enabling Custom Database Fields for Usage in SAP Fiori Applications](#).

**Required and Recommended Actions**

Use the transaction SCFD_EUI to enable your existing custom fields for use in the app Custom Fields and Logic, and to see preparation steps, if necessary.

For more information, see [Enabling Custom Database Fields for Usage in SAP Fiori Applications](#).

**Other Terms**

Extension, Custom, Fields

### 2.24 S4TWL - Side Panel functionality in SAP S/4HANA (on-premise)

Application Components: FI

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA (on-premise). You use Side Panels in the SAP Business Client and would like to understand the conversion behavior.

Reason and Prerequisites

SAP S/4HANA (on-premise) comes with a new UI product. The S/4HANA (on-premise) UI product is not the successor of any Business Suite product and delivers a set of applications which is from a technical and scope perspective independent from any previous Business Suite UI product. The SAP Business Client Side Panel functionality is available in S/4HANA (on-premise). Some of the Business Suite Side Panel CHIPs (Collaborative Human Interface Part) are no longer available in S/4HANA and the delivered CHIP catalog is adjusted accordingly.

A CHIP (Collaborative Human Interface Part) is an encapsulated piece of software used to provide functions in collaboration with other CHIPs in a Web Dynpro ABAP Page Builder page or side panel. All available CHIPs are registered in a library (CHIP catalog). From a technical point of view, CHIPs are Web Dynpro ABAP components that implement a specific Web Dynpro component interface.


Solution

The new program paradigm in S/4HANA and the consumption of functionality via SAP Fiori results in an adjustment of the delivered CHIP catalog for the SAP Business Client Side Panel functionality.

The following SAP Business Client Side Panel CHIPs are no longer available:

<table>
<thead>
<tr>
<th>CHIP Name</th>
<th>CHIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSSP_LPD_FI_AP</td>
<td>Accounts Payable Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPD_FI_AR</td>
<td>Accounts Receivable Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPD_FI_AA</td>
<td>Asset Accounting Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPD_CO_OM_CCA</td>
<td>Cost Center Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPD_FI_GL</td>
<td>General Ledger Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPD_CO_OM_OPA</td>
<td>Internal Order Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPD_PM_OM_OPA</td>
<td>Maintenance / Service Order Reporting (Links)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSSP_LPDP_CO_PC</td>
<td>Product Cost Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_LPDP_FI_GL_PRCTR</td>
<td>Profit Center Reporting (Links)</td>
</tr>
<tr>
<td>BSSP_FI_AA_POSTED_DEPREC</td>
<td>Asset Accounting: Posted Depreciation (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_CO_OM_CC_ACT_PLAN_AGGR</td>
<td>Cost Center: Cumulative Actual/Planned Costs (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AR_TOTALS</td>
<td>Cost Center Balance: Totals (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AR_DUE_ANALYSIS</td>
<td>Customer Due Date Analysis (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AR_DUE_FORECAST</td>
<td>Customer Due Date Forecast (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AR_OVERDUE</td>
<td>Customer Overdue Analysis (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_CO_OM_IO_ACT_PLAN_AGGR</td>
<td>Internal Order: Cumulative Actual/Planned Costs (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_CO_PC_MAT_ACT_PLAN_AGGR</td>
<td>Material: Aggregated Actual / Planned Costs (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_GR_IR_GOODS_RECEIPT</td>
<td>Purchase Order History: Goods Receipt (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_GR_IR_INVOICE_RECEIPT</td>
<td>Purchase Order History: Invoice Receipt (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_GR_IR_OPEN_ITEM</td>
<td>Purchase Order: Open Items (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AP_TOTALS</td>
<td>Vendor Balance Totals (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AP_DUE_ANALYSIS</td>
<td>Vendor Due Date Analysis (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AP_DUE_FORECAST</td>
<td>Vendor Due Date Forecast (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AP_OVERDUE</td>
<td>Vendor Overdue Analysis (Reports (Display as Form / List))</td>
</tr>
<tr>
<td>BSSP_FI_AA_POSTED_DEPREC_C</td>
<td>Asset Accounting: Posted Depreciation (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_CC_PERIOD_BD_C</td>
<td>Cost Center: Breakdown Actual/Planned Costs by Period (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_CC_ACT_PLAN_AGGR_C</td>
<td>Cost Center: Cumulative Actual/Planned Costs (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_PERIOD_C</td>
<td>Customer Balance: Period Drilldown (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_TOTALS_C</td>
<td>Customer Balance: Totals (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_DUE_ANALYSIS_C</td>
<td>Customer Due Date Analysis (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_DUE_FORECAST_C</td>
<td>Customer Due Date Forecast (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_OVERDUE_C</td>
<td>Customer Overdue Analysis (Reports (Display as Chart))</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>---------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>BSSP_FI_GL_ACC_BALANCE_C</td>
<td>G/L Account Balance (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_IO_PERIOD_BD_C</td>
<td>Internal Order: Actual/Planned Costs by Period (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_IO_ACT_PLAN_AGGR_C</td>
<td>Internal Order: Cumulative Actual/Planned Costs (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_CO_PC_MAT_ACT_PLAN_AGGR_C</td>
<td>Material: Aggregated Actual / Planned Costs (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_CO_PC_MAT_PERIOD_BD_C</td>
<td>Material: Breakdown Actual/Planned Costs by Period (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_PERIOD_C</td>
<td>Vendor Balance: Period Drilldown (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_TOTALS_C</td>
<td>Vendor Balance Totals (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_DUE_ANALYSIS_C</td>
<td>Vendor Due Date Analysis (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_DUE_FORECAST_C</td>
<td>Vendor Due Date Forecast (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_OVERDUE_C</td>
<td>Vendor Overdue Analysis (Reports (Display as Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AA_POSTED_DEPREC_C2</td>
<td>Asset Accounting: Posted Depreciation (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_CC_PERIOD_BD_C2</td>
<td>Cost Center: Breakdown Actual/Planned Costs by Period (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_CC_ACT_PLAN_AGGR_C2</td>
<td>Cost Center: Cumulative Actual/Planned Costs (Reports (Display as HTML5 Chart))</td>
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<tr>
<td>BSSP_FI_AR_PERIOD_C2</td>
<td>Customer Balance: Period Drilldown (Reports (Display as HTML5 Chart))</td>
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<tr>
<td>BSSP_FI_AR_TOTALS_C2</td>
<td>Customer Balance: Totals (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_DUE_ANALYSIS_C2</td>
<td>Customer Due Date Analysis (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_DUE_FORECAST_C2</td>
<td>Customer Due Date Forecast (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AR_OVERDUE_C2</td>
<td>Customer Overdue Analysis (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_GL_ACC_BALANCE_C2</td>
<td>G/L Account Balance (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_IO_PERIOD_BD_C2</td>
<td>Internal Order: Actual/Planned Costs by Period (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_CO_OM_IO_ACT_PLAN_AGGR_C2</td>
<td>Internal Order: Cumulative Actual/Planned Costs (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_CO_PC_MAT_ACT_PLAN_AGGR_C2</td>
<td>Material: Aggregated Actual / Planned Costs (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_CO_PC_MAT_PERIOD_BD_C2</td>
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</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor Code</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>BSSP_FI_AP_PERIOD_C2</td>
<td>Vendor Balance: Period Drilldown (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_TOTALS_C2</td>
<td>Vendor Balance Totals (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_DUE_ANALYSIS_C2</td>
<td>Vendor Due Date Analysis (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_DUE_FORECAST_C2</td>
<td>Vendor Due Date Forecast (Reports (Display as HTML5 Chart))</td>
</tr>
<tr>
<td>BSSP_FI_AP_OVERDUE_C2</td>
<td>Vendor Overdue Analysis (Reports (Display as HTML5 Chart))</td>
</tr>
</tbody>
</table>

Other Terms

CHIPs, Side Panel for Business Suite, S/4HANA (on-premise), Conversion

2.25 S4TWL - Changed Interfaces

Application Components: XX-SER-REL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2259818</td>
<td>RFC enabled Function Modules with incompatible signature change compared to its version in ERP are blocked from external access.</td>
</tr>
</tbody>
</table>

Symptom

You are using SAP S/4HANA. Certain RFC enabled Function Modules have been blocked from external access using RFC Unified Connectivity Filter Services.

Reason and Prerequisites

Many RFC Function Modules that were delivered with ERP, are now available in SAP S/4HANA delivering same functionality and services. RFC Function Modules can be categorized by their "Release"-Status: "Released" implies an RFC enabled Function Module can be called from any remote SAP or non SAP Application. "Not Released" implies an RFC Function Module is not accessible by customer but can be called from any remote SAP application and hence used internally for cross application communication.
In SAP S/4HANA, some small percentage of RFC enabled Function Modules (with either "Released" and "Not Released" status) have had their signature modified in an incompatible way, compared to the signature of their version in ERP. RFC enabled Function Module use memory copy to transfer parameters between the source and target in most cases and thus any incompatible change to the signature of the RFC enabled Function Module may lead to the target receiving incomplete or garbled data as parameter value.

- Using these Function Modules across-system may harm the data integrity of your SAP S/4HANA System, since the caller might still use the old signature.
- If all callers of such a Function Module have been explicitly adapted to the changed signature, and if there are no un-adapted calls from your landscape, then using such a module is possible.
- If external non-SAP systems provided by 3rd parties want to use such a Function Module, then ask them explicitly, if they have adapted their coding to the new signatures.

Additionally, some RFC enabled Function Modules have been marked as "Obsolete" and hence they are also blocked from external access.

An RFC Enabled Function Module that has been blocked from external or remote access can be verified by remotely calling this RFC Enabled Function Module on your SAP S/4HANA system and receiving a short dump, as described in the note #2249880.

**Solution**

**RFC Blacklist**

SAP uses a feature called RFC Blacklist, whereby, those remote enabled function modules that need to be restricted from being called by external RFC Clients, are added a RFC Blacklist object, which has the same identifity as a package. SAP releases one blacklist package per S/4HANA OP release. The names of the RFC Blacklist packages are as follows:

**S/4HANA OP Release # | Blacklist Package**

S/4HANA OP 2021 | ABLMUCON2021
S/4HANA OP 2020 | ABLMUCON2020
S/4HANA OP 1909 | ABLMUCON1909
S/4HANA OP 1809 | ABLMUCON1809
S/4HANA OP 1709 | ABLMUCON1709
S/4HANA OP 1610 | ABLMUCON1610SP00

View the contents of RFC Blacklist

The RFC blacklist and its contents can be viewed from a program
RS_RFC_BLACKLIST_COMPLETE. This program can be run on any S/4HANA OP
instance. Upon executing this program you would be asked to provide the package name
of the blacklist. For example, on an S/4HANA OP 1909 instance, provide the package
name is ABLMUCON1909 & the names of blacklisted remote enabled Function
Modules would appear in the result.

Applies to S/4HANA 1610 OP and above.

Override the Blacklist on your landscape

For any reason, you wish to unblock the access of any RFC enabled Function Module by
an external RFC client, then please follow the instructions mentioned in the note
#2408693.

Other Terms

RFC UCON, RFC Unified Connectivity, Signature Incompatibility

2.26 S4TWL - SAP Support Desk ($$-Messages)

Application Components: CA-NO, QM-QN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td><strong>2852082</strong></td>
<td>S4TWL – existence check for basis notification and $$ notification</td>
</tr>
</tbody>
</table>

Symptom

You use $$ notifications and basic notifications that were created in table
DNOD_NOTIF. The function module DNO_OW_EXTERN_SEND_NOTIF_2_BC,
which was used to create basic notifications, is no longer supported in SAP S/4HANA.

Reason and Prerequisites
Renewal

Solution

Business value

Instead of the $$ notifications and basis notifications, SAP Support is available via SAP Support Portal at https://support.sap.com.

Required and recommended action(s)

Check whether an entry has been defined in the table DNOD_NOTIF.

Other Terms

$$, $$ notifications, support notifications, enter support notifications, DNOD_NOTIF, function module DNO_OW_EXTERN_SEND_NOTIF_2_BC, DNO_OW_EXTERN_SEND_NOTIF_2_BC

2.27 S4TWL - Changes in Process Observer

Application Components: CA-EPT-POC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2412899</td>
<td>Changes in Process Observer when moving from SAP Business Suite to S/4HANA OP</td>
</tr>
</tbody>
</table>

Symptom

A few changes occurred in the implementation of Process Observer in S/4HANA, which may affect you when moving from SAP Business Suite to S/4HANA OP version.

1) Business Function FND_EPT_PROC_ORCH_1 for Process Observer is always on

2) Improved IMG structure in S/4HANA

3) Name change for background job for event processing

4) Authorization check for maintaining process definitions enabled
5) Predecessor determination by document relationship browser (DRB) is off by default

**Solution**

1) **Business Function FND_EPT_PROC_ORCH_1:**

In order to use Process Observer in S/4HANA, there is no need to activate FND_EPT_PROC_ORCH_1 any more, as it is set to 'always on' in the s/4HANA systems. The remaining steps to activate process observer is:

- activation setting: via IMG or transaction POC_ACTIVE
- scheduling of background job for event processing: via IMG or transaction POC_JOB_SCHEDULER

2) **Improved IMG structure for Process Observer:**

Please see note 2461687 to find information about the changes to the IMG structure of Process Observer, and to relocate the activities.

3) **Background job for event processing:**

The name of the running background job for event processing was changed from 'POC_JOB_<client>' in SAP Business Suite to 'SAP_POC_PROCESS_EVENT_QUEUES'. This may be relevant, for example when managing the job via SM37.

4) **Authorization check for maintaining process definitions:**

The authorization check for maintaining process definitions via IMG or transaction POC_MODEL was not activated by default SAP Business Suite. In S/4HANA the authorization object POC_DEFN is checked when trying to create, change or delete process definitions. Make sure the corresponding user roles in S/4HANA contain this authorization object with the appropriate settings.

5) **Predecessor determination via DRB:**

In your SAP Business Suite implementation you may be relying on predecessor determination for events using DRB, if the following applies:

- you are using BOR events for monitoring
- different business object types are part of one process definition
- you did not implement or configure a specific predecessor determination for your objects (like referencing an attribute in BOR event, or BAdI implementation)

In order to activate the predecessor determination via DRB again in S/4HANA do the following: enter the relevant BOR events in the following IMG activity:

<...> Process Observer - Application Instrumentation - BOR Event Instrumentation - Enable Data Relationship Browser (DRB) Usage

**Other Terms**

Process Performance Monitoring in S/4HANA

### 2.28 ABAP4TWL - Removal of Transceiver Integration

**Application Components:** CA

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2879911</td>
<td>Package BALI is missing</td>
</tr>
</tbody>
</table>

**Symptom**

The package BALI covering transceiver functionality of R/3 up-to release 6.10 is missing.

**Reason and Prerequisites**

Transceiver functionality is discontinued.

**Solution**

The transceiver functionality has been withdrawn and has been replaced with new interfaces, see SAP Note 176927.

**Other Terms**

Programs CONFQMID, RCONFCC1, RCONFCC2, RCONFCC3, RCONFCC4, RCONFCC5, SAPBAL10, SAPCDUP1, SVCTKANA

Function group TRAR
Business object types
IDOCCONF11, IDOCCONF21, IDOCCONF22, IDOCCONF31, IDOCCONF32, IDOC
CONF41, IDOCCONF42

Workflow tasks TS00200089,
TS00200090, TS00200096, TS00200097, TS00200098, TS00200099, TS00200101

2.29 S4TWL - BI Extractors in SAP S/4HANA

Application Components: XX-SER-REL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2500202</td>
<td>S4TWL - BW Extractors in SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

Customers considering moving to SAP S/4HANA (on premise) seek information whether
BW extractors (aka data sources) known form SAP ERP still work, to be able to evaluate
the potential impact on the BW environment when moving to SAP S/4HANA. To meet
this requirement, SAP reviewed the status and the attached list (MS Excel document)
provides the information that we have per extractor. The results are valid from SAP
S/4HANA 1709 (on premise) until further notice or otherwise and in most cases apply to
SAP S/4HANA 1610 and SAP S/4HANA 1511 as well (see respective flags in attached
MS Excel document).

Reason and Prerequisites

Parts of this information are already available in CSS and can be found through 2333141
- SAP S/4HANA 1610: Restriction Note. The status of the extractors is collected in one
list (the attached MS Excel document), see the attached MS Powerpoint document for
information how the list is typically used. Not all extractors that are technically available
in SAP S/4HANA are covered, SAP is planning to provide clarifications for additional
extractors and share new versions of the list via this note. Hence it is recommended to
review this note for updates.

The information in this file is dated as of 10.09.2018. Please acknowledge that S/4HANA
functionality is set forth in the S/4HANA Feature Scope Description. All business
functionality not set forth therein is not licensed for use by customer.
Please note that extractors in the namespace 0BWTC*, 0TCT* and 8* are related to the "Embedded BW" that is offered as a technology component within the S/4HANA software stack. They are all not explicitly whitelisted in this SAP Note as they are not part of the delivered Business Content by the S/4HANA Lines of Business but can be used for extraction.

- **0BWTC*** and **0TCT*** are extractors providing technical statistical information from the Embedded BW such as query runtime statistics or data loading statistics.
- **8*** are **Export DataSources** for transferring business data from InfoProviders of the “Embedded BW” system to a target system
  - For a SAP BW target systems this is achieved by the **SAP Source System** type
  - For a data transfer via the **ODP Source System** type (only option in SAP BW/4HANA target system) these Export DataSources are obsolete and invisible. Instead, the ODP-BW context is used. For more information on Operational Data Provisioning see the **ODP FAQ document**.

For more information and positioning on the "Embedded BW" see: [https://www.sap.com/documents/2015/06/3ccee34c-577c-0010-82c7-eda71af511fa.html](https://www.sap.com/documents/2015/06/3ccee34c-577c-0010-82c7-eda71af511fa.html)

For more information on partner registered data sources and to find partner details from partner namespaces, please create a message on component XX-SER-DNSP.

This is a collective note, containing information of several industries and areas. In case issues arise with extractors listed in the Excel, or missing extractors, please do raise an incident on the APPLICATION COMPONENT of the respective EXTRACTOR. This is the only way to ensure that your incident reaches the responsible desk in the shortest time. You can find this in column E, 'Appl.component' in the attached excel document. Do not use the component from this note. Thank you!

### Solution

Details can be found in the respective note per area:
<table>
<thead>
<tr>
<th>Item Area - Line of Business</th>
<th>Note number for details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Management</td>
<td>2299213 - Restrictions for BW-Extractors in S/4HANA in the Enterprise Asset Management domain (EAM)</td>
</tr>
<tr>
<td>Business Process Management</td>
<td>2796696 - Restrictions for BW extractors relevant for S/4HANA as part of SAP S/4HANA, on-premise edition 1709 and above</td>
</tr>
<tr>
<td>Customer Services</td>
<td>2533548 - Restrictions for BW-Extractors in S/4HANA in the CS (Customer Service) area</td>
</tr>
<tr>
<td>Enterprise Portfolio and Project Management</td>
<td>2496759 - Restrictions for BW extractors relevant for S/4HANA in the area of Enterprise Portfolio and Project Management</td>
</tr>
<tr>
<td>Financials</td>
<td>2270133 - Restrictions for BW extractors relevant for S/4HANA Finance as part of SAP S/4HANA, on-premise edition 1511</td>
</tr>
<tr>
<td>Flexible Real Estate</td>
<td>2270550 - S4TWL - Real Estate Classic</td>
</tr>
<tr>
<td>Global Trade</td>
<td>-</td>
</tr>
<tr>
<td>Globalization Services Finance</td>
<td>2559556 - Restrictions for BW extractors in Financial Localizations relevant for S/4HANA Finance as part of SAP S/4HANA, on-premise edition 1511</td>
</tr>
<tr>
<td>Human Resources</td>
<td>-</td>
</tr>
<tr>
<td>Incident Management and Risk Assessment</td>
<td>2267784 - S4TWL - Simplification in Incident Management and Risk Assessment</td>
</tr>
<tr>
<td>Master Data</td>
<td>2498786 - Data Sources supported by Central Master Data in S/4HANA</td>
</tr>
<tr>
<td></td>
<td>2576363 - Data Sources supported by Master Data Governance in S/4HANA</td>
</tr>
<tr>
<td>Procurement</td>
<td>2504508 - Restrictions for BW Extractors relevant for S/4 HANA Procurement as part of SAP S/4HANA, on premise edition 1709 and above</td>
</tr>
<tr>
<td>Produce</td>
<td>2499728 - Restrictions for BW extractors relevant for S/4HANA in the area of Production Planning and Detailed Scheduling</td>
</tr>
<tr>
<td></td>
<td>2499716 - Restrictions for BW extractors relevant for S/4HANA in the area of Production Planning and Control</td>
</tr>
<tr>
<td></td>
<td>2499589 - Restrictions for BW extractors relevant for S/4HANA in the area of Quality Management</td>
</tr>
<tr>
<td></td>
<td>2499310 - Restrictions for BW extractors relevant for S/4HANA in the area of Inventory Management</td>
</tr>
<tr>
<td>Sales and Distribution</td>
<td>2498211 - Restrictions for BW extractors relevant for S/4HANA Sales as part of SAP S/4HANA, on-premise edition 1709</td>
</tr>
<tr>
<td>Supply Chain - Extended Warehouse Management</td>
<td>2552797 List of BI Data Sources used in EWM</td>
</tr>
<tr>
<td></td>
<td>2382662 List of BI Data Sources from SCM Basis used in EWM</td>
</tr>
<tr>
<td>Supply Chain - Transportation Management</td>
<td>All Data Sources working and whitelisted, no separate note exists</td>
</tr>
<tr>
<td>Master data governance for Finance</td>
<td>All Data Sources working and whitelisted, no separate note exists</td>
</tr>
<tr>
<td>Item Area - Industry</td>
<td>Note number for details</td>
</tr>
<tr>
<td>------------------------------</td>
<td>-----------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>DIMP Automotive</td>
<td></td>
</tr>
<tr>
<td>Defense and Security</td>
<td>2544193 - Restrictions for BW extractors relevant for S/4HANA in the area of Defense &amp; Security</td>
</tr>
<tr>
<td></td>
<td>2273294 - S4TWL - BI content, Datasources and Extractors for DFPS</td>
</tr>
<tr>
<td>Financial Services</td>
<td>2543469 - &quot;SAP for Banking&quot;: SAP extractors in connection with &quot;SAP S/4HANA on-premise edition&quot;</td>
</tr>
<tr>
<td></td>
<td>2546102 - &quot;SAP for Insurance&quot;: SAP extractors in connection with &quot;SAP S/4HANA on-premise edition&quot;</td>
</tr>
<tr>
<td>Higher Education</td>
<td>-</td>
</tr>
<tr>
<td>IS Healthcare</td>
<td>-</td>
</tr>
<tr>
<td>IS Utilities</td>
<td>2270505 - S4TWL - IS-U Stock, Transaction and Master Data Statistics (UIS, BW)</td>
</tr>
<tr>
<td>Oil and Gas</td>
<td></td>
</tr>
<tr>
<td>Public Sector Collection and Disbursement (PSCD)</td>
<td>All Data Sources working and whitelisted, no separate note exists</td>
</tr>
<tr>
<td>Public Sector Management (PSM)</td>
<td>2556359 - Restrictions for BW extractors relevant for S/4HANA in the area of Public Sector Management</td>
</tr>
<tr>
<td>IS Retail</td>
<td>2543543 - Restrictions for BW extractors relevant for S/4HANA in the area of Retail</td>
</tr>
</tbody>
</table>

The classification scheme is:

<table>
<thead>
<tr>
<th>Current status</th>
<th>Status for Publication</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Whitelisted</td>
<td>DS working - no restrictions</td>
<td>DataSource is available with S/4 and works without any restrictions compared to ERP</td>
</tr>
<tr>
<td></td>
<td>DS working – regeneration of extractor and check of BW content based on this DS</td>
<td>DataSource is working, because of data model changes, it is</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Status</th>
<th>DataSource Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>is needed</td>
<td></td>
<td>recommended to check the upward dataflow.</td>
</tr>
<tr>
<td>Not Whitelisted</td>
<td>DS working - restrictions</td>
<td>DataSource is available with S/4 but works with noteworthy restrictions; e.g. not all fields are available</td>
</tr>
<tr>
<td></td>
<td>DS not working - alternative exists</td>
<td>DataSource is not working with S/4 but an alternative exists, such as a new extractor, CDS view</td>
</tr>
<tr>
<td></td>
<td>DS not working - alternative planned</td>
<td>DataSource is not working with S/4 but equivalent available on roadmap for future release</td>
</tr>
<tr>
<td>Deprecated</td>
<td>DS obsolete</td>
<td>DataSource is obsolete - legacy extractors</td>
</tr>
<tr>
<td></td>
<td>DS not working - no alternative exists</td>
<td>DataSource is not working with S/4 but no alternative exists</td>
</tr>
<tr>
<td>Generated Data Source</td>
<td>DS working - no restrictions</td>
<td>Because of the nature of the extractors, being generated in the system, we cannot whitelist those in general. Experience so far showed that they should be working without restrictions.</td>
</tr>
<tr>
<td>Not relevant for BW extraction</td>
<td>DS not relevant</td>
<td>Datascource is available in ROOSOURCE, however, not to be used for extraction by BW.</td>
</tr>
</tbody>
</table>

### Other Terms

BW, Extractors, Datasources, SAP S/4HANA

### 2.30 S4TWL - MRS Enhancements for Material Master

Application Components: CA-MRS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2493452</td>
<td>MRS enhancements to Material master</td>
</tr>
</tbody>
</table>

### Symptom
SAP Multiresource Scheduling 1.0 for SAP S/4HANA does not support the material master enhancement for requirements profiles.

If you have used this functionality in previous SAP Multiresource Scheduling releases and would like to store the data before they might be lost during SAP Multiresource Scheduling 1.0 for SAP S/4HANA installation, please execute the steps describe in the manual activities attached to this note.

**Reason and Prerequisites**

Not supported functionality in SAP Multiresource Scheduling 1.0 for SAP S/4HANA.

**Solution**

Follow the steps describe in the manual activity.

**Other Terms**

Master Check, S/4 System Conversion, Material Master, MRS.

### 2.31 S4TWL - Change of Situation Types in Situation Handling

**Application Components:** CA-SIT

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3324958</td>
<td>SIC for ZDM Upgrade Check in Situation Handling</td>
</tr>
</tbody>
</table>

**Symptom**

You execute a system conversion to S/4HANA, On-Premise - Edition 2023 or higher and are using the Situation Handling Framework - extended.

**Reason and Prerequisites**

You use at least one of the following apps:

1. Manage Situation Types : Extended
2. Manage Situation Scenarios.
3. Manage Situation Objects

Solution

The Simplification Item Check checks, if the requirements before the upgrade are met and all required SAP notes (currently SAP Note 3271299) have been implemented to ensure there is no concurrent access or attempt to write to the underlying tables during the data conversion.

If this is not the case the Software Update Manager (SUM) will be asking to install the required SAP notes before proceeding,

The checks performed by Simplification Item Check are

1. Check if any of the apps: Manage Situation Types- Extended, Manage Situation Scenarios or Manage Situation Objects are active in the system.
   If this is not the case, the implementation of the Simplification Item Check is not required.
2. Check if the required SAP Note 3271299 is implemented in the system. The check is done by checking the availability of the interface IF_SIT2_CHECK_ZDM_RUNNING that gets implemented by the SAP Note.
   1. If the check is successful, it's ensured there is no concurrent access or attempt to write to the underlying tables during the data conversion and the Software Update Manager (SUM) can proceed with the system upgrade
   2. If the check is not successful, the SUM is aborted, and it cannot proceed with the system upgrade. SAP Note 3271299 needs to be implemented to proceed with the upgrade.

Required and Recommended Action(s):

After implementing the SIC (Simplification Item Check) : If the consistency check fails and the update in the Software Update Manager (SUM) is aborted, please implement the SAP Note 3271299 to ensure that all requirements before the upgrade are implemented and the system upgrade can happen properly.

Other Terms

Situation Handling; Manage Situation Types - Extended; Manage Situation Scenarios, Manage Situation Objects
2.32 ABAPTWL - Change of workflow system user and workflow system jobs

Application Components: BC-BMT-WFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2568271</td>
<td>Change of workflow system user and workflow system jobs with S/4HANA On-Premise 1709</td>
</tr>
</tbody>
</table>

Symptom

You upgraded your system to S/4HANA On-Premise 1709, 1809, 1909, 2020, 2021 (or following releases) from a release prior S/4HANA On-Premise 1709. In "Automatic Workflow Customizing", transaction SWU3 you notice the status is not green for "Edit Runtime Environment".

Reason and Prerequisites

Change of workflow system user and workflow system jobs with S/4HANA On-Premise 1709.

Solution

Description

Starting with S/4 Hana OnPremise 1709 the workflow system user and workflow system jobs changed. The workflow system user is called SAP_WFRT now instead of WF-BATCH. The workflow system jobs start with SAP_WORKFLOW now and are scheduled automatically by "Technical Job Repository", transaction SJOBREPO.

Starting with S/4 Hana OnPremise 1809 the workflow system jobs are scheduled under the user, under which the system jobs of Technical Job Repository run. This might be a different user than SAP_WFRT.

Business-Process-Related Information

SAP Business Workflow does not continue after upgrade.

Required and Recommended Action(s)
In case you upgraded from an older release to S/4HANA OnPremise 1709 you need to perform the following steps, in S/4 HANA OnPremise 1809, 1909 and 2020 only steps 2 to 6 are relevant:

1. Deschedule the "old" workflow jobs in all system clients, in case these are still scheduled from the time before the upgrade. These are the following jobs:
   - SWWDHEX
   - SWWERRE
   - SWWCOND
   - SWWWIM
   - SWEQSRV
   - SWWCLEAR
   If you upgrade to S/4 HANA OnPremise 1809, these jobs are automatically descheduled.

2. Make sure that user SAP_WFRT exists in the system and has role SAP_BC_BMT_WFM_SERV_USER_PLV01 assigned.

3. Check role SAP_BC_BMT_WFM_SERV_USER_PLV01 e.g. in transaction PFCG:
   - Ensure that there is a green traffic light on tab "Authorizations". Regenerate the profile if necessary.
   - Afterwards check the traffic light on the tab "User". Run the "User Comparison" if the traffic light is not green.

4. In "Technical Job Repository" (transaction SJOBREPO) the automatic scheduling of jobs must be switched on. Note 2190119 - Background information about S/4HANA technical job repository - describes the prerequisites needed.

5. Wait for the next run of system job "R_JR_BTCJOBS_GENERATOR" for the Technical Job Repository. It runs by default every hour and schedules all new workflow system jobs starting with SAP_WORKFLOW.
   After the workflow jobs are scheduled, you will see green lights in transaction SWU3.

6. Job SAP_WORKFLOW_RESTART is automatically scheduled in the system. It runs once a day and restarts all workflows in error status automatically. These are workflows, you can find in transaction SWPR. If you do not want these workflows to be restarted, please deactivate the job in transaction SJOBREPO.

Other Terms

SJOBREPO, SAP_WFRT, SWU3, 1709, 1809, 1909, 2020, 2021

2.33 ABAPTWL - Change of authorization checks SAP Business Workflow

Application Components: BC-BMT-WFM
Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2979517</td>
<td>ABAPTWL - Change of authorization checks SAP Business Workflow</td>
</tr>
</tbody>
</table>

**Symptom**

After an upgrade of your system you face authorization issues in reports or transactions of SAP Business Workflow. Especially this concerns helper reports or transactions like for example RSWD_MAINTAIN_USER_ATTR or RSWEQADMIN.

**Reason and Prerequisites**

Originally the concerned reports and transactions have been protected by an authorization check basing on the authorization group of the report. This check uses authorization object S_PROGRAM, which does not support checking the activity of a user action; that mean, no clear separation between display and change actions is possible.

**Solution**

**Description**

You use in your system helper reports or transactions from SAP Business Workflow.

**Business-Process-Related Information**

If you want to use the helper reports and transactions further, you have to change the authorizations of the user, which should be allowed to do so.

**Required and Recommended Action(s)**

From SAP_BASIS 756 onwards the authorization check by authorization object S_PROGRAM has been replaced by an authorization check on authorization object S_WF_ADM. This new authorization object has two authorization fields:

- WF_GROUP
- ACTVT

To a group all reports/transactions are assigned caring about the same topic. For example reports RSWF_SHOW_SWW_WIREGISTER (Registered Actions for Work Items) and RSWEQADMIN (Event Queue Administration) are both assigned to group 'EVENT'.
With the activity you can differentiate the actions, which are allowed to the user. For example by report RSWF_SHOW_SWW_WIREGISTER you can display the registered actions for work items, but you cannot change them. Therefore the display-activity is checked. But in report RSWEQADMIN several actions can be triggered, therefore it checks on the execute-activity.

Your roles for the user needing these reports or transactions need to be adapted accordingly.

Other Terms

Authorization objects:

S_WFADM, S_PROGRAM

Reports:

RHWFCOPL, LSWDDF32, LSWEQBROWSERF01, RHXWOSHw, RSLEI_TRC, RSWW_MOVE_TO_HOT, RSWD_CONFIG_INITIATOR, RSWD_MAINTAIN_USER_ATTR, RSWD_REPLICATE_FROM_9999, RSWDACT0, RSWDACTIVATE, RSWDAHOCDEL, RSWDCHECKALL, RSWDCOR8, RSWDFXSTRT, RSWDLOG, RSWDSTRT, RSWDVER9, RSWDVERCNT, RSWE_ELIM_INCONSIST, RSWECONSCOUP, RSWEDELCPLG, RSWEENABLEFI, RSWEINST, RSWEINSTVMAINT, RSWELCFG, RSWELCFG2, RSWELOGA, RSWELOGD, RSWELOGS, RSWELTOGGLE, RSWEQADMIN, RSWEQDELETE, RSWEQMAINTAIN, RSWEQSRV, RSWEQSRV_ASYNC, RSWEQSRVDELETE, RSWEQSRVSCHEDULE, RSWF_ADD_OM_EXIT_CLASS, RSWF_ADMSUSPEND, RSWF_ADM_SWWWIDTH, RSWF_ALM_DELETE_MONITOR, RSWF_ANALYZE_RESUBMIT, RSWF_BAMADM, RSWF_CCMS_MONITOR_TEST, RSWF_CHECK_CONTAINER_STRUCTS, RSWF_CLEAR_SECMETHOD_MEMORY, RSWF_CNT_BOR_ELEM_REPLACE, RSWF_CNT_CHECK_STRUCTURE, RSWF_CNT_COMPARE, RSWF_CNT_DEL_LOC_STRUCTURE, RSWF_CNT_EDIT, RSWF_CNT_JOB_SHMEMUPD_DELETE, RSWF_CNT_JOB_SHMEMUPD_INSERT, RSWF_CNT_MAINTENANCE, RSWF_CNT_PREPARE_STRUCTURE, RSWF_CNT_TEST_CONVERSION_XML, RSWF_CREATE_WITEXT, RSWF_CRL_BUILDER, RSWF_DATABASE_UPGRADE, RSWF_DELETE_CONTAINER_ELEMENT, RSWF_DISPLAY_APPL_LOG, RSWF_FLEX_DEMO_CHECK, RSWF_FLEX_DEMO_CHECK_F01, RSWF_FLEX_DEMO_CHECK_O01, RSWF_FLEX_DEMO_CHECK_TOP, RSWF_FLEX_SWI2_FREQ, RSWF_FLEX_SWPINTRO, RSWF_FLEX_UTL_PROCESS_VIEW, RSWF_FLEX_UTL_PROCESS_VIEW_F01, RSWF_FLEX_UTL_PROCESS_VIEW_F02,

RSWF_FLEX_UTL_PROCESS_VIEW_F03, RSWF_GET_FOOTPRINT,
RSWF_LOG_DISPLAY, RSWF_MANAGE_WORKFLOW_DAEMON,
RSWF_MIG_CNT_STRUCTS_INTERNAL, RSWF_MIG_CONTAINERSTRUCTS,
RSWF_MIG_TOPWIID, RSWF_MON_ACTIVATED_DEADLINES,
RSWF_MON_DATABASE_SIZE, RSWF_NOTIF_ACTIVATION,
RSWF_OUTPUT_MANAGEMENT, RSWF_POWL_CHECK_QUESTIONS,
RSWF_PUSH_NOTIF_EXECUTE_DEMO,
RSWF_PUSH_NOTIFICATION_EXECUTE, RSWF_RESTART_WORKFLOWS,
RSWF_SHOW_AGING_INCONSISTENCY,
RSWF_SHOW_EXT_CONFIGURATION, RSWF_SHOW_SWW_USRATT,
RSWF_SHOW_SWW_WIREGISTER, RSWF_SHOW_SWWLOGHIST,
RSWF_SHOW_SWWLOGHIST_TOOLEVEL, RSWF_SHOW_SWWWHEAD,
RSWF_SHOW_SWWWHEAD_TOOLEVEL, RSWF_SHOW_SWWWITEXT,
RSWF_SYSTEM_ACTIONS, RSWF_SYSTEM_CLEANUP,
RSWF_SYSTEM_DELAYED, RSWF_SYSTEM_SCHEDULER,
RSWF_SYSTEM_TEMPORARY, RSWF_TCM_MIGRATE_CUST_CONF_XPRA,
RSWF_TCM_MIGRATE_CUST_CONFIG, RSWF_TRC_BAM,
RSWF_UNIT_CHK_CONTAINER, RSWF_UNIT_CONFIGURATION,
RSWF_UNIT_MONITORING, RSWF_UTL_ENABLE_DEFAULT_TRACE,
RSWF_UTL_EXECUTE_ACTIONS, RSWF_WLC_WI_EVT_ADC,
RSWF_WLC_WI_EVT_ADC_F01, RSWF_WLC_WI_EVT_ADC_F02,
RSWF_XI_CACHE_RESET, RSWF_XI_REORG, RSWF_XI_SW2,
RSWF_XI_SWPC, RSWF_XI_SWPR, RSWF_XI_TEST_BULK,
RSWF_XI_UNPROCESSED_MSGS, RSWF_XI_UNSENT_MSGS,
RSWF_XI_UNSENT_MSGS_F01, RSWF_XI_WORKLOAD_TEST,
RSWFADM_CHECK_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM_CHECK_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM_CHECK_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM_CHECK_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM_CHECK_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM_CHECK_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM.Check_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM.Check_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM.Check_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM.Check_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
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RSWFADM.Check_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,
RSWFADM.Check_SWWWIDH, RSWFEVTLOG, RSWFEVTLOGDEL,

RSWUDI02, RSWUDI03, RSWUDI04, RSWUDI05, RSWUDI06, RSWUDI07, RSWUDI08, RSWUDI09, RSWUDI10, RSWUESIM, RSWUMMES, RSWUOBJEX, RSWUOBJEXBO, RSWUOCHECK, RSWUODEL, RSWUSETT, RSWUTR01, RSWUWIZBTE, RSWUWIZC, RSWUWIZLIS, RSWWW_ACTIVATE_MEMORY_DIFFTOOL, RSWWW_DAAG_AGING_RUN, RSWWW_DELETE_BINDEF, RSWWW_DELETE_SWWRUNMETH, RSWWW_DEST_SET_UNICODE, RSWWW_DROP_OBSOLETE_TABLES, RSWWW_EXEC_SUSPENDED_CALLBACK, RSWWW_EXEC_SUSPENDED_CANCEL, RSWWW_FILL_DEFGUID, RSWWW_FILL_USER_ATTR, RSWWW_MIG_FOOTPRINT, RSWWW_REORG_SWUSER, RSWWW_RUNTIME_MONITORING, RSWWW_STRAIGHTEN_SWW_REGISTER, RSWWW_STRAIGHTEN_FINAL_WRKFLWS, RSWWWARCL, RSWWWCLEAR, RSWWWCLEAR_DELETE, RSWWWCLEAR_INSERT, RSWWWCOND, RSWWWCOND_DELETE, RSWWWCOND_INSERT, RSWWWCOND_MON, RSWWWCOND_STRAIGHTEN_REGISTER, RSWWDEL TAB, RSWWDEX, RSWWDEX_DEBUG, RSWWDEX_DELETE, RSWWDEX_EXTENDED, RSWWDEX_INSERT, RSWWDEX_INTERNAL, RSWWDEX_XMB_INTERNAL, RSWWDEXHIN, RSWWEN, RSWWFR, RSWWFR_DEBUG, RSWWFR_DELETE, RSWWFR_INSERT, RSWWHIDE, RSWWMONB_BACKGROUND_STARTED, RSWWRENCNT, RSWWSTAT, RSWWIDE, RSWWIDE_DEP, RSWWIDE_TOLEVEL, RSWWWIM, RSWWWIM_DELETE, RSWWWIM_INSERT, RSWX_FORMABSENC_MONITOR, RSWXML_FIND, SWN_SELSEN_TEST, SWXFORMA, SWXFORMC, SWXFORMD, SWXFORMS, SWXFORMS_SHOW, SWXFORMS_TB, WDHEX_XMB_INTERNAL_DEADF01, WFUNIT_INTERNAL, WFUNIT0001, WFUNIT0002, WORKITEM_DEL

Transactions:

RSWF_EXECUTE_ACTIONS, RSWF_PUSH_NOT, RSWF_RESTART_WF, RSWF_SYSTEM_CLEANUP, RSWWCLEAR, RSWWC, RSWWCON, RSWWHEX, RSWWWIM, RSWWWIM_DELETE, RSWWWIM_INSERT, RSWWWIM_MON, RSWWWMONB_BACKGROUND_STARTED, RSWWRENCNT, RSWWWSTAT, RSWWIDE, RSWWIDE_DEP, RSWWIDE_TOLEVEL, RSWWWIM, RSWWWIM_DELETE, RSWWWIM_INSERT, RSWX_FORMABSENC_MONITOR, RSWXML_FIND, SWN_SELSEN_TEST, SWXFORMA, SWXFORMC, SWXFORMD, SWXFORMS, SWXFORMS_SHOW, SWXFORMS_TB, WDHEX_XMB_INTERNAL_DEADF01, WFUNIT_INTERNAL, WFUNIT0001, WFUNIT0002, WORKITEM_DEL
2.34 S4TWL - Business User Management

Application Components: BC-SEC-USR-ADM, CA-HR-S4

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2570961</td>
<td>Simplification item S4TWL - Business User Management</td>
</tr>
</tbody>
</table>

Symptom

You need information about Business User Management in SAP S/4HANA.

Reason and Prerequisites

Business User Management in SAP S/4HANA is mandatory and is automatically activated during the conversion from SAP Business Suite to SAP S/4HANA.

Solution

- What Has Changed in Business User Management in SAP S/4HANA?
- What is the difference between business users and SU01 users?
- What is the business impact of that change?
- Limitations
  - User Management
  - Business Partner
  - Human Capital Management (HCM)
- HCM Integration active or inactive: What does it mean?
  - HCM Integration Switch (System Table T77S0)
  - External Resources Switch (System Table T77S0)
- How to create Business Users in SAP S/4HANA
  - HCM Integration is Active
  - HCM Integration is Inactive
- Maintenance of the Business User Workplace Address
- Conversion
- How to Determine Relevance

What Has Changed in Business User Management in SAP S/4HANA?

SAP S/4HANA is introducing a new identity model for business users, which is based on the "principle of one". A business user is defined as a natural person who is represented
by a business partner and a link to a user in the system. Business users interact with the software in the context of a business process, for example, in the role of a purchaser, a sales representative, or a production planner.

In SAP S/4HANA, the business partner is the natural person who maintains the user data for the person, work center, and communication-related information. For logon, changing the user ID (BNAME) is no longer supported. However, one person can still log on with a user alias or email. The user alias or email can be changed (see SAP Note 2883989). The identity model for business users ensures correct auditing, workflows, and jobs. It also avoids errors in documents after a change of the user ID (BNAME). Auditors require a consistent history of all documents that contains the user ID (BNAME).

SAP S/4HANA Business User Management enables and supports the entire life cycle maintenance of business users such as organizational changes, change of employment, or retirement. A user in SAP S/4HANA has a one-to-one relationship with a corresponding business partner (natural person). This reduces redundant maintenance and prevents outdated information.

**What is the difference between business users and SU01 users?**

The business user is a SU01 user, but also has a one-to-one relation to the corresponding business partner. This relationship is time independent and cannot be changed anymore. For more details about important user related constraints see SAP Note 2571544.

The business user concept is used in many new applications in SAP S/4HANA. SU01 users with Classic Address (Identity Address Type 00 - User's Old Type 3 Address) lead to limitations because the new business user model is a prerequisite for many business applications. As soon as Fiori apps are activated and used, business users are mandatory (for example Teams, CreditAnalyst in Credit Management or Situations).

The business partner contains the personal information, for example private address, workplace address, bank details, vendor and customer related data. The business partner and SU01 user share personal details and workplace address related data. The advantage of the new business user model is that the entire lifecycle of that person works without redundant maintenance of user address data. Business users can still be managed using transaction SU01, Central User Administration or identity management systems.

In the SAP Business Suite, you can use transaction BP (Business Partner Maintenance) to assign users to business partners. In SAP S/4HANA this is not possible anymore to avoid an inconsistent data model for business users. Existing business partners cannot be converted to business users, because of Data Protection and Privacy (DPP). Already existing business partners could have been part of a distribution scenario.
What is the business impact of that change?

With the new business user model in SAP S/4HANA we have a clear maintenance ownership. It can be owned by Human Capital Management (HCM), Business Partner (BP) or User Management. The ownership of HCM is only relevant when HCM integration is active. (More details about HCM integration see section [HCM Integration active or inactive: What does it mean?](#)).

Using the example of SU01 the following data categories exist:

1. **Person**: The personal data for the business user is derived from the corresponding business partner. In case HCM integration is active this data is mapped from the corresponding employee of the HCM system (SAP SuccessFactors or SAP HCM).
2. **Work Center**: The work center data for the business user is derived from the workplace address of the corresponding business partner. In case HCM integration is active, the function and department fields are mapped by default from the corresponding employee of the HCM system (for customizing options, see SAP Note 2548303).
3. **Communication**: The communication data for the business user is derived from the workplace address of the corresponding business partner (for customizing options, see SAP Note 2548303).
4. **Company**: During the conversion of a SU01 user from SAP Business Suite (classic user) to a business user in SAP S/4HANA the company address is copied to the business partner workplace address.

**Limitations - User Management**

Due to the new business user model the database view USER_ADDR can no longer be used in SAP S/4HANA. This view can only display the users with classic address but not the business users. It is not possible to enhance this view. Instead of the database view USER_ADDR use the search help USER_ADDR (which is equivalent to an official API for searching users). In exceptional cases, you can use the SAP internal CDS view P_USER_ADDR, but have in mind that it can be changed by SAP at any time. With the ABAP statement "with privileged access" the authorization check is ignored. As a reference, use the coding of the search help exit F4IF_USER_ADDR_SUID_EXIT.

**Limitations - Business Partner**

In general, business partners that are neither employee nor contingent workforce cannot be managed as business users.

In transaction BP (Business Partner Maintenance) you can no longer assign SU01 users to business partners in SAP S/4HANA. This feature has been removed.
You can no longer maintain the following fields in transaction BP (Business Partner Maintenance):

- Personnel Number (BUS000EMPL-EMPLOYEE_ID)
- User (BUS000EMPL-USERNAME), for example, shown for role category WFM001 (Resource)
- Internet User (BUS000EMPL-INTERNETUSER), for example, shown for role category BUP005 (Internet User)

You can no longer assign the roles belonging to the following role categories in transaction BP:

- Employee (BUP003)
- Freelancer (BBP010) → Contingent worker
- External Resource / Service Performer (BBP005) → Contingent worker with additional supplier relation (staffed from external supplier)
- Collaboration Business User (BUP012)
- Resource (WFM001) → Only needed for SAP Portfolio and Project Management (component PPM-PFM-RES).

This means you have to create the business partners in one of the mentioned role categories. (New Procedures see section How to create Business Users in SAP S/4HANA)

Existing business partners cannot be expanded by the following role categories later on: Employee, Freelancer, Service Performer. The reason is business partners with the referenced roles have special behavior regarding:

- Authorization management (driven by GDPR/DPP requirements)
- Replication/distribution (no replication from SAP S/4HANA to any system)

For business partners which are assigned to one of these role categories, the fields of the following field groups cannot be maintained via transaction BP or the customer/supplier master Fiori UIs (independent from whether HCM integration is active or inactive):

- Field group 1: Partner Number (+ Role for Change Doc. Display)
- Field group 8: Form of Address
- Field group 9: Bank Details (for bank detail’s ID HC*)
- Field group 25: Person: First Name
- Field group 26: Person: Academic Title
- Field group 29: Person: Correspondence Language
- Field group 30: Person: Complete Name Line
- Field group 33: Person: Gender
- Field group 38: Person: Birth Name
- Field group 41: Person: Middle Name
• Field group 43: Person: Initials of Person
• Field group 54: Person: Last Name
• Field group 61: Address: Address Usage (HCM001, HCM002). Note that the address data can be edited in transaction BP but will be overwritten by the periodically scheduled sync report /SHCM/RH_SYNC_BUPA_FROM_EMPL.

Workplace address (table MOM052) attributes such as phone number or email address are not displayed in transaction BP. There are no plans to enhance transaction BP as of now. Please use transaction SU01 to display the workplace address attributes.

Relationships of relationship category BUR025 (Service Provider) cannot be maintained for roles of role category BBP005 (Service Performer).

Business partners which are assigned to one of these role categories cannot be maintained using SAP Master Data Governance for business partners, customers or suppliers.

The usage of such workforce business partners in SAP Master Data Governance is also restricted:

• In partner function maintenance: Only the ID of the workforce business partners is visible, and navigation to that business partner is not possible.
• In business partner relationships: Relationships to workforce business partners are not visible and thus can’t be maintained.

Limitations - Human Capital Management (HCM)

In case of multiple employments (concurrent / global employment / country transfer) only the main employment is allowed to have a user assigned. Additional user assignments are not allowed.

HCM Integration active or inactive: What does it mean?

HCM integration active means that you rely on the HR mini master (HR infotype based PERNR data model including the PA-Tables). This HR mini master can be locally maintained (for example via transaction PA30 or PA40) or via real integration scenarios with SAP SuccessFactors Employee Central or an external (third party) HCM system.

If you don't need the HR mini master you should deactivate HCM integration.

Based on the HCM integration, business users are handled the following way:

• If the HCM integration is active, it is mandatory to schedule the sync report /SHCM/RH_SYNC_BUPA_FROM_EMPL regularly as a background job so that the business users are automatically synchronized with the PA-Tables.

You can maintain business users via

- Transaction PA30 or PA40
- HCM integration.

- If the HCM integration is inactive, you can maintain business users via
  - Fiori app Maintain Employees
  - Fiori app Maintain External Resources
  - SOAP Service ManageBusinessUserIn
  - Report RFS4BPU_IMPORT_BUSINESS_USER.

An example of why we need the HCM integration:

For using the standard SD partner functions for employees, it is necessary to maintain the employees with the features of the HCM compatibility pack in SAP S/4HANA. It is not sufficient to maintain persons without active HCM integration (see SAP Note [2763781](#)).

### HCM Integration Switch (System Table T77S0)

<table>
<thead>
<tr>
<th>Description</th>
<th>Group (GRPID)</th>
<th>Sem. abbr. (SEMID)</th>
<th>HCM Integration inactive</th>
<th>HCM Integration active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activate HCM Integration</td>
<td>HRALX</td>
<td>HRAC</td>
<td>SPACE (Blank)</td>
<td>X</td>
</tr>
<tr>
<td>Integration P-BP Activated</td>
<td>HRALX</td>
<td>PBPON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

HCM Integration for External Resources (BBP005) is set by the External Resources Switch. It interacts with the HCM Integration Switch as follows:

### External Resources Switch (System Table T77S0)

<table>
<thead>
<tr>
<th>Description</th>
<th>Group (GRPID)</th>
<th>Sem. abbr. (SEMID)</th>
<th>HCM Integration inactive</th>
<th>HCM Integration inactive</th>
<th>HCM Integration inactive</th>
<th>HCM Integration inactive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activate External Resources Switch</td>
<td>HRALX</td>
<td>PEXON</td>
<td>OFF</td>
<td>OFF</td>
<td>ON</td>
<td>ON</td>
</tr>
<tr>
<td>Activate HCM Integration</td>
<td>HRALX</td>
<td>HRAC</td>
<td>SPACE (Blank)</td>
<td>X</td>
<td>SPACE (Blank)</td>
<td>X</td>
</tr>
<tr>
<td>Integration P-BP Activated</td>
<td>HRALX</td>
<td>PBPON</td>
<td>OFF</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>
How to create Business Users in SAP S/4HANA - HCM Integration is Active

The HR mini master is the origin of business users (see HCM simplification SAP Note 2340095). The user assignment in the HR mini master has to be maintained in infotype 105 subtype 0001.

The creation of business users is managed by the periodically scheduled sync report /SHCM/RH_SYNC_BUPA_FROM_EMPL. This report performs the following steps:

1. Creation of business partner in one role of the role categories Employee (BUP003), Freelancer (BBP010) or External Resource / Service Performer (BBP005) with
   - private address
   - bank details
   - workplace address
   - customer/vendor related data (see Customer Vendor Integration [CVI])
   - relationships
2. Assignment of SU01 user. If the user doesn't exist, then the assignment takes place once the SU01 user is created.

Errors of the sync report are stored in the application log. The application log can be accessed via transaction SLG1 (or SLGD) for object SHCM_EE_INTEGRATION, Subobject BUPA_SYNC (filter via External ID field to Personnel Number PERNR).

Exception:

The creation of Collaboration Business User (BUP012) and Resource (WFM001) does not work with sync report /SHCM/RH_SYNC_BUPA_FROM_EMPL. They can only be created by using the following Fiori apps:

<table>
<thead>
<tr>
<th>Fiori ID</th>
<th>App Title</th>
<th>Business Partner Role Category</th>
<th>As Of Release</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>F4911</td>
<td>Maintain Collaboration Users</td>
<td>BUP012</td>
<td>2020 FPS01</td>
<td></td>
</tr>
<tr>
<td>F3505</td>
<td>Maintain Resources</td>
<td>WFM001</td>
<td>1809 FPS01</td>
<td>Only needed for SAP Portfolio and Project Management (component PPM-PFM-RES).</td>
</tr>
</tbody>
</table>

How to create Business Users in SAP S/4HANA - HCM Integration is Inactive
There are three options to create business users:

- Business users can be created in SAP S/4HANA by using the following Fiori apps (including CSV import for mass processing):

<table>
<thead>
<tr>
<th>Fiori ID</th>
<th>App Title</th>
<th>Business Partner Role Category</th>
<th>As Of Release</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>F2288A</td>
<td>Maintain Employees</td>
<td>BUP003</td>
<td>2020 FPS01</td>
<td></td>
</tr>
<tr>
<td>F2288</td>
<td>Maintain Employees</td>
<td>BUP003</td>
<td>1709 FPS02</td>
<td>Replaced by Fiori app F2288A.</td>
</tr>
<tr>
<td>F4911</td>
<td>Maintain Collaboration Users</td>
<td>BUP012</td>
<td>2020 FPS01</td>
<td></td>
</tr>
<tr>
<td>F3505A</td>
<td>Maintain External Resources</td>
<td>BBP005</td>
<td>2020 FPS01</td>
<td></td>
</tr>
<tr>
<td>F3505</td>
<td>Maintain Resources</td>
<td>WFM001</td>
<td>1809 FPS01</td>
<td>Only needed for SAP Portfolio and Project Management (component PPM-PFM-RES).</td>
</tr>
</tbody>
</table>

- For mass maintenance, you can also use the report RFS4BPU_IMPORT_BUSINESS_USER (As of SAP S/4HANA 1809). For SAP S/4HANA 1610 you can use report RFS4BPU_EMPLOYEE_UPLOAD - see SAP Note 2567604.
- SOAP Service ManageBusinessUserIn - can be set up via SOA Manager (Transaction SOAMANAGER).

**Maintenance of the Business User Workplace Address**

There are three possible application areas to maintain the workplace address of the business user:

- Human Resources (HR)
- Business Partner Management (BP)
- User Management (US)

SAP S/4HANA 1709 FPS02 provides a configuration view that defines the maintenance source of the workplace address attributes. SAP delivers a default proposal for both variants, HCM integration active/inactive. See SAP Note 2548303 for details. This configuration ensures that updates to the workplace address are restricted to one dedicated application area.
The configuration view TBZ_V_EEWA_SRC can be set via Transaction SPRO (SAP Reference IMG) Under 'SAP Business Partner' at node 'Additional customizing for SAP Business Partner' (see SAP Note 2591138).

The configuration view has the following constraints:

- If a field is configured for the application area User Management and the Central User Administration (CUA) is active, the maintenance rules of the CUA apply. (Transaction SCUM)
- If the HCM integration switch is active, BP is not applicable as maintenance source.
- If the HCM integration switch is inactive, HR is not applicable as maintenance source.
- The location part of the workplace address (company address - transaction SUCOMP) is not part of configuration view TBZ_V_EEWA_SRC because it can only be maintained by User Management. (See SAP Note 2571544)

Conversion

If HCM integration is active and the conversion from SAP Business Suite to SAP S/4HANA is done, employees are automatically converted to business users via the periodically scheduled sync report /SHCM/RH_SYNC_BUPA_FROM_EMPL.

If HCM integration is inactive:

- Business partners that exist in an ERP system with user linkage via table HRP1001 from BP-CP-US are automatically converted to business users in SUM-Phase as of SAP S/4HANA 1809 (see conversion report RFS4BPU_CONVERT_BUSINESS_USER).
- Business partners that exist in an ERP system with user linkage via table BP001 are automatically converted to business users in Silent Data Migration (SDM) as of SAP S/4HANA 2020 (see class CL_SDM_BUPA_BPU_BP001).

How to Determine Relevance

Simplification item S4TWL - Business User Management is relevant for all SAP S/4HANA conversion customers.

2.35 S4TWL - Generic Check for SAP S/4HANA Conversion and Upgrade

Application Components:CA-TRS-PRCK

Related Notes:
Symptom

You are planning to do

- a system conversion from SAP ERP 6.0 or SAP S/4HANA Finance to SAP S/4HANA
- or a release upgrade SAP S/4HANA to a higher SAP S/4HANA release

and want to learn about important things to know, critical preparation activities and checks to be done, which are directly related to the preparation of the the system conversion or upgrade.

Solution

Unlike other Simplification Items, this Simplification Item does not describe a specific functional or technical change in SAP S/4HANA. But it is a collector for various generic, technical checks which need to run before a conversion or upgrade in SAP S/4HANA and which could affect any customer system - irrespective of the specific SAP S/4HANA target release. Many of these checks are not even SAP S/4HANA specific, but are checking for constellations which were already considered to be inconsistent in SAP ERP and could also have caused issues during an SAP ERP release upgrade.

- As of now the check class CLS4SIC_GENERIC_CHECKS for this Simplification Item contains the following generic checks:
  
  o **Check for orphaned client dependent data**

  All client dependent data in a system must be associated with a client which officially exists in the system (in table T000). In case a client was improperly / incompletely deleted in the past, this might lead to the situation that orphaned, client dependent data exists in a system, which is no longer associated to a registered client. This can cause issues during lifecycle processes like upgrades and system conversions. Hence the check class will do a heuristic check as of SAP S/4HANA 1809, whether there is any orphaned, client dependent data in your system and raise a corresponding warning. While not mandatory, it's highly recommended to clean this up before a system conversion or release upgrade.

  To avoid long check runtime, the check is only looking for usr02 (user master data) records which do not belong to a client that exists in the
system. In order to further analyze to what extent orphaned, client
dependent data exists in your system, for those clients mentioned in the
check message, you can do additional manual checks on other commonly
used, client dependent tables. e.g. if the check did report orphaned data in
client 123, you can go to DBACOCKPIT => Diagnostics => SQL Editor
and run the following SQL "SELECT * FROM <table name> WHERE
mandt = 123" for tables like MARA, BSEG, VBAK, EKKO, MARC,
MARD...
Depending on whether you also find data in these other tables for this non-
existent client, you can decide, whether a cleanup activity is required.

The recommended approach for cleaning up such orphaned client data is,
to first recreate the client for which orphaned data exists, then logon to this
client and properly delete it with transaction SCC5. But before always
check, if this orphaned data is indeed no longer required - the technical
possibility to have client dependant data without an associated client is
sometimes misused in consulting projects or by customer specific/3rd
party coding e.g. to have "hidden" client backups in the system or for data
replication purposes. To be on the safe side, keep a system backup from
before deleting the data.

In addition the check also identifies clients that have no
data but still an entry in T000. In such a case the orphaned T000 entry can
be deleted with transaction SCC4.

  - **Existence and syntax check for check classes**

    Checks, whether the other check classes and related objects ( XS4SIC_* /
    CLS4SIC_* ) of the Simplification Item Check framework exist in the
    system and if they are syntactically correct. This check might prompt you
to manually reactivate some objects or install specific notes, in case any
issues are found.

  - **Check for inconsistent entries in tables TNIW5 / TNIW5W**

    Please see SAP Note 1484142 for further information.

  - **Check for inconsistent entries in tables TBP2B / TFB03T**

    Please see SAP Note 2749796 for further information.

- In addition, this Simplification Item serves as an anchor for assigning custom
code check related content (see SAP note 2241080), which is not related to any
technical or functional changes in SAP S/4HANA. Most notably the deletion SAP
development objects from the SAP S/4HANA codeline which are unused /
orphaned. Therefore, in case this note is mentioned in the result of SAP S/4HANA specific ATC checks, please remove all usages of the related SAP objects from your custom code. There are no specific replacements for these objects.

Other Terms

SAP S/4HANA, Generic Checks, Simplification Item

2.36 S4TWL - Removal of Add-On CTS_PLUG

Application Components: BC-CTS-TMS-CTR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2820229</td>
<td>S4TWL - Add-On CTS_PLUG</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case if add-on CTS_PLUG is installed in the system.

Reason and Prerequisites

CTS_PLUG, as an add-on, is neither required nor support in S/4HANA contexts.

Solution

Description & Business Process related information

The add-on CTS_PLUG is no longer required in SAP S/4HANA system contexts, as all coding changes have been migrated back into the basis of S/4HANA. Before a conversion to S/4HANA, on-premise addition can be performed, CTS_PLUG needs to be uninstalled. Please refer to note 2630240 for more details.

Other Terms

cCTS, central CTS, CTS Server Plugin
2.37 S4TWL - Removal of obsolete Data Modeler (SD11) content

Application Components: XX-SER-REL, BC-DWB-TOO-DMO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2850096</td>
<td>S4TWL - Removal of obsolete Data Modeler (SD11) content</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Along with SAP R/3 Enterprise Edition 4.6C for some R/3 modules Data Modeler (SD11) content was delivered by SAP. Later on this was no longer updated or complemented with additional data models. Hence this content gradually became outdated during SAP R/3 Enterprise Edition 4.7, SAP ERP 5.0 and SAP ERP 6.0 timeframe. The meanwhile obsolete SD11 content has been removed in SAP S/4HANA. There are currently no plans to deliver new content for SD11.

**Business Process related information**

No impact on business processes is expected.

**Required and Recommended Action(s)**

Inform your users who did access this SD11 content in the past about this change.

For information about major data model changes in SAP S/4HANA (compared to SAP ERP 6.0) you can alternatively check the following notes and the further information linked therein:

SD/Pricing:

2267306
2267308
How to Determine Relevancy

This information is relevant for you, if some of your users did access the application specific content in Data Modeler (SD11) for reference purposes. See ST03N usage data for transaction SD11.

Other Terms

SD11, Data Modeler content

2.38 S4TWL - Simplified data model in Joint Venture Accounting

Application Components: CA-JVA

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2967210</td>
<td>S4TWL - Joint Venture Accounting on ACDOCA</td>
</tr>
</tbody>
</table>

Symptom

You are planning to do a system conversion to SAP S/4HANA with Joint Venture Accounting. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Business Value
As of OP1909, JVA customers can optionally run the Joint Venture Accounting on a new data model that is based on the ACDOCA table ("JVA on ACDOCA"). The new data model has several advantages compared with the classic JVA design: (a) The overall footprint of the JV accounting data is greatly reduced. (b) Automatic reconciliation between FI, JVA and CO is guaranteed. (c) JVA can utilize the new functionalities introduced through the ACDOCA design, for example: up to 10 local currencies; fast retrieval of aggregated data; new reporting tools.

**Description**

The classic JVA is based on a couple of separate database tables that basically contained copies of the documents posted to the FI and CO ledgers (plus additional JVA-only documents). When the new JVA_ON_ACDOCA business function is switched on in an S4HANA system, these separate tables are not used, anymore. Instead, all JVA processing is based on the ACDOCA table ("Universal Journal Entries" - UJE).

Important remark: It is not mandatory to run JVA on the new data model in S4HANA, that is, the classic data model can still be used in S4HANA. However, if the new data model is not used right from the start, there is no standard solution by SAP to migrate from classic JVA to JVA on ACDOCA at a later point of time!

**Business Process related information**

Although the underlying data model of JVA on ACDOCA has changed fundamentally (which required a re-development of all JVA month-end processes), the general business logic remains the same. Even the old transaction codes can still be used (when using the SAP GUI). Major changes happened in three areas only: (a) The Venture Bank Switching transactions are replaced by Funding transactions that make use of the special ACDOCA features. (b) The reconciliation transaction GJ90 is not required, anymore. (c) The JVA variants of FI valuation transaction are not required anymore (GJ91, GJNO); instead, the corresponding FI transaction can and need to be used; these were enhanced to cover the JVA requirements.

The main difference regarding user experience is in the JVA reporting where the old SAP GUI-based reporting transaction are replaced by Design Studio-based FIORI apps that can be accessed via the Fiori Launchpad, only.

The master data model, on the other hand, has not been changed; just a few options had to be added to adapted to meet the required of the above-mentioned functionalities. The maintenance transactions have changed in the related areas only.

**Required and Recommended Actions**

Before the conversion process is started, the following checks should be executed:
• The main pre-requisite for the migration to JVA on ACDOCA is the NewGL-JVA integration. That is, a system with the classic JVA without NewGL integration can NOT be migrated to JVA on ACDOCA. So, if your system is still based on classic GL with classic JVA, you need to migrate to the JVA-integrated NewGL first. For detailed information on the supported scenarios, see note 2927005.

• A technical consistency check of the JVA ledgers should be executed by running the reports RGUSLSEP (to check the summary table consistency) and RGUREP11 (to check the object number consistency). For more information, see note 764523.

How to Determine Relevancy

To check the relevancy of this simplification item, execute the following checks:

• Check if the business function 'JVA' is active (via transaction SFW5).
• Check if any company code has been activated for JVA (via transaction GJZA).

Other Terms

JVA, Joint Venture Accounting, migration, worklist

2.39 S4TWL - New Default Security Settings for SAP S/4HANA

Application Components:XX-PROJ-CON-SEC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2926224</td>
<td>Collection Note: New security settings for SAP S/4HANA and SAP BW/4HANA using SL Toolset and SUM</td>
</tr>
</tbody>
</table>

Symptom

This is the central entry point for all information around new secure-by-default settings for SAP S/4HANA.

You want to know more details about the new secure-by-default settings for SAP S/4HANA systems. During SAP S/4HANA provisioning you were asked to review the profile parameters set by SL Toolset (e.g. SWPM, SUM).

Reason and Prerequisites
You are using the latest SL Toolset or SUM. This will introduce the latest recommended security settings for SAP S/4HANA systems and SAP BW/4HANA systems.

From SAP S/4HANA 1909 onwards and SAP BW/4HANA 2021 onwards, new installations (with SWPM), system copies (with SWPM) and system conversions from SAP ERP to SAP S/4HANA (with SUM) will automatically receive the recommended security settings. An opt-out is possible for the security relevant profile parameters, but not recommended from SAP side.

In SAP S/4HANA and SAP BW/4HANA upgrades (with SUM), security settings are not adjusted automatically. In some cases, preparations are necessary before configurations / parameters can be switched to secure values in upgraded systems. That’s why configurations / parameters are not changed during the upgrade process. Though it’s recommended to also apply the updated security settings in system which have been upgraded from older SAP S/4HANA and BW/4HANA releases.

**Solution**

For more details, how the security settings change in each SAP S/4HANA and SAP BW/4HANA release and what you need to do and know about these changes from system operations point of view, please refer to the release specific SAP notes linked in this note.

The attached spreadsheet contains the list of all security settings that are recommended. The attached spreadsheet was updated with the list of security settings for SAP S/4HANA 2022.

**Other Terms**

Software Provisioning Manager (SWPM), SWPM, SAPinst, SL Toolset, security, profile parameter, Software Update Manager (SUM), SUM, security, conversion, upgrade

### 2.40 S4TWL - Extended Check of Output Device in Output Control

Application Components: CA-GTF-OC

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3093397</td>
<td>S4TWL - Extended Check of Output Device in Output Control</td>
</tr>
</tbody>
</table>

**Symptom**
You upgrade to SAP S/4HANA 2021 release and use SAP S/4HANA output control as output solution.

**Reason and Prerequisites**

In the SAP S/4HANA 2021 release, the output solution SAP S/4HANA output control introduces an enhanced check for output devices defined within the spool administration, which are used for printing of output request items.

This simplification item is relevant for you if there already exist output control items for channel PRINT which should be still processed after the upgrade (e.g. as the status is 'In Preparation', etc.). If such an output control item uses an output device with now invalidated settings, any output action fails after the upgrade to SAP S/4HANA 2021. Refer to note 3057330 for details on the enhanced check.

**Solution**

**Business Process related information**

Talking about output devices, it is worth mentioning two points in advance:

- Output devices are defined cross-client, i.e. a change in spool administration immediately affects all working clients
- Output devices are used of course not only in output control, but within the complete business suite, and a change in spool administration does affect the complete business suite

**Required and Recommended Action(s)**

To securely upgrade to SAP S/4HANA 2021 from any lower SAP S/4HANA release, the Simplification Item Check (SIC) has to be carried out to detect such invalidated output devices. Once detected, depending on your business data (see bullet points above), there are two possibilities to ensure a smooth upgrade:

- Adapt the detected output devices in spool administration
- Create new output devices and exchange the detected output devices for relevant output request items (transaction data) and printer settings (configuration data)

For details refer to note 3057330.

Please notice that all errors of this simplification item are skippable, e.g. because the detected output control items are outdated, or in a state that there will be no further processing, or in a non-relevant client. Another option could be to accept the fact, that some output control items of channel PRINT will run into the output device error after
the upgrade and to treat these cases manually. This could come in handy if there is only a low number of detected output control items.

However, especially if the findings point to a structural problem, i.e. an output device became invalid which is heavily used within relevant output control items through all working clients, it is highly recommended, to become active before the upgrade.

Other Terms

SAP S/4HANA output control, Printing, Print Device, Printing Device, Device Type, CLS4SIC_APOC_CHK_ITEM_DEVICE, S4SIC_APOC_CHK_OPD_DEV

2.41 S4TWL - Deprecation of Design Studio Apps

Application Components: CA-UX

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3133221</td>
<td>S4TWL - Deprecation of Design Studio Apps</td>
</tr>
</tbody>
</table>

Symptom

You are doing an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

As of SAP S/4HANA 2021 SAP Design Studio apps have been deprecated. This includes all Finance apps based on the Design Studio technology. For all deprecated SAP Design Studio apps Web Dynpro data grid apps exist as alternatives. For a list of all deprecated SAP Design Studio apps and their alternatives refer to SAP note 3081996.

As of SAP S/4HANA 2022 most of these SAP Design Studio apps have been set to obsolete. This includes most Finance apps based on the Design Studio technology. Refer to SAP note 3170381 for more information.

Business Process related information
Deprecated SAP Design Studio apps are no longer available by default on the SAP Fiori launchpad. However, you can still use them and also locate them using the app finder until they are deleted. Nevertheless, we strongly recommend switching to the SAP Web Dynpro successor apps as soon as possible. The Web Dynpro apps are already the default tiles on the SAP Fiori launchpad.

Obsolete SAP Design Studio apps are no longer supported and have been deleted from the system.

You can continue to use Design Studio reports that you created using the View Browser. However, you can no longer create new ones. We recommend creating Web Dynpro reports instead.


**Required and Recommended Action(s)**

For deprecated SAP Design Studio apps:

- Evaluate the SAP Web Dynpro apps as alternatives to the SAP Design Studio apps and decide when to switch to the successor apps. However, this need to happen latest before the next release upgrade of your SAP S/4HANA system.
- If you use custom design studio apps note that they cannot be migrated automatically to Web Dynpro apps. You need to recreate them as Web Dynpro reports using the View Browser. Refer to SAP note 3081996 for details.

For obsolete SAP Design Studio apps:

- Switch to the SAP Web Dynpro apps provided as alternatives to the SAP Design Studio apps latest with your upgrade.

**Other Terms**

SAP S/4HANA, Upgrade, Design Studio Apps, WebDynpro Grid

**2.42 SWTL - Deprecation of Obsolete Data Handling Tool**

Application Components:CA-EPT-ODH, BC-CCM-ODH

Related Notes:
### Symptom

You are doing an upgrade from a lower SAP S/4HANA release to release 2023 (or higher) and have been already using the obsolete data handling tool (report/transaction code ODH_Data_processing) in the past for deleting obsolete data that remains after the conversion of your system from SAP ERP to SAP S/4HANA 2023, or after a previous SAP S/4HANA upgrade. The following SAP S/4HANA Simplification Item is applicable in this case.

### Reason and Prerequisites

With SAP S/4HANA release 2023 a new obsolete data handling tool is delivered.

The old tool (report/transaction code ODH_Data_processing) is deprecated and can only be used with SAP S/4HANA release 2023 to view the logs of already finished cleaning runs.

We plan to make it obsolete in favor of the designated successor functionality as of release SAP S/4HANA 2025.

For more details on the old obsolete data handling tool, see SAP Note [2661837](https://support.sap.com/changelogs).  

### Solution

All new obsolete data cleaning activity must be done with the new, class-based tool (transaction code SODH).

For information on how to enable and use this tool in the productive SAP S/4HANA 2023 system, see SAP Note [3335020](https://support.sap.com/changelogs).

### Other Terms

SAP S/4HANA, System Conversion, Upgrade, deprecation, ODH, ODH_Data_processing

---

2.43 S4TWL - CATSXT
Application Components: CA-TS-SV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3150537</td>
<td>S4TWL – CATSXT</td>
</tr>
</tbody>
</table>

**Symptom**

You are using the functionality “Cross Application - Time Sheet Service Provider” in release SAP S/4HANA on-premise 2022 or lower. SAP deprecated this functionality with release SAP S/4HANA on-premise 2022 and plans it will not be available with release SAP S/4HANA on-premise 2023 or higher. SAP intends in particular that the transaction CATSXT will not function with release SAP S/4HANA on-premise 2023 or higher. Up to and including release SAP S/4HANA on-premise 2022 CATSXT is, however, still fully available.

**Reason and Prerequisites**

SAP plans to make an alternative solution for “Cross Application - Time Sheet Service Provider” available.

**Solution**

**Description**

SAP intends to deliver a future solution for customers which currently use CATSXT in S/4HANA on-premise 2022 or lower. SAP does not commit to deliver this future solution. SAP plans for this with re-use of the database table CATSDB. This future solution is not a “successor solution” for CATSXT as its capabilities will be different: The details of its functions and features will be communicated via the SAP Product Roadmap.

Until the new solution will be available the Fiori App “My Timesheet” with its configuration and enhancement options may be used. There is also the Cross-Application Time Sheet (CATS), which is a cross-application tool for recording working times and tasks.

Further details will be published in this note in the future.

**Business Process related information**

<table>
<thead>
<tr>
<th>Transactions not available in SAP S/4HANA on-premise 2023 or higher</th>
<th>CATSXC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CATSXC_CHECK</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CATSXC_COMP_DTL</th>
<th>CATSXT</th>
</tr>
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<tbody>
<tr>
<td>CATSXT_ADMIN</td>
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</tr>
<tr>
<td>S_ALR_87100621</td>
<td></td>
</tr>
<tr>
<td>S_ALR_87100718</td>
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<td>S_ALR_87100771</td>
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<td></td>
</tr>
<tr>
<td>S_P00_07000322</td>
<td></td>
</tr>
</tbody>
</table>

Other Terms

CA-TS-SV, CATSXC, CATSXT, CATSXT_ADMIN, CATSXT_COMP_DTL,

S4TWL: S/4 HANA Transition Worklist Item.

2.44 S4TWL - OUTPUT MANAGEMENT

Application Components: CA-GTF-OC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2470711</td>
<td>S4TWL - OUTPUT MANAGEMENT</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Business Value
SAP S/4HANA output management is a modern solution for output related tasks. It takes the functionality from existing SAP output solutions and adds additional features like seamless integration into Fiori apps, flexible email configuration and email templates as well as the support of SAP Cloud Platform Forms by Adobe.

**Description**

SAP S/4HANA output management comes as an optional part of SAP S/4HANA. There are no mandatory actions for customers using this framework. All existing output management solutions like SD Output Control, FI Correspondence, FI-CA Print Workbench, and CRM Post-Processing are still supported. There are currently no plans to deprecate any of these solutions.

**Business Process Related Information**

Business processes can benefit from one common output management solution across the product. Users always have the same look and feel and functionality, no matter if they perform output related tasks in Logistics, Procurement, or Financials. Also, an administrator only needs to setup and configure one output management framework. The SAP S/4HANA output management also offers at many places integration to standard extensibility, allowing business users to extend the solution without the need for an implementation project.

**Required and Recommended Action(s)**

Business applications that already adopted to SAP S/4HANA output management should offer a switch to enable or disable the use of it.

Required actions for all business applications in scope:

1. Define the active output management framework for the individual business applications.

2. Open the customizing activity 'Manage Application Object Type Activation' under SAP Reference IMG -> Cross-Application Components -> Output Control.

3. Set the desired value in the column Status for all available Application Object Types by either changing an existing entry or by adding new entries.

4. All Application Object Types not listed in this customizing activity should have linked their corresponding simplification item to SAP Note 2228611 providing individual information on how to enable or disable SAP S/4HANA output management. Please check the list of SAP Notes under section 'References' in this note.

4. If a business application is not listed in the customizing activity and has no simplification item or does not mention any changes regarding output
management in its existing simplification item, it is likely not using SAP S/4HANA output management.

2. In case SAP S/4HANA output management is enabled, please refer to the SAP Note 2228611 for more information and related notes for the technical setup and configuration.

3. In case SAP S/4HANA output management is not enabled or disabled, please setup the according other output management solution for the particular business application.

**How to Determine Relevancy**

The SAP S/4HANA output management might be relevant for you if:

- The existing functionality described in SAP Note 2228611 fully meets your business requirements. According limitations / differentiations are listed in this note and linked subsequent SAP Notes. Additional functionality for SAP S/4HANA output management will only be delivered within a new release of SAP S/4HANA.
- You want to use SAP delivered Fiori apps including output functionality.
- The business applications of your business scope already adopted to SAP S/4HANA output management allowing the use of one output framework along the business processes.

The SAP S/4HANA output management might not be relevant for you if:

- You want to continue using your existing output management setup in SAP S/4HANA.
- You require functionality that is not covered by SAP S/4HANA output management.

**Other Terms**

OM, Output Management, Output Control

**2.45 S4TWL - SAP HANA LIVE REPORTING**

Application Components:XX-SER-REL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>

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Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

SAP HANA Live provides reporting capabilities for Business Suite and Suite on HANA customers. In S/4HANA, database tables have changed in many areas. Thus, the Hana Live Calc Views will not work on those changed structures. In addition, a strategic decision was taken to switch the technology from Calculation Views to CDS Views with SAP S/4HANA. Reporting scenarios built with the SAP HANA Live content in Business Suite, Suite on HANA, or Simple Finance installations have either to be adjusted manually to the changed DB-table structures or to be rebuilt manually with CDS Views in SAP S/4HANA.

Business Process related information

It should be possible to rebuild all existing reporting scenarios with CDS Views. Limitations might exist with respect to consumption.

Required and Recommended Action(s)

If HANA Live views are used, time and resources should be planned for migration to CDS Views or for implementation of the additional RDS package (if that is available).

Related SAP Notes

| Custom Code related information | If the customer copied calc views delivered by SAP or created user-defined calc views on top of SAP delivered views, those potentially need to be redone to reflect changed DB-table structures (in case there are some). |

2.46 S4TWL - ENTERPRISE SEARCH

Application Components: BC-EIM-ESH

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2318521</td>
<td>S4TWL - Enterprise Search</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

ESH_SEARCH was the generic search UI of Enterprise Search in previous releases. Its successor in SAP S/4HANA is the integrated search functionality in the Fiori Launchpad.

**Business Process related information**

If a customer migrates from an older release to SAP S/4HANA and if he created his own search models or enhanced existing ones before, he needs to migrate his enhancements to the maybe changed standard search models of SAP S/4HANA.

Note that the navigation targets are not maintained any longer in the Enterprise Search model, but in the Fiori Launchpad Designer.

**Transaction not available in SAP S/4HANA**

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>ESH_SEARCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>1511</td>
<td></td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

The search functionality is always available in the header area of the Fiori Launchpad. So you don't need a transaction code to start it.

The users may need a general introduction into the Fiori Launchpad. Only if the customer created his own search models or enhanced existing ones before, he needs to migrate his enhancements to the maybe changed standard search models of SAP S/4HANA. Note that the navigation targets are not maintained any longer in the Enterprise Search model, but in the Fiori Launchpad Designer.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2227007 |
2.47 S4TWL - Duplicate request entries in Output Management

Application Components: CA-GTF-OC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2679118</td>
<td>Simplification item check for duplicate output request entries</td>
</tr>
</tbody>
</table>

**Symptom**

Upgrade to SAP S/4HANA 1809 On Premise release

**Reason and Prerequisites**

SAP S/4HANA 1809 On Premise release introduces a new secondary key index to the following tables:

1. APOC_D_OR_ROOT
2. APOC_D_OR_ITEM
3. APOC_D_OR_ITEM_A
4. APOC_D_OR_ITEM_E

It is necessary to make sure that there are no multiple database entries in these tables that match with the new unique key. If there are any duplicate entries, the new secondary key index constraint cannot be added to the tables.

Therefore, to upgrade to SAP S/4HANA 1809 from any lower S/4HANA releases, the Simplification Item Check (SIC) has to be carried out to detect these duplicate entries. Once detected, duplicate entries are to be deleted from the tables to ensure a smooth upgrade.

**Solution**

If there are duplicate entries (multiple entries in the database matching key constraints) in the following tables, the SIC will detect them:

1. APOC_D_OR_ROOT
2. APOC_D_OR_ITEM
3. APOC_D_OR_ITEM_A

4. APOC_D_OR_ITEM_E

Duplicate table entries detected by SIC must be deleted from their corresponding tables.

Please go to the table via transaction se16n. Enable &sap_edit. Filter the entries based on the key fields displayed by SIC.

You may now analyze the entries and delete the duplicate ones.

2.48 S4TWL - Ariba Network Integration

Application Components: BNS-ARI-SE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tr>
<td>Business Impact</td>
<td>2341836</td>
<td>S4TWL - Ariba Network Integration in SAP S/4HANA on-premise edition</td>
</tr>
</tbody>
</table>

Symptom

You are planning a system conversion from SAP ERP to SAP S/4HANA on premise. The information below is important.

Solution

This SAP Note is relevant if you use the SAP ERP add-on of Ariba Network Integration 1.0 for SAP Business Suite. In SAP S/4HANA, Ariba Network integration functionality is not provided as an add-on but as part of the SAP S/4HANA core product. Not all integration processes and messages that are provided with Ariba Network Integration 1.0 for SAP Business Suite are available in SAP S/4HANA. After the conversion from SAP ERP to SAP S/4HANA, the integration of processes and cXML messages listed below are not natively supported by SAP S/4HANA.

Please take into account that there will be no further development of new features or functionalities for the S/4HANA native Ariba Integration. You should consider a transition to the SAP Ariba Cloud Integration Gateway as soon as possible. More details are provided in the note 2705047 (Roadmap for Ariba Integration Solutions).
The preferred approach to migrate the ERP add-on of Ariba Network Integration to the S/4HANA on-premise edition would be first to convert this add-on to the SAP Ariba Cloud Integration Gateway and only then start the ERP system conversion. See Migrating from SAP Business Suite Add-On.

**Business Process Related Information**

Note the restrictions for SAP S/4HANA, on-premise edition 1511 listed below.

The following processes are not supported:

- Processing of CC invoices (invoices transferred from SAP S/4HANA to Ariba Network)
- Service procurement/invoicing process
- Payment process
- Discount management process
- Update of Advanced Shipping Notifications
- Ariba Supply Chain Collaboration e.g.
  - Processing of scheduling agreement releases
  - Consignment process
  - Subcontracting process
  - Processing of forecast data
  - Multi-tier purchase order processing
  - Purchase order return items processing
  - Integration processes for suppliers
  - Quality Management Process (e.g. Quality Notification, Quality Inspection, Quality Certificates...)

The following cXML message types are not available:

- ReceiptRequest
- CopyRequest.InvoiceDetailRequest
- ServiceEntryRequest
- PaymentRemittanceRequest
- PaymentRemittanceStatusUpdateRequest
- PaymentProposalRequest
- CopyRequest.PaymentProposalRequest
- ProductActivityMessage
- ComponentConsumptionRequest
- ProductReplenishmentMessage
- QuoteRequest
- QuoteMessage
- QualityNotificationRequest
- QualityInspectionRequest
- QualityInspectionResultRequest
• QualityInspectionDecisionRequest
• ApprovalRequest.ConfirmationRequest
• OrderStatusRequest

Note the restrictions for SAP S/4HANA, on-premise edition 1610, 1709, 1809 and 1909 listed below.

The following processes are not supported:

• Processing of FI - CC invoices (transferred from SAP S/4HANA to Ariba Network)
• Update of Advanced Shipping Notifications
• Ariba Supply Chain Collaboration e.g.
  o Processing of scheduling agreement releases
  o Consignment process
  o Subcontracting process
  o Processing of forecast data
  o Multi-tier purchase order processing
  o Purchase order return items processing
  o Integration processes for suppliers
  o Quality Management Process (e.g. Quality Notification, Quality Inspection, Quality Certificates...)

The following cXML message types are not available:

• ProductActivityMessage
• ComponentConsumptionRequest
• ProductReplenishmentMessage
• QualityNotificationRequest
• QualityInspectionRequest
• QualityInspectionResultRequest
• QualityInspectionDecisionRequest
• ApprovalRequest.ConfirmationRequest
• OrderStatusRequest

**Required and Recommended Action**

• Conversions to 1511 or 1610: Implement the master conversion pre-check SAP Note "2182725 - S4TC Delivery of the SAP S/4HANA System Conversion Checks" and follow the instructions in this note.
• Conversions 1709 and later: Implement the master conversion pre-check SAP Note "2502552 - S4TC - SAP S/4HANA Conversion & Upgrade new Simplification Item Checks" and follow the instructions in this note.
• For Ariba Network Integration, also implement the pre-check SAP Note "2237932 - S4TC Ariba BS Add-On Master Check for SAP S/4HANA System Conversion Checks". This note is also listed within the master note.
• Regarding customer code relevant changes please read the following SAP Note "2406571 - SAP S/4HANA Simplification: Ariba Network Integration (custom code relevant changes)"
• If pre-checks fail, see the following SAP Note: "2246865 - S/4 Transition: Activities after failed PreChecks".
• Access SAP Note: "2341836 - S4TWL - Ariba Network Integration in SAP S/4HANA on-premise edition", download the following documents, and follow the steps described.
  o Before the conversion: S4H_CONV_INTEGRATION_ARIBA_NETWORK_PREP C.PDF
  o After the conversion: S4H_CONV_INTEGRATION_ARIBA_NETWORK_POSTC.PDF

2.49 S4TWL - INTERNET PRICING AND CONFIGURATOR (SAP IPC)

Application Components: AP-CFG

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2318509</td>
<td>S4TWL - INTERNET PRICING AND CONFIGURATOR (SAP IPC)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The Internet Pricing and Configurator (SAP IPC) is not released within SAP S/4HANA. For scenarios and business processes where the Internet Pricing and Configurator is currently used alternative functionality like ABAP-based configuration (LO-VC) can be used in SAP S/4HANA.

Business Process related information
In the Business Suite, The Internet Pricing and Configurator (aka SAP AP Configuration Engine) is usually used for the following use cases:

- Configuration Processes in SD/MM (incl. Pricing) as alternative to LO-VC
- Creation of Material Variants
- For the Vehicle Management System (VMS), SAP IPC could be used for vehicle configuration as alternative to the variant configuration (LO-VC). For each vehicle model defined as configurable material, the configuration engine could be switched from variant configuration to SAP IPC and vice versa
- Configuration Simulation in combination with SAP CRM
- Web Channel (aka Internet Sales) ERP Edition - this application is not released with S/4HANA

For scenarios and business processes where the Internet Pricing and Configurator is currently used alternative functionality like ABAP-based configuration (LO-VC) can be used in SAP S/4HANA.

**Required and Recommended Action(s)**

Implement Business Scenarios and Business Processes based on the functionality available within SAP S/4HANA like ABAP-based configuration (LO-VC). Revert entries in CUCFGSW if needed.

**How to Determine Relevancy**

There is no unambiguous single indicator whether IPC is productively used. However, there are a number of hints:

- If table IBIB shows any entries in field KBID, configurations created with IPC have been stored. This is an indicator at least for usage in the past.

- Table TCUUISCEN contains mandatory information for the configuration UI. If this table contains records, at least the installation has been set up. It is quite likely that IPC is actively used.

- Table CUCFGSW contains the "IPC Switch". If this table contains records, master data has been set up to use IPC instead of VC. This is not only an indicator for IPC usage, moreover entries must be reverted prior to conversion to S/4HANA.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2238670 |
2.50 S4TWL - JOB SCHEDULING

Application Components: BC-CCM-BTC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2318468</td>
<td>S4TWL - JOB SCHEDULING</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

SAP S/4HANA contains a new component which automatically schedules certain technical background jobs. Deleting or modifying such jobs manually (via transaction SM37) will not have a lasting effect since the automation mechanism will re-schedule these jobs with predefined attributes. Job Definitions can be customized or deactivated via transaction SJOBREPO.

Solution

Description

Scheduling (and monitoring) "Standard Jobs" (e.g. SAP_REORG_SPOOL, SAP_REORG_ABAPDUMPS, SAP_REORG_JOBS etc.) was a manual action in SAP ERP. Choosing Standard Jobs in transaction SM36 displayed a table of standard job templates which the customer could choose to schedule.

In SAP S/4HANA, this manual action has been replaced by an automatic mechanism, the Technical Job Repository. SAP S/4HANA Technical Job Repository takes care of scheduling (and de-scheduling) necessary standard jobs (as defined and delivered by SAP) automatically, without any user intervention.

Nevertheless, in case of conflicts, it is possible to do customizations to job definitions, for example modify the execution period (or start time) of a job or disable automatic job scheduling of a job entirely because you want to use an own job with different report variant.

Two important job definitions which should be reviewed by customers after upgrade to SAP S/4HANA are described here:
1) SAP_REORG_JOBS:

This job definition schedules report RSBTCDEL2 daily in client 000 with variant SAP&001. This report+variant performs deletion of background jobs older than 14 days. If customer desires different deletion criteria (for example delete all jobs older than 7 days or exclude certain jobs from deletion), disable SAP-delivered job definition SAP_REORG_JOBS via transaction SJOBREPO (must be logged on in client 000 because this job definition is only relevant for client 000) and schedule a custom job with custom variant.

2) SAP_REORG_SPOOL:

This job definition schedules report RSPO0041 daily in client 000 with variant SAP&001. This report+variant performs deletion of spool requests that have reached their deletion date in all clients. If customer desires different spool deletion criteria, disable SAP-delivered job definition SAP_REORG_SPOOL via transaction SJOBREPO (must be logged on in client 000) and schedule a custom job with custom variant.

Note: It is possible for customers to create customer-owned job definitions via transaction SE80.

For more information and a guide to SAP S/4HANA Technical Job Repository, see SAP Note 2190119.

**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

IMPORTANT: Before the upgrade/migration to SAP S/4HANA (i.e. in your original system), apply SNOTE correction from note 2499529.

This correction ensures that automatic job scheduling of Technical Job Repository in the SAP S/4HANA system will be delayed even after the point in time when the technical upgrade is over. In other words, it ensures that no automatic job scheduling by Technical Job Repository occurs automatically after the conversion to SAP S/4HANA.

Applying the note prevents for example that jobs automatically scheduled by Job Repository in SAP S/4HANA (this can occur once the technical upgrade phase is over) delete valuable data (e.g. background jobs older than 14 days, spool requests that have reached their retention period) of your old system which the customer wants to retain after the technical upgrade phase.
Without above correction, Job Repository will schedule jobs (including SAP_REORG_JOBS, SAP_REORG_SPOOL) directly after the end of the technical upgrade phase, which may not be desired! For example, job SAP_REORG_JOBS (scheduled from Job Repository) deletes all background jobs older than 14 days.

IMPORTANT: After the upgrade/migration to SAP S/4HANA, apply the correction from note 2499529 also in your new system. This correction will ensure that automatic job scheduling by Technical Job Repository will commence once report BTCTRNS2 is executed by the conversion team. Be sure to have deactivated unwanted job definitions (for example SAP_REORG_JOBS) in SJOBREPO by that time.

Other Terms

Background Jobs, Batch, Standard Jobs, SM36

2.51 S4TWL - LEGACY SYSTEM MIGRATION WORKBENCH

Application Components: BC-SRV-DX-LSM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2287723</td>
<td>LSMW in SAP S/4HANA on-premise (S4CORE)</td>
</tr>
</tbody>
</table>

Symptom

For the data migration to SAP ERP, SAP offered the legacy system migration workbench (transaction code LSMW). But for the migration of business data to SAP S/4HANA and SAP S/4HANA Cloud, the SAP S/4HANA migration cockpit is the tool of choice. LSMW is on the simplification list and the use of LSMW is restricted in the context of data migrations to SAP S/4HANA. Even if the LSMW could be used in some areas, it might propose incorrect migration interfaces that cannot be used in SAP S/4HANA anymore. There is no support given in the context of data migrations to SAP S/4HANA.

This SAP Note is valid only for customers implementing SAP S/4HANA.
Reason and Prerequisites

The Legacy System Migration Workbench (LSMW) is an SAP NetWeaver tool for data migration that was first introduced with R/2 to R/3 data migration. It uses standard interfaces like BAPIs, IDocs, Direct Input and Batch Input programs and recordings initially build for SAP ERP. Due to this nature, the use of LSMW is restricted in the context of data migrations to SAP S/4HANA.

For restrictions on certain BAPIs, IDocs, Batch Input or Direct Input programs that are used by LSMW, please get in touch with the application components directly.

Solution

The use of LSMW for data load to SAP S/4HANA is not recommended and at the customer's own responsibility. Instead, the SAP S/4HANA migration cockpit is SAP’s solution for data migration to SAP S/4HANA. You should always check if the object is available with the SAP S/4HANA migration cockpit before using the LSMW.

If you still use the LSMW, you have to carefully test the processes so that you can ensure that it is actually working for you. It might not work for you and in any case.

Expect restrictions around transaction recording (as this is not possible with the new SAP Fiori screens) and changed interfaces (for instance the Business Partner CVI). Standard Batch Input programs may also no longer work as transactions may have changed functionality or may be completely removed within some areas. For example, due to security reasons batch import has been limited for RCCLBI02 program. Also, transactions for customer master data (FD*/XD*) and vendor master data (FK*/XK*) cannot be used anymore due to the change to the Business Partner data model in SAP S/4HANA.

Option 1: SAP S/4HANA Migration Cockpit and Migration Object Modeler

The SAP S/4HANA migration cockpit is SAP’s recommended tool of choice for the data migration to SAP S/4HANA and SAP S/4HANA Cloud. It provides all functions required for the migration of business data in a new implementation and is part of SAP S/4HANA and SAP S/4HANA Cloud.

For the migration to SAP S/4HANA Cloud, the migration cockpit is the only way to migrate business data.

For the data migration, the cockpit uses predefined migration content that is, standard migration objects such as customers, suppliers or purchase orders to identify and transfer the relevant data. These migration objects contain predefined mapping to facilitate the migration.
From SAP S/4HANA 2020 and SAP S/4HANA Cloud 2008, the SAP S/4HANA migration cockpit has the following two migration approaches:

1. **Migrate Data Using Staging Tables** *(SAP S/4HANA and SAP S/4HANA Cloud)*

   As of Release SAP S/4HANA 1709, FPS01, the migration cockpit contains the data transfer option using staging tables. From SAP S/4HANA 2020 and SAP S/4HANA Cloud 2008 a new Fiori UI was introduced and since then, the file migration approach is embedded in the Staging tables approach ("Migrate Data Using Staging Tables", Migrate your Data – Migration Cockpit App). This means that XML template files are provided for every migration object and, you can use these templates to fill the staging tables with data. Alternatively, you can fill the staging tables by using your preferred tools (for example SAP Data Services, SDI, etc.). The SAP S/4HANA migration cockpit creates staging tables for the migration objects that are relevant for your project and migrates data from these staging tables to the target SAP S/4HANA system.

2. **Migrate Data Directly from SAP System** *(new with SAP S/4HANA 1909, only for On-Premise)*

   This new migration approach that is delivered with SAP S/4HANA 1909 allows you to directly transfer data from SAP source systems to SAP S/4HANA. The migration cockpit selects the migration objects in the source system with the help of predefined selection criteria and directly transfers them to the SAP S/4HANA target system via an RFC connection.

   For more information about the direct transfer approach please refer to the SAP Help Portal: SAP S/4HANA Migration Cockpit - Transferring Data Directly from an SAP System

**Integration of custom data:**

In addition, the cockpit allows you to integrate your custom data objects into the migration using the migration object modeler which is part of the cockpit. For example, you can adjust the predefined standard migration objects delivered with the cockpit by adding fields to them. As of SAP S/4HANA 1610, FPS02 in the file and staging approach, you can also create your own custom-specific migration objects or SAP standard objects that have not yet been included in the scope of the migration cockpit. For the direct transfer, the migration object modeler is also available in a first version.

**Required roles:**

For file and staging approach:
SAP S/4HANA (S4CORE):
- For current information and more details about the file and staging approaches and required roles for SAP S/4HANA (on-premise version), please see:

SAP S/4HANA Cloud (SAPSCORE):
- For current information and more details about the file and staging approaches for SAP S/4HANA Cloud and required roles, please see:

For direct transfer approach:

For current information about the business roles needed and more details about the direct transfer, please see:

- SAP Help Portal: SAP S/4HANA Migration Cockpit - Transferring Data Directly from an SAP System

Data Migration Objects available for the Migration Cockpit:

For a list of available migration objects that are supported with SAP S/4HANA 1909 or higher versions, see https://help.sap.com/S4_OP_MO

For further information about data migration and the migration cockpit, see the data migration landing page in the SAP Help Portal under https://help.sap.com/S4_OP_DM

**Option 2: SAP Rapid Data Migration with SAP Data Services**

SAP S/4HANA data migration content called SAP Rapid Data Migration based on SAP Data Services software is still available and will be maintained further to migrate data
into SAP S/4HANA (on premise). But no new objects will be created. Yet, SAP will further invest into migration content for the SAP S/4HANA migration cockpit which already offers more migration objects than the RDS.

This package is part of SAP’s Rapid deployment solution (RDS). You can find more information in SAP Note 2239701 - SAP Rapid Data Migration for SAP S/4HANA, on premise edition and under the link below:

https://rapid.sap.com/bp/RDM_S4H_OP

This content has been specifically built for the new SAP S/4HANA target system, its interfaces and data structures. The content is free of charge and can be downloaded under the link above. There are two ways to leverage the content:

1. **Base: Data Integrator**
   SAP S/4HANA customers have access to a basic Data Integrator license key that comes with the underlying SAP HANA license (HANA REAB or HANA Enterprise). This key code applied to SAP Data Services provides full ETL functionalities (Extract, Transform, Load). Thus, it replaces a mapping and load tool like LSMW with the Rapid Data Migration content. With this basic data load functionality of SAP Data Services and together with the Rapid Data Migration content, legacy data can be loaded into SAP S/4HANA (on premise) including data validation but without further Data Quality (de-duplication, data cleansing) and reporting capabilities. For this use case with the aforementioned functionality, SAP Data Services is free of charge and there is no additional cost.

2. **Full: Data Services**
   Using the full SAP Data Services license (separately licensed and not part of SAP S/4HANA) unleashes all Data Quality features like data cleansing and de-duplication for mitigating risk during the data migration process of a new SAP S/4HANA implementation.

The SAP S/4HANA migration cockpit can be used in addition to the Rapid Data Migration content.

For more information, please click the link below:
https://blogs.sap.com/2016/06/21/how-to-migrate-to-sap-s4hana or check the SAP Best Practices Explorer (https://rapid.sap.com/bp/scopeitems/2Q2)

**How to Determine Relevancy**

This simplification item is relevant if you plan to continue to use Legacy System Migration Workbench to migrate data into SAP S/4HANA after System Conversion
Migration Cockpit versus LSMW

As mentioned earlier, the SAP S/4HANA migration cockpit is SAP’s recommended tool of choice for data migration to SAP S/4HANA. In this section we would like to point out a few advantages of the SAP S/4HANA migration cockpit against LSMW:

- The cockpit’s preconfigured migration content significantly facilitates data migration projects whereas the LSMW does not provide any content. Migration logic had to be created from scratch.
- The migration object modeler is a powerful and easy-to-use state-of-the-art modeling environment that allows the creation of custom migration objects as well as the adaptation of SAP content.

If you have any feedback regarding the SAP S/4HANA migration cockpit compared to LSMW please feel free to share this via SAP_S4HANA_Migration_Cockpit@sap.com

Other Terms

LSMW, Rapid Data Migration, RDS, Best Practices, SAP S/4HANA 1511, 1610, 1709, 1809 and 1909, SAP S/4HANA Migration Cockpit, SAP Data Services

3. Master Data

3.1 S4TWL - MDM 3.0 integration

Application Components: LO-MD-MM

Related Notes:

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<th>Note Type</th>
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<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2267295</td>
<td>S4TWL - MDM 3.0 integration</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist Item is applicable in this case.

Solution

Description
The MDM specific transaction codes for IDoc processing (inbound and extraction) are not available within SAP S/4HANA, on-premise and cloud edition. The item is valid starting with S/4 HANA release 1511 as well as for all newer releases.

**Business Process related information**

MDM 3.0 was discontinued. All known customer implementations have migrated to SAP NetWeaver MDM or SAP Master Data Governance, Central Governance. All known customer implementations have already replaced the SAP MDM 3.0 specific IDoc processing according to SAP note 1529387 "Tables MDMFDBEVENT, MDMFDBID, MDMFDBPR growing significantly".

**Required and Recommended Action(s)**

None

**Related SAP Notes**

| General SAP Note related to Simplification Item | SAP Note: 1529387 |

### 3.2 S4TWL - SRM Product Master

**Application Components:** AP-MD-PRO

**Related Notes:**

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<td>S4TWL - SRM Product Master</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The functional scope of SAP Supplier Relationship Management (SAP SRM) will gradually be made available within SAP S/4HANA. The related functions will become part of the procurement solution of SAP S/4HANA. Technically, the procurement
solution within SAP S/4HANA is not a successor to the SAP SRM components. Therefore, the SAP SRM software components and SAP S/4HANA cannot be installed on the same system.

For more details see Simplification Item *Co-Deployment of SAP SRM*.

Accordingly the SRM Product Master is not available in SAP S/4HANA, on-premise edition 1511.

**Business Process related information**

There is no influence on the business processes, as the SRM product master was not used in ERP functionality.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | • COM_PR_MDCHECK
• COMC_MATERIALID_ALL
• COMC_PR_ALTID
• COMC_PR_ALTID_BSP
• COMC_PR_OBJ_FAM
• COMC_PR_OBJ_FAM1
• COMC_PR_RFCDEST
• COMC_PRODUCT_IDX
• COMC_SERVICEID_ALL
• COMCMATERIALID
• COMCPRAUTHGROUP
• COMCPRD_BSP_ID
• COMCPRFORMAT
• COMCPRLOGSYS
• COMCPRMSG
• COMCPRTYPENRO
• COMCSERVICEID
• COMM_DEL_PRWB_USER
• COMM_EXTRSET
• COMM_HIERARCHY
• COMM_IOBJ_RECATEG
• COMM_MSG01
• COMM_PRAPPLCAT
• COMM_PRDARC
• COMM_PROD_RECATEG
• COMMPR_PCUI
• COMMPR01
• COMMPR02
• CRM_PRODUCT_LOG
• CRM_PRODUCT_STA
• CRMCFSPRODID |

**Required and Recommended Action(s)**
In SAP S/4HANA the COMM* tables (COMM_PRODUCT, COMM_HIERARCHY) are no longer available. It is recommended that users archive the ABAP Basis COMM* product master tables and proceed with the upgrade.

In a non-productive client, use reports COM_PRODUCT_DELETE_ALL to delete products and COM_HIERARCHY_DELETE_ALL to delete hierarchies.

For productive clients, set the deletion indicator using transaction COMMPR01 and archive the products using transaction SARA, then delete the hierarchies using COMM_HIERARCHY.

For SRM-OneClient deployment the users should be aware that the SRM product master data is not accessible after S/4 conversion.

### 3.3 S4TWL - Logistics Batch Management

**Application Components:** LO-BM-MD

**Related Notes:**

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<th>Note Type</th>
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<td>S4TWL - Logistics Batch Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The following transactions related to Logistics Batch Management are not available in SAP S/4HANA, on-premise edition 1511: MSC1, MSC2, MSC3 and MSC4. The functional equivalent in SAP S/4HANA, on-premise edition 1511 are the following transactions:

- MSC1N Create Batch
- MSC2N Change Batch
- MSC3N Display Batch
- MSC4N Display Change Documents for Batch
As of Release 4.6A, the maintenance of batch master data has been completely reworked and assigned to new transaction codes. Already at this point in time it was recommended to use the new transaction codes (MSC*N). The previous transactions and with that the belonging program code are not available within SAP S/4HANA, on-premise edition 1511.

**Business Process related information**

No influence on the business process – alternatively mentioned transaction codes need to be used.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>MSC1</th>
</tr>
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<tr>
<td></td>
<td>MSC2</td>
</tr>
<tr>
<td></td>
<td>MSC3</td>
</tr>
<tr>
<td></td>
<td>MSC4</td>
</tr>
</tbody>
</table>

### 3.4 S4TWL - Product catalog

Application Components: LO-MD-PC

Related Notes:

<table>
<thead>
<tr>
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<th>Note Number</th>
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<td>S4TWL - Product Catalog</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
Product Catalog functionality was used in the past as means of integration to web-channel solutions.

Hybris is the strategic solution to support web-channel processes, with the respective backend Integration. Thus, Product Catalog functionality is not part of the target architecture.

**Business Process related information**

Hybris is the strategic solution to support web-channel processes, with the respective backend Integration. Thus, integration via Product Catalog is not part of the target architecture in SAP S/4HANA.

If the Product Catalog was used for other integration scenarios as the one mentioned above, a switch to alternatives available in S/4HANA is required.

**Required and Recommended Action(s)**

There are other communication scenarios in SAP S/4HANA to send article and price information. The alternatives include e.g.:

- Article data (i.e. if retail Business Functions are active) combined with prices
  - WES SOAP Service ReplicateMerchandiseDemandManagement
  - DRF SOAP Service ProductMerchandiseViewReplication (available with SAP S/4HANA 1909)
  - Assortment List IDoc
- Article data (i.e. if retail Business Functions are active)
  - DRF SOAP Service ProductMDMBulkReplicate (available with SAP S/4HANA 2020)
  - ARTMAS IDoc
- Material data (i.e. if retail Business Functions are not active)
  - DRF SOAP Service ProductMDMBulkReplicate (available with SAP S/4HANA 2020)
  - MATMAS IDoc
- Prices (independent of retail Business Functions)
  - DRF SOAP Service SalesPricingConditionRecord (available with SAP S/4HANA 1909)
  - COND_A IDoc

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA.</th>
<th>WCU1 Maintain customer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WCUM Maintain customer</td>
</tr>
<tr>
<td></td>
<td>WPC1 Prepare product catalog IDocs</td>
</tr>
<tr>
<td></td>
<td>WPC2 Prepare item IDocs</td>
</tr>
<tr>
<td></td>
<td>WPC3 Prepare catalog change IDocs</td>
</tr>
</tbody>
</table>
WPC4 Prepare item change IDocs
WPC5 Convert product catalog
WPCC Prepare prod. catalog change IDocs
WPCI Prepare product catalog IDocs
WPCJ Prepare product catalog IDocs
WW10 IAC product catalog
WW20 IAC Online Store
WW30 SD part for IAC MM-SD link
WWCD Product catalog: Display change docs.
WWM1 Create product catalog
WWM2 Change product catalog
WWM3 Display product catalog
WWM4 Copy product catalog
WWM5 Delete product catalog

Till SAP S/4HANA 1909 FPS0, transactions WWM1, WWM2, WWM3, WWM4, WWM5 can be executed. That is an error. In the blocklist (table ABLM_BLACKLIST) these transactions are only excluded for Cloud. They should be excluded for usage on-premise as well. This will be corrected in a future release.

**Required and Recommended Action(s)**

Switch to strategic solution.

In case you reuse ABAP objects of packet WWMB or WWMI in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if Product Functionality is used.
This is the case if any of the following transactions are used: WCU1, WCUM, WPC1, WPC2, WPC3, WPC4, WPC5, WPCC, WPCI, WPCJ, WW10, WW20, WW30, WWCD, WWM1, WWM2, WWM3, WWM4, WWM5.

### 3.5 S4TWL - Object Identifier Type Code

Application Components: CA-MDG-KM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267294</td>
<td>S4TWL - Object Identifier Type Code</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The field NO_CONVERSION is not available in the definition of object identifier type codes (also known as scheme IDs – table MDGI_IDSTC_BS). Any existing usages have already been switched to non-conversion data elements in their key structures. In the "key mapping" IMG activity "Define Object Identifiers", the checkbox "No Conversion" was removed, as it was not considered any more.

Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

None

3.6 S4TWL – Deprecation of 4 fields from FSBP table BP1010

Application Components:FS-BP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td><strong>3216733</strong></td>
<td>S4TWL - Rating fields of table BP1010 (Creditworthiness Data) of FSBP enhancement to SAP BP will become obsolete</td>
</tr>
</tbody>
</table>

Symptom

You execute a system conversion from ERP to S/4HANA or an upgrade from a lower S/4HANA release to a higher one (higher than 2023 - in S4/HANA 2023 the functionality will still be available).
The four fields SOL_INS (Institute Providing Credit Standing Information), SOL_TXT (Additional credit standing information), SOL_I_D (Date of Credit Standing Information) and RATING (Rating) of the Financial Services Business Partner table Creditworthiness Data (table name BP1010) will become obsolete in a future release. The data contained in these fields have to be migrated to the ratings table BP1012. This note has the purpose to make you aware of this change. The migration can already be executed by customers now, however only if they do not use either of the applications Loans Management and Treasury Management, which still access the 4 fields that will become obsolete.

**Reason and Prerequisites**

The four mentioned fields in Financial Services Business Partner table for Creditworthiness Data must not be used any more from a future S/4HANA release onwards. Reason is that these fields have the character of a rating and for ratings there is a separate table available. There is a migration report available already, which can be used to migrate these fields into a rating entry in table BP1012. At the moment this migration cannot be executed as long as you use either of the two applications Treasury Management or Loans Management. In addition the switch (FSBP_MIGCS_SWITCH - can be displayed in transaction SFW1) can currently not be activated in order to make sure that the four obsolete fields cannot be maintained/displayed any more. Reason for this is that there is currently no business function available that is assigned to this switch.

**Solution**

**Procedure for determining the relevance (relevance condition):**

"The migration needs to be executed as soon as there is at least one entry in one of the four mentioned fields of table BP1010 in any of the clients of your system apart from 000 and 066."

We have also provided a consistency check class that is triggered by the SUM process. Currently the SUM process does not return any warning or error if the relevance condition is true. But as soon as we enforce the migration in a future release our check class will return an error and the SUM process will be stopped, in case the above relevance condition is true. With this the migration will then be enforced.

**Required and recommended actions**

In case you do not use TRM or CML appilcation you may already now execute the migration from BP1010 to BP1012 (for the 4 obsolete fields). See below for more details.

Currently - however - it is not possible to activate switch FSBP_MIGCS SWITCH, which would remove the 4 obsolete fields from transaction BP and corresponding IMG activities from transaction SPRO. Reason is that there is no business function assigned to
this switch. We are currently working on the creation of a business function. As soon as the business function is available we will update this note.

If you would like to execute the conversion (provided that you do not use TRM and CML), please find information below how to execute the migration.

In SAP note 1765305 (after new business function is available we will probably provide a new note) you can find an ASU Toolbox Content XML file that can be started using the so-called ASU-Toolbox. With this you are guided through the migration. Activating the business function is currently not possible, the other steps should however be possible, so that you can execute the migration.

The main steps are the following:

1. Activate business function FSP_FSBP_MIGRATION_CS (manual step) (currently not yet possible!)
2. Check whether data needs to be converted (automatic step when executing the XML in the ASU toolbox)
3. Analyze and configure Customizing settings for mapping (Customizing - manual step)
4. Execute Report FSBP_MIGCS_MAPPING_EDIT for customizing assignment (automatic step)
5. Mass conversion of credit standing data to ratings (report FSBP_MIGCS_MASS_MIGRATION, automatic step)

You will be guided through the whole process supported by the system after starting ASU toolbox. For details how to start this guided process please check note 1765305 and the referenced note 1000009.

**Other Terms**

SAP Business for Financial Services, Business Partner, SAP BP, FSBP, SOL_INS, SOL_TXT, SOL_I_D, RATING, BP1010, BP1012, Creditworthiness data, ratings

**3.7 S4TWL: Business partner data exchange between SAP CRM and S/4HANA**

Application Components:S4CORE, CRM-MD-BP-IF

Related Notes:
Symptom

This SAP Note is relevant for you if the following applies:

- You are using an SAP ERP release and support package that is lower than the following releases and support packages:
  - SAP enhancement package 6 for SAP ERP 6.0
  - SAP enhancement package 7 (SP11) for SAP ERP 6.0
  - SAP enhancement package 8 (SP01) for SAP ERP 6.0
- You are using a live integration of SAP CRM and SAP ERP.
- You are planning to convert from SAP ERP to SAP S/4HANA, on-premise edition.
- You are planning to activate the customer vendor integration (CVI) in SAP ERP and start a mass synchronization based on the customer master or vendor master (Customizing activity Synchronization of Mass Data) to generate business partners.

Introduction

In SAP S/4HANA, on-premise edition, the central business partner approach is mandatory. The master data is processed using the SAP Business Partner in combination with an activated CVI, and the customer or vendor master is updated automatically in the background. For more information, see the simplification item Business Partner Approach (SAP Note 2265093).

If you have not worked with the CVI beforehand, you need to activate it and generate business partners before converting your system to SAP S/4HANA, on-premise edition. In addition, you have to make settings to set up the business partner data exchange between SAP S/4HANA, on-premise edition and SAP CRM.

Business Process Information

There is no effect on business processes if the settings are performed as described in this SAP Note.

Required and Recommended Actions

Note that you must perform the pre-conversion actions described in this SAP Note before activating the CVI and starting mass synchronization.
Reason and Prerequisites

System landscape with CRM and S/4 HANA is planned or available

Solution

1. Required Actions in SAP ERP

A Business Add-In (BAdI) implementation has been provided to ensure that the mass synchronization does not generate new GUIDs instead of using the existing GUIDs from the CRM mapping tables. The BAdI is contained in SAP Note 2283695.

It is imperative that SAP Note 2283695 is implemented before the Customer Vendor Integration (CVI) is activated and the mass synchronization of customer master or customer vendor data for the generation of business partners is started. If you start the synchronization before SAP Note 2283695 has been implemented, the mapping between business partners that is used in an integration scenario with SAP CRM is irretrievably lost.

A check report has been provided to examine whether the BAdI implementation is available in your system. In addition, a check report is available that identifies any existing inconsistencies (if you have been using an active CVI already) or any inconsistencies that appear after mass synchronization. For more information about the check reports, see SAP Note 2304337.

2. Required actions in SAP S/4HANA, on-premise edition

*Settings for integration of SAP CRM with SAP S/4HANA, on premise-edition 1511 Feature Package Stack 01*

If you want to integrate your SAP CRM system with SAP S/4HANA, on premise-edition 1511 FPS 01, several limitations apply to the exchange of business partner data. For more information, see SAP Note 2231667. Most of the limitations are resolved with SAP S/4HANA, on premise-edition 1511 FPS 02.

In the integration scenario with SAP S/4HANA, on premise-edition 1511 FPS 01, you must make the settings described in SAP Notes 1968132 and 2070408.

*Settings for integration of SAP CRM with SAP S/4HANA, on premise-edition 1511 FPS 02, or a higher FPS*

You need to adjust the settings in transaction COM_BUPA_CALLFU according to SAP Note 2283810.

Download Objects and Filters
(Note that the download objects named in the following paragraph are located in S/4HANA, on-premise edition, and the transactions are located in SAP CRM.)

We recommend to use the download objects BUPA_MAIN and BUPA_REL for initial loads and request. Due to the fact that in SAP S/4HANA, on-premise solution, the SAP Business Partner is the main master data object for processing customer and vendor master data, the download objects BUPA_MAIN and BUPA_REL now also support all general, customer-specific, and vendor-specific data.

Download object VENDOR_MAIN is not available. The download objects CUSTOMER_MAIN and CUSTOMER_REL continue to be available for initial loads (transaction R3AS) and requests (transactions R3AR2 and R3AR4). We recommend that you only use these download objects for specifying filters that are specific to the customer master, like sales area details, account IDs, and partner functions.

In addition, filter conditions maintained in transaction R3AC1 for CUSTOMER_MAIN and CUSTOMER_REL continue to be considered when downloading business partners and their related customers from SAP S/4HANA, on-premise edition, to SAP CRM.

3. Miscellaneous required actions

See SAP Note 2286880 for handling error messages regarding SEPA and partner functions in SAP CRM. No manual actions are required after implementing the SAP Note.

If you have implemented the user exits DE_BALE or DE_AALE in SAP ERP, see SAP Note 2289876.

For further information about business partner synchronization, see SAP Note 2265093.

Other Terms

CUSTOMER_MAIN, CUSTOMER_REL

BUPA_MAIN, BUPA_REL

VENDOR_MAIN

R3AR2, R3AR4, R3AS, R3AC1

COM_BUPA_CALL_FU
3.8 S4TWL - HANA-based Analytics for Master Data Governance

Application Components: CA-MDG-ANR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2375319</td>
<td>S4TWL - HANA-based Analytics for SAP Master Data Governance</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in case SAP Master Data Governance is used.

**Solution**

**Description**

SAP HANA-based Analytics for SAP Master Data Governance is not available within SAP S/4HANA, on-premise edition 1511 and higher.

**Business Process related information**

With this system conversion the content generation for SAP HANA-based Analytics for SAP Master Data Governance is no longer available.

**Required and Recommended Action(s)**

The following check is only required in case that you have SAP Master Data Governance in active usage. In this case please check if also SAP HANA-based Analytics for SAP Master Data Governance is set up and running.

**How to Determine Relevancy**

Check if content for SAP HANA-based Analytics for SAP Master Data Governance has been generated. This can be done via the following steps:

- Use transaction SLG1 and check if log entries for MDG_ANA_HANA are existing.
- Check if generated content is available on one of the SAP HANA Databases that are connected to the according system. This can be done for example by looking for calculation view 'ChangeRequestHeader'.
3.9 S4TWL - Business Partner BUT000/Header Level Time Dependency

Application Components: LO-MD-BP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2379157</td>
<td>S4TWL - Business Partner BUT000/Header Level Time Dependency</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

*** Note : The attachment of this note has been changed with a new report (Z_NTD_BUT000_NEW) on 2nd Jan, 2018 to improve the performance. ***

Business Value

Time dependency has been disabled at the header level of BUT000 in SAP S/4HANA to ensure that there are no inconsistencies in the master data.

Description

The time dependency functionality in Business Partner is not supported in the header level (BUT000). Though the functionality is available through SPRO, SAP strongly recommends that the end user should NOT maintain the header level data using Customizing.

Customers who have activated time dependency in SAP ERP before the SAP S/4HANA system conversion or in the SAP S/4HANA, on-premise edition 1511 release, refer to the section Required and Recommended Action(s).

Business Process Related Information
Switch-on and switch-off of the time dependency at BUT000 level will result in certain additional activities. For instance, switching OFF the table BUT000_TD converts the time dependent entries to time independent entries.

Once the BUT000_TD is ON, we can create time slice for central BP. The currently valid time slice will be stored in BUT000 table and the past/future time slice will be stored in BUT000_TD table.

When BUT000_TD is switched OFF:

- If the BP had split validities in BUT000 and BUT000_TD tables, you will not be able to open or edit this BP.
- The following error message appears:
  “Data set BUT000 for BP 0000000XXX maintained time-dependently, despite inactive Time dep.” message appears (Hot News Note 1759416).

**Required and Recommended Action(s)**

For customers who have not enabled time dependency:

- Do not enable the time dependency at the header level (BUT000) using SPRO.

For customers who have enabled time dependency in releases prior to 1610/11:

You need to deactivate time dependency. It is a one-time process.

1. Run the report BUPTDTRANSMIT which will make BUT000 data up to date.
2. Run the report Z_NTD_BUT000_NEW attached with this Note. To run this:
   1. Call up SE38.
   2. Enter Z_NTD_BUT000_NEW and choose Create.
   3. Choose type as Executable Program.
   4. Paste the code content from the attachment.
   5. Save, activate, and then execute the report.
3. This Z report will delete all the BUT000_TD entries (past and future entries) and extend the BUT000 entries (current entry) from 1.1.0001 to 31.12.9999 (which means loss of past/future data). Also, it will deactivate TD for BUT000 in V_TB056 view. Now you will not be able to maintain future/past entries for central BP.

**Notes:**

- The report Z_NTD_BUT000_NEW has a test run mode and *BP range* as the selection parameter.

**How to Determine Relevancy**
This simplification item is relevant when time dependency is enabled for BUT000 at the header level. Meaning, the simplification item is relevant when DEV_ISACTIVE is X for development object (field DEVELOP) BUT000 (or) ALL_BP_TD in V_TB056 view. When the time dependency is enabled, BUT000_TD will have atleast one entry.

Other Terms

Time dependency, BUT000, BUT000_TD, S/4HANA

3.10 S4TWL - BADI ADDRESS_SEARCH (Duplicate Check) is Not Supported in SAP S/4HANA

Application Components:LO-MD-BP

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2416027</td>
<td>S4TWL - BAdI ADDRESS_SEARCH (Duplicate Check) Neither Certified Nor Supported for SAP S/4HANA Fiori</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to S/4HANA On Premise. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

The BAdI ADDRESS_SEARCH was not designed to meet the newer generation codings of SAP S/4HANA which gets called in Fiori smart template apps such as Manage Customer Master, Manage Supplier Master and so on. When this BAdI is activated, the apps generate errors such as program termination, or run time exceptions occur.

Solution

Business Value

The BAdI ADDRESS_SEARCH is not compatible with the new generation code of SAP S/4HANA Fiori and hence it is neither certified nor supported.

Description
The duplicate check using the BAdI ADDRESS_SEARCH to find duplicate addresses is neither certified nor supported in SAP S/4HANA Fiori. The BAdI is available with the standard implementation and will be inactive. If there is a requirement to use the BAdI, it can be used for SAP GUI applications.

**Business Process related information**

This BAdI was used to implement a check that identifies potentially duplicate addresses (in create and edit mode) and notifies the user. The user could decide whether the new account or contact is required or is in fact a duplicate of an existing account or contact. While not supporting this BAdI implementation for Fiori applications, SAP S/4HANA is in a conceptualize stage for a better solution for Fiori Apps.

**Required and Recommended Action(s)**

Be informed that the BAdI ADDRESS_SEARCH for duplicate check is no more certified and supported for Fiori Apps.

**How to Determine Relevancy**

This is relevant for all SAP S/4HANA customers.

**Other Terms**

Duplicate Check, BAdI SIC_ADDRESS_SEARCH, BAdI ADDRESS_SEARCH

### 3.11 S4TWL - Business Partner Hierarchy Not Available

**Application Components:** LO-MD-BP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td><strong>2409939</strong></td>
<td>S4TWL - Business Partner Hierarchy Not Available</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Business Value

Business Partner hierarchy is removed in SAP S/4HANA to avoid redundancy as customer hierarchy is already available for the applications to consume.

Description

The Business Partner Hierarchy is no more available in S/4HANA. S/4HANA is in conceptualize stage for a better hierarchy solution.

Business Process related information

You will not be able to access the BP hierarchy data anymore after the system conversion to S/4HANA.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition</th>
<th>BPH, BPH_TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAPIs not available in SAP S/4HANA on-premise edition</td>
<td>BUHI_ASSIGN_BP_TO_NODE, BUHI_CLEAR_BUFFER, BUHI_DELETE_BP_FROM_NODE</td>
</tr>
<tr>
<td>IMG activity node not available in SAP S/4HANA on-premise edition</td>
<td>Business Partner Group Hierarchy</td>
</tr>
<tr>
<td>BOR Object not available in SAP S/4HANA on-premise edition</td>
<td>BUS1006004</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)

Knowledge transfer to key and end users

How to Determine Relevancy

This item is relevant if you have created and are using Business Partner Hierarchies. You can check for the existence of Business PartnerHierarchies in transaction BPH or check for the existence of entries in table BUT_HIER_TREE.

3.12 S4TWL - MDG in Lama

Application Components:CA-MDG
Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2379272</td>
<td>S4TC MDG_APPL Master Check for S/4 System Conversion Checks</td>
</tr>
</tbody>
</table>

**Symptom**

Implementation of MDG_APPL check class for S/4 transformation checks as described in SAP note 2182725.

This note implements a "Precheck DIMP/LAMA upgrade to S/4 for MDG-M (Material Governance) in software component SAP_APPL."

**Reason and Prerequisites**

If you upgrade master data material to S/4 it is recommended, to have no open change request for material (MDG-M)

If you upgrade a system with long material number (LAMA) it is mandatory to finalize (activate or delete) all open change request creating new materials, else you have to delete open change requests creating new materials in LAMA system manually after upgrade. This change requests can not processed any more after upgrade.

**Solution**

Implement the technical prerequisites for the S/4 transformation checks via this note.

**Other Terms**

S4TC

MDG_APPL

MDGM

**3.13 S4TWL - Migration of Business Partner Data specific to GST India**

Application Components: XX-CSC-IN-MM, XX-CSC-IN, XX-CSC-IN-SD

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
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</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2877717</td>
<td>GST IN: Tables J_1IMOVEND and J_1IMOCUST are not updated post S/4HANA migration</td>
</tr>
</tbody>
</table>

**Symptom**

CIN data isn’t updated in tables J_1IMOCUST and J_1IMOVEND when BP is updated for customer and vendor role post S/4HANA migration.

**Reproducing the Issue**

1. Go to transaction BP.
2. Save Vendor classification/Pan number data for vendor or customer role.
3. Go to tables J_1IMOCUST and J_1IMOVEND.
4. Fields Vendor classification/Pan number isn't updated with values.

**Cause**

Customer or vendor master core data is completely integrated with Business Partner. The master data in the new transaction is being maintained in tables KNA1 and LFA1.

Fields from tables J_1IMOCUST and J_1IMOVEND are also migrated into tables KNA1 and LFA1 in S/4HANA system.

**Resolution**

Implement the note ‘2285611 - BP Enhancements for CIN’ and execute the transaction LOIN_CV_MD_MIG to migrate data from tables J_1IMOCUST and J_1IMOVEND into KNA1 and LFA1.

**See Also**

- 2421394 - GST India: SAP ERP Solution Notes
- 2285611 - BP Enhancements for CIN
- 2387589 - BP Migration Report Log issue while processing huge number of records

**Keywords**

GST, GST India, Master data, CIN, CIN data, S/4HANA, HANA, Migration, Upgrade, Conversion, XX-CSC-IN-MM, XX-CSC-IN-SD, XX-CSC-IN-FI, J_1IMOCUST,
J_1IMOGEN, field, J_1IMOGEN-VEN_CLASS, vendor classification, PAN, J_1IPANNO, LFA1, KNA1, J_1IMOGEN-J_1IPANNO, J_1IEXCIVE.

Environment

- Sales And Distribution (SD)
- Logistics Execution (LE)
- SAP S/4HANA
- This is relevant for India Localization or Country India version (CIN) component

3.14 S4TWL - MDG_MDC in Lama

Application Components: CA-MDG-CMP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<td>Business Impact</td>
<td>2442665</td>
<td>S4TC MDG_MDC Master Check for S/4 System Conversion Checks</td>
</tr>
</tbody>
</table>

Symptom

Implementation of MDG_MDC check class for S/4 transformation checks as described in SAP note 2182725.

This note implements a "Precheck DIMP/LAMA upgrade to S/4 for MDC-M (Material Consolidation and Mass Change) in software component MDG_MDC."

Reason and Prerequisites

If you upgrade master data material to S/4 it is recommended, to have no open process for material (MDG_MDC).

If you upgrade a system with long material number (LAMA) it is mandatory to finalize (activate or delete) all open processes (MDC) for materials, else you have to delete open processes manually after upgrade.

Also it is suggested to have no open imports or process drafts.

Solution

Implement the technical prerequisites for the S/4 transformation checks via this note. The note checks for active processes for materials.
Other Terms

S4TC
MDG_MDC
MDG-C

3.15 S4TWL - Batch Input for Customer Master/Supplier Master

Application Components: LO-MD-BP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<tbody>
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<td>Business Impact</td>
<td>2492904</td>
<td>S4TWL - Batch Input for Customer Master/Supplier Master</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

*Batch Input* as a technology to maintain customer master and supplier master data will not be supported in release from SAP S/4HANA 1809 onwards.

Since we follow "Business Partner first" approach in SAP S/4HANA, Batch Input programs will now work with API based approach which would replace the traditional Batch Input technology as classical customer and supplier transactions have been made obsolete.

As an alternative, we recommend the usage of the following:

- Business Partner SOAP Services. Refer to SAP Note 2472030 for more information.
- IDocs (CREMAS/DEBMAS)
- Mass Transactions (XK99/XD99)

Business Process related information
No influence on business processes is expected.

**Required and Recommended Action(s)**

Please check if you use *Batch Input* for creating/changing customer master or supplier master data. If yes, please switch to the recommended alternatives.

### 3.16 S4TWL - API RFC_CVI_EI_INBOUND_MAIN is obsolete

Application Components: LO-MD-BP

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2506041</td>
<td>S4TWL - API RFC_CVI_EI_INBOUND_MAIN is not supported from the release S/4 HAN</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OP 1709 FPS2 and in Cloud Edition 1805 onwards</td>
</tr>
</tbody>
</table>

**Symptom**

Customer is migrating to SAP S/4HANA on-premise edition, and they are using function module RFC_CVI_EI_INBOUND_MAIN to migrate business partners.

**Reason and Prerequisites**

RFC_CVI_EI_INBOUND_MAIN in SAP S/4HANA, was initially used to migrate business partners.

**Solution**

**Description**

RFC_CVI_EI_INBOUND_MAIN is used to update/create BP in S/4 HANA. However, it is not the recommended approach as it doesn't cover all the features.

RFC_CVI_EI_INBOUND_MAIN is not an officially released SAP Function module and was created for internal use only. Hence, it has been decided to stop supporting this function module from the OP release 1709 FPS2 and in Cloud Edition 1805 onwards.

Customers should refer to the SAP Note 2417298 for maintenance of Business Partners.

**Business Process related information**
No impact on business processes is expected.

**Required and Recommended Action(s)**

Check if you use *RFC CVI_EI_INBOUND_MAIN* for creating/changing customer master or supplier master data. If yes, please switch to the recommended alternatives in the SAP Note 2417298.

**Other Terms**

Business Partner, RFC CVI_EI_INBOUND_MAIN, Customer Master, Supplier Master

### 3.17 S4TWL - Removal of Gender Domain Fixed Values

**Application Components:** LO-MD-BP, BC-SRV-ADR, BC-SRV-BP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2928897</td>
<td>S4TWL - Removal of Gender Domain Fixed Values</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Support for new gender codes in SAP Business Partner, Business Address Services, Customer and Supplier Master

**Solution**

**Description**

You are looking to maintain additional gender values such as Neutral or Diverse in SAP Business Partner (BP). It was not possible to maintain gender values other than Male, Female and Unknown in a Business Partner so far. With S/4HANA On-premise 2020, in addition to the existing values Male, Female and Unknown, two new gender values are available in Business Partner master data:
Nonbinary - an identity other than male or female. For example, Divers in Germany.
Not specified - any identity with legal rights; but chooses not to specify the gender

Further details are available in SAP Help documentation for S/4HANA 2020.

To support new gender codes, the existing fixed values for gender related domains in Business Partner data model have been replaced with new value tables. These value tables will hold gender codes Male, Female and Unknown (existing from older releases) and new gender codes Nonbinary and Not specified (new from S/4HANA 2020)

**Business Value**

SAP Business Partner now provides a possibility to maintain gender codes other than Male and Female maintainence.

**Business Process relation Information**

All business processes which involve maintenance of Business Partner Master Data and in that specifically the Gender information for the Business Partner are affected. This includes primarily Business Partner maintenance via

- Transaction BP
- Fiori Apps for Business Partner, Customer and Supplier maintenance
- Supported external interfaces for like oData, SOAP, iDocs
- Released APIs

SAP delivered business processes have been adjusted to make use of new value tables for gender codes instead of domain fixed values. Further sections in this Note provide guidelines on relevancy and recommended actions for customer specific coding for Business Partner maintenance.

**Compatibility Considerations**

To support the new gender codes, a new field GENDER has been introduced in Business Partner main table BUT000. This field will support all existing gender codes (Female, Male and Unknown) and new gender codes (Nonbinary and Not Specified). To ensure compatibility, old fields XSEXF, XSEXM and XSEXU from the table BUT000 will continue to be maintained with gender values when chosen gender value is Female, Male, or Unknown.

Similarly, a new field GENDER has been introduced in the interface structures and can be used to maintain all five gender codes. Existing field SEX will continue to support gender codes Female, Male or Unknown. Further details are available in the cookbook attached to this SAP Note.
How to determine Relevancy

As Business Partner is one of the most fundamental business objects in S/4HANA and as there would invariably be Business Partner of type Person in any organization, this simplification item is relevant in most customer cases.

ABAP domains listed below have been changed to support additional gender codes.

<table>
<thead>
<tr>
<th>Domain</th>
<th>Fixed Values Removed</th>
<th>Replacement Value Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>BU_SEXID</td>
<td>Female, Male and Unknown</td>
<td>TB995</td>
</tr>
<tr>
<td>AD_SEX</td>
<td>Female, Male and Unknown</td>
<td>TSAD15</td>
</tr>
<tr>
<td>SEXKZ</td>
<td>Female, Male</td>
<td>TSAD15</td>
</tr>
</tbody>
</table>

If you have custom ABAP artefacts (screens, programs, classes etc.) for BP Maintenance referring to these domains, the changes are relevant for you.

Required and Recommended actions

Attached PDF document titled 'Cookbook_GenderDomainChanges.pdf' describes in detail the how the custom adoption has to be done for the data model changes listed above.

Other Terms

Business Partner Gender Code, Nonbinary, Divers, BU_SEXID, AD_SEX, SEXKZ

3.18 S4TWL - Usage of obsolete links in tables BD001 / BC001

Application Components: LO-MD-BP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3010257</td>
<td>S4TWL - Usage of obsolete links in tables BD001 / BC001</td>
</tr>
</tbody>
</table>

Symptom

You execute a system conversion to S/4HANA 2021 or lower. If you use the customer vendor integration (CVI) and still have entries in the old link tables BD001/BC001 (Business Partner: Assignment Customer – Partner/Business Partner: Assign Vendor – Partner) you need to migrate these entries to the new link tables.
CVI_CUST_LINK/CVI_VEND_LINK (Assignment Between Customer and Business Partner/Assignment Between Vendor and Business Partner) before migration.

**Reason and Prerequisites**

With this note a new check is integrated into the pre-upgrade checks which enforces migration of the old link tables. Before migration can be executed the old link tables need to be migrated to the new ones.

**Solution**

**Procedure to determine relevance**

- A new check class is integrated into the simplification element check report /SDF/RC_CHECK_START. (This is delivered as part of note-3009162 - Simplification Check in BD001 and BC001 Tables)

- This class checks if there are still unmigrated entries in the database tables BD001/BC001. If so, a migration is not possible.

- In detail the following checks are made:
  - select all entries from BD001/BC001 tables.
  - For all entries found in BD001 select entries in CVI_CUST_LINK
  - For all entries found in BC001 select entries in CVI_VEND_LINK
  - if at least one entry is found in BD001 that is not available in CVI_CUST_LINK or in BC001 that is not available in CVI_VEND_LINK an error is returned by the check class.

- An error in the check class means that the migration cannot be executed until the underlying problem is solved.

**Required Action:**

In case the check class returns an error, you need to execute the two migration reports CVI_MIGRATE_CUST_LINK and CVI_MIGRATE_VEND_LINK.

After that all links should be available in CVI_CUST_LINK/CVI_VEND_LINK tables and the check should not lead to an error anymore.

**Further actions sometime after the conversion**

After the conversion all entries in the two tables- BD001/BC001 need to be deleted.
Before you do this, you should wait some time in order to be sure that the customer and BP link/Vendor and BP link is correctly working in all the relevant applications.

The deletion should be done at the latest, before you start planning the next upgrade to a higher release level of S/4HANA.

**Other Terms**

BD001, BC001, CVI_CUST_LINK, CVI_VEND_LINK, CVI_MIGRATE_CUST_LINKS, CVI_MIGRATE_VEND_LINKS

### 3.19 S4TWL - Business Partner Approach

**Application Components:** LO-MD-BP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2265093</td>
<td>S4TWL - Business Partner Approach</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, any of the listed on-premise editions -> 1511, 1610, 1709, 1809, 1909, 2020, 2021, 2022. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

In SAP S/4HANA, Business Partner is the leading object and single entry point to maintain Business Partner, Customer and Supplier (formerly known as Vendor) master data. This is to ensure ease of maintenance of the above master data and to achieve harmonization between them. Compared to classical ERP transactions, maintenance of Customer and Supplier master data via Business Partner has multiple advantages. Some of them are as follows:

- Business Partner allows maintenance of multiple addresses with corresponding address usages.
- In classical transactions, one customer can only be associated to one account group. But in Business Partner, multiple roles can be associated to the same Business Partner.
- Maximal data sharing and reuse of data which lead to an easier data consolidation.
• General Data available for all different Business Partner roles, specific data is stored for each role.
• Maintenance of multiple relationships to the same Business Partner.
• Maintenance of Time Dependency at different sub-entities roles, address, relationship, bank data etc.

Description

There are redundant object models in the traditional ERP system. Here the vendor master and customer master is used. The (mandatory) target approach in S/4HANA is the Business Partner approach.

Business Partner is now capable of centrally managing master data for business partners, customers, and vendors. With current development, BP is the single point of entry to create, edit, and display master data for business partners, customers, and vendors.

Additional Remarks:

• It is planned to check the introduction of the Customer/Vendor Integration in the pre-checks and the technical Conversion procedure of SAP S/4HANA on-premise edition 1511, 1610, 1709, 1809, 1909 and 2020. A system where the customer/vendor integration is not in place will be declined for the transition.
• The Business Partner Approach is not mandatory for the SAP Simple Finance, on-premise edition 1503 and 1605.

Business Process related information

Only SAP Business Suite customer with C/V integration in place can move to SAP S/4HANA, on-premise(Conversion approach). It is recommended but not mandatory that BuPa ID and Customer-ID / Vendor ID are the same.

The user interface for SAP S/4HANA is transaction BP. There is no specific user interface for customer/vendor like known from SAP Business Suite (the specific transactions like XD01, XD02, XD03 or VD01, VD02, VD03/XK01, XK02, XK03 or MK01, MK02, MK03 etc. are not available in SAP S/4HANA on-premise)

<table>
<thead>
<tr>
<th>Transactions not available in SAP S/4HANA on-premise edition</th>
<th>Transactions that get redirected to transaction BP:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD01,FD02,FD03, FK01,FK02,FK03,MAP1,MAP2,MAP3, MK01, MK02, MK03, V-03,V-04,V-05,V-06,V-07,V-08,V-09, V-11, VAP1, VAP2, VAP3, XD01, XD02, XD03, XD01, XD02, XD03, XK01, XK06, XK07, XK02, XK03</td>
<td>FD01,FD02,FD03, FK01,FK02,FK03,MAP1,MAP2,MAP3, MK01, MK02, MK03, V-03,V-04,V-05,V-06,V-07,V-08,V-09, V-11, VAP1, VAP2, VAP3, XD01, XD02, XD03, XD01, XD02, XD03, XK01, XK06, XK07, XK02, XK03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transactions that are obsolete:</th>
</tr>
</thead>
<tbody>
<tr>
<td>FD06, FK06, MK06, MK12, MK18, MK19, VD06, XD06, V+21, V+22, V+23</td>
</tr>
</tbody>
</table>
Points to Note in SAP S/4HANA:

In addition, note the following points while using the following functionalities in SAP S/4HANA:

- **Consumer** - While creating a consumer, ensure that you use the BP Grouping that is associated to the customer account group (Consumer) in TBD001 (Assignment of Account Group BP Grouping). Note that customer itself is a contact person, hence no further relationships can be maintained.

- **One-time Customer/Supplier** - While creating a one-time customer or supplier, ensure that you use the BP Grouping that is associated to the customer/supplier account group (One time customer/supplier) in TBD001 and TBC001 (Assignment of Account Group BP Grouping).

- The idocs DEBMS/CREMAS and cremas are not recommended for data integration between S/4HANA systems. In S/4HANA, BP is the leading object. Therefore, only customer or supplier integration should be avoided. In S/4HANA, Business Partner is the leading object. Therefore, customer or supplier only integration should be avoided. You can use Business Partner web services (SOAP) via API Business Hub for SAP S/4HANA integration. It is recommended to use IDocs only if the source system has Customer or Supplier (no Business Partner) master data.

- **Role Validity** - In SAP S/4HANA, you can maintain the validity of roles. With this feature, the user can close the (prospect) role and move to another after the mentioned validity period. For example, a business partner with prospect role can set the role change to sold-to-party by specifying the validity and by closing the previous validity.

**Required and Recommended Action(s)**

Before you begin the BP conversion from an SAP ERP system to an SAP S/4 HANA system, you have to answer the questions

- Whether the Business Partner ID and Customer-ID /Vendor ID should be the same in the S/4 HANA System?

The keys for a smooth synchronization of the ERP customer/vendor into the S/4 system with the business partner as the leading object are beside Business Partner Know-How also consistent customer/vendor data and valid and consistent custom/vendor and Business Partner customizing entries. For this reason, the customer/vendor data has to be cleaned up before it can be converted into the S/4 Business Partner.

Prepare: Pre-Checks and clean-up customer/vendor data in the ERP System

- Implement SAP S/4HANA Conversion Pre-Checks according to the SAP S/4HANA Conversion guide chapter Pre-Checks.
• Activate Business Function CA_BP_SOA.
  In case that the Business Function CA_BP_SOA not yet in the system exist, you
  have to create a new Business Function in the customer namespace with the
  switches VENDOR_SFWS_SC1 and VENDOR_SFWS_SC2. The new customer
  specific Business Function must be of type Enterprise Business Function (G) - see
  also Mandatory checks for customer, vendor and contact.
• Check CVI customizing and trigger necessary changes  e.g. missing BP Role
  Category. Define Number Assignments according to the S/4 Conversion guide
  chapter Introduce Business Partner Approach (Customer Vendor Integration).
• Check and maintain BP customizing e.g. missing tax types.
• Check master data consistency using CVI_MIGRATION_PRECHK and maintain
  consistency.
• Check and clean-up customer/vendor data e.g. missing @-sign in the e-mail
  address.

Synchronization

• Synchronization (Data load) is done via *Synchronization Cockpit* according to the
  attached BP Conversion Document.pdf > Chapter 5. *Convert Customer/Supplier
  Data into Business Partner.*
• In case of an error during the synchronization process due to data/customizing
  mismatch you can find the errors using Logs button. You can also view this via
  MDS_LOAD_COCKPIT> Monitor tab > Call PPO button in Synchronization
  Cockpit.

Conversion Process

• Conversion Process must be triggered according to the BP Conversion
  Document.pdf attached to this SAP Note.

Business Partner Post Processing

• The customer/vendor transformation is bidirectional. You can both process
  customer/vendor master records from business partner maintenance as well as
  populate data from customer/vendor processing to the business partner. After the
  successful S/4 conversion process you have to activate the post processing for
  direction Business Partner a Customer /Vendor.

**Related SAP Notes & Additional Information**

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>SAP Notes: 2211312, 2210486, 2216176</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other SAP Notes</td>
<td>SAP Note: 1623677, 954816</td>
</tr>
<tr>
<td>SAP Help</td>
<td>Refer to the attachments (in SAP Note 2265093):</td>
</tr>
</tbody>
</table>
Custom Code Adaption

If you are writing a direct write statement or a custom code on the tables mentioned in piece list SI_MD_BP, Please follow the below mentioned steps instead.

Reason and Prerequisites:

- You want to create BP/Customer/Supplier with direct write statements or a particular piece of custom code.
- You need an API to create Business Partner with Customer and Supplier roles.

The following are possible use-cases:

1. Requirement to create business partners in the same system: You can use API CL_MD_BP_MAINTAIN. Pass the data in CVIS_EI_EXTERN structure format and pass it to the method VALIDATE_SINGLE. This method validates all the data that is passed; after that, you can use the method MAINTAIN to create business partners.

2. Integration of data with various landscapes: If you want to integrate BP/Customer/Supplier master data across different systems, you can use following interfaces:

   a. IDOCs

   There are two types of IDocs available that can be used:
   1. DEBMAS: If you want to integrate customer (without BP) data between two systems, this IDOC can be used.
   2. CREMAS: If you want to integrate supplier (without BP) data between two systems, this IDOC can be used.

   b. SOA Services

   1. If the system has data of Business Partners, use SOA services for integration. Business Partner SOAP services enable you to replicate data between two systems. There are both inbound and outbound services available. Refer to SAP Note 2472030 for more information.
However, the IDocs DEBMAS and CREMAS are not recommended for data integration between S/4HANA systems. In S/4HANA, Business Partner is the leading object. Therefore, you can use Business Partner web services (SOAP) for SAP S/4HANA integration.

**Industry Specific Actions**

**IS-OIL Specific Actions:**

- In S4HANA all the IS-OIL specific fields (including customer BDRP data fields) have been adapted as per the new Framework of BP.
- The IS-OIL Fields related to Vendor and Customer now have been moved to BP under the roles FLCU01 (Customer), FLVN01 (Vendor).

**Retail Sites Specific Action:**

- Customers and vendors assigned to Retail sites are not handled by CVI synchronization (MDS_LOAD_COCKPIT) on SAP ERP as described in this note, but by a specific migration process during SAP S/4HANA conversion. See SAP Note 2310884 for more information.

**3.20 S4TWL - Reduction of Redundant Business Partner Data Storage in the 'BUTADRSEARCH'**

Application Components: LO-MD-BP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2576961</td>
<td>S4TWL - Reduction of Redundant Business Partner Data Storage in the 'BUTADRSEARCH' Table</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**
Business Value

Fields BIRTHDT, AUGRP, XDELE, XBLCK, TYPE, and REGION in table BUTADRSEARCH is no longer required as the redundancy of data storage is minimized in SAP S/4HANA.

Description

Fields BIRTHDT, AUGRP, XDELE, XBLCK, TYPE, and REGION were updated in BUTADRSEARCH if the indexing was activated in TB300 table. In S/4/HANA this is no longer required as we plan to phase this out to avoid redundant data storage. However these fields will be maintained in the respective table listed below.

- BUT000-BIRTHDT
- BUT000-AUGRP
- BUT000-XDELE
- BUT000-XBLCK
- BUT000-TYPE
- ADRC-REGION

Business Process related information

No further development is planned. We instead plan to phase this out to avoid redundant data storage.

Required and Recommended Action(s)

Be informed that the redundant storage of 'Business Partner' data in BUTADRSEARCH is only kept for compatibility reasons (customers doing a conversion that have already activated this indexing) and must not be activated by new customers.

How to Determine Relevancy

This simplification list item is relevant if TB300-ADDRSRCH_ACTIVE = ‘X’ which means the indexing is activated.

Other Terms

'BUTADRSEARCH', 'TB300'

3.21 S4TWL - Simplified Product Master Tables Related to OMSR Transaction
Application Components: LO-MD-MM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267138</td>
<td>S4TWL - Simplified Product Master Tables related to OMSR transaction</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA, the tables related to OMSR transaction("Field groups and Field selection for data screens") such as T130F (Table of Field attributes), T130A (Table of Material master field selection), T133F (Table of Material master field selection part2), etc., has delivery class E (E = Control table, SAP and customer have separate key areas). In SAP Business Suite, the delivery class of these tables is G (G= Customizing table, protected against SAP Update, only INS all).

Business Process related information

No influence on business processes expected

Required and Recommended Action(s)

Customizing the field selection for data screens in SAP namespace is not recommended anymore.

To customize the field selection settings, kindly follow the below process.

1. In OMSR/OMS9 transaction, select the field ref. you want to change.
2. Click on Copy As icon or press F6.
3. Enter the Field reference ID in allowed namespace.
4. Make the required changes for the field groups and press enter.
5. Click on Save.
6. The created field reference can be assigned to required material type / plant.
   o To assign it to a material type, go to transaction OMS2.

Open the required material type, update the Field reference. Click on Save.
To assign it to a plant, go to transaction OMSA.
Add an entry by clicking **New entries**. Click on Save.

**General Recommendation**

In S/4HANA the recommendation is to adjust the field references from a transaction based approach to a material type approach. In the SAP standard, the transaction based field references were set to optional, so that the field selection can be controlled via the field references of the material type.
In case you continue to work with a transaction based approach, you need to double-check the modifications you made to these field references after each upgrade, since the modifications to these field references might be overwritten with the SAP standard.
Changing the field selection group also has to be double-checked after each upgrade, since the modifications of the field selection groups might also be overwritten with the SAP standard.

**3.22 S4TWL - Material Number Field Length Extension**

Application Components: LO-MD-MM, CA-FLE-MAT

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267140</td>
<td>S4TWL - Material Number Field Length Extension</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

In SAP S/4HANA, the material number field length has been extended from 18 to 40 characters. This change was first implemented in SAP S/4HANA, on-premise edition 1511 and affects this release and higher releases.

**Solution**

SAP S/4HANA can support a material number with 40 characters. The appropriate related SAP development entities (domains, data elements, structures, table types, and transparent tables, external and internal interfaces, user interfaces, and so on) have been
adapted accordingly. Where required, automated logic is in place and executed automatically in case a customer converts his current SAP Business Suite system into SAP S/4HANA.

Nevertheless there might be constellations where a customer needs to be aware about. For example:

- In certain constellations there might be the requirement to adapt custom code related to the material number field length extension.
- In a multi-system landscape, the customer has to decide if and when to switch on the extended material number functionality, as the switch impacts how compatible the system communicates within a system landscape.

In the following chapters, the different aspects of the material number field length extension are described.

This note focuses on the necessary technical adjustments which are a consequence of the field length extension. These adjustments are relevant regardless of the intention to enable the extended length for material numbers in customizing or not. The decision for activation of the extended length needs to be taken based on business requirements and considering the restrictions outlined in this note, the notes referenced in this note and is completely independent of the required technical adjustments.

Overview

With SAP S/4HANA, on-premise edition 1511, the maximum field length of the material number was extended from 18 to 40 characters.

The material number field length extension was done with SAP S/4HANA and is available starting with the SAP S/4HANA, on-premise edition 1511. For the first step into SAP S/4HANA – SAP Simple Finance, on-premise edition 1503 – the maximum field length is still 18 characters long. Additional remark: SAP S/4HANA Finance 1605 based on Enhancement Package 8 is as well be based on an 18 characters long material number.

Consistent Usage in System-Internal Coding

Extending the material number means that in the coding within the system it must be ensured that 40 characters can be handled at all relevant coding places. Especially, it must be made sure that the material number will not be truncated to its former length of 18 characters as this would result in data loss.

In an SAP system, this consistent behaviour is usually ensured by the fact that all data elements used to type relevant fields are derived from the same domain, the domain
defining the technical length of the derived fields. Whenever coding uses these fields, the coding is automatically adapted when the domain changes.

For the material number itself we identified the domains that are used to define material number fields. All these domains have been extended to 40 characters.

Besides these direct usages of the material, it may be that a specific material is also used in other fields. An example may be characteristic values: A material may well be used as characteristic value. For all such fields for which a material – besides other possible values – is a valid content, it has been checked that these fields are long enough to hold the extended material number. These fields (or the underlying domains) have been extended as well. Extending further – dependent – fields of course means that the usages of the fields have been investigated as well.

Extending such “target” fields which are not material numbers by themselves was only done if the material number needs to be handled in the field, as extending a field usually trigger follow up changes. At several places, the material number is used as reference, template, or for other reasons but another (shorter) value, for example, a GUID, could be used as well. In these and other similar cases, it may be the better choice to switch to another value. Using this other value has been done at all places where this was appropriate.

Overall, the complete data flow in the system has been analysed to identify all places at which a material number was moved to a field that was not long enough for a 40 character material number. All these conflicts have been handled in one of the ways described above. Such an analysis also needs to be done in customer or partner coding.

The described changes have also been applied to parameters of all interfaces that are usually called only within one system, that is, local function modules, class methods, BAdIs etc. In the types and structures used as parameters in these local calls, the material number has simply been extended to 40 characters. The same is true for other extended fields as well. This was usually also done for unreleased remote enabled function modules as the main use case for such function modules is an internal decoupling within one system.

For interfaces that are usually called remotely, a different way has been chosen. For more information, see the specific chapter below.

**Storage of the Material Number on the Database**

Extending the material number on the database means that the field length of the MATNR field on the database has been extended from 18 to 40 characters. This has been done in all tables (and all fields within the tables) in which a material number can be stored.
Although the maximum length of the database field used to store the material number is now 40 characters, the way how the material number content is stored in the database field has not been changed compared to SAP Business Suite. This means that for such fields usually no data conversion is needed when converting from SAP Business Suite to SAP S/4HANA.

This holds especially true for pure numeric material numbers. With standard Customizing (lexicographic flag not set, i.e. leading zeroes are not significant), pure numeric material numbers are still restricted to 18 characters and will be filled up on the database only up to 18 characters by leading zeroes. This is the same behaviour as in SAP Business Suite.

Overall, the chosen way of storing material number content avoids data conversions in the database. Regarding the storage format for material number content there is no difference between conversion of existing systems and new installations of S/4HANA, the impact on data conversion was merely a factor for the chosen format. Note that data conversion will be needed when a material number is stored in a field that has a concatenated content, and the material number is part of that concatenated content: Concatenation in the code uses the complete technical length of the field (which now is 40 characters) and is also reflected in the database content. This will be explained in detail later in this Simplification Item.

If you have activated the DIMP (Discrete Industries & Mill Products) long material number or manufacturer parts number, the content that is stored in the database for the material number will need to be changed. For further information see the section below and the references therein.

The Material Number in Released External Interfaces

Usually a customer has a multi-system landscape: The ERP system is connected to miscellaneous internal and external (SAP or non-SAP) systems. Accordingly, a SAP S/4HANA system with a material number field length of 40 characters needs to consider this multi-system landscape requirement where not all related systems are able to deal with a 40 character material number.

Furthermore, it cannot be assumed that all ERP systems in a customer landscape will be converted to SAP S/4HANA at the same point in time. That means that the external interfaces used for integration have to be compatible to old versions of the interface.

This is especially relevant for the commonly used integration techniques BAPI, RFC, and IDoc as these techniques rely on a fixed length and sequence of fields in the transmitted data. Simply extending the material number field (or other extended fields) in these interfaces would therefore technically break the version compatibility.

We have decided to provide a technical-version compatibility for released external interfaces in the way that is commonly used and proposed for BAPI interfaces: The
already existing field keeps its original length and a new field has been added at the end of the structure (or as new parameter) that allows transmitting material numbers with 40 characters.

Besides this, it must be ensured that no material number (or other extended field) can be maintained in the system with a content length greater than the old length of the field. To enforce this and to make the field length extension as far as possible non-disruptive for the SAP S/4HANA customers, the extended material number functionality must be switched on explicitly. Only after this decision it is possible to allow more than 18 characters for the material number.

The changes described have been done for BAPIs, IDocs, and released remote-enabled function modules. This has additionally been implemented where necessary for remote function calls issued by the SAP S/4HANA system and for unreleased remote-enabled function modules that are used to communicate with other SAP Business Suite products like SAP SCM or SAP CRM.

A complete list of relevant function modules, IDocs, and structures that have been extended in this way can be found in the piece lists in the simplification database.

For released WebServices, adding a new field or extending the material number field was not necessary as these services usually already allow material numbers with up to 60 characters in their interfaces.

After an SAP Business Suite System has been converted to SAP S/4HANA or a SAP S/4HANA was newly installed, the extended material number functionality will by default be switched off.

System Behaviour Depending on the Extended Material Number Switch

If the extended material number functionality is NOT switched on, the system behaves as follows:

- After an SAP Business Suite System was converted to SAP S/4HANA, on-premise edition 1511, the B2B and A2A communication via BAPIs, IDocs, Web-Services, released RFCs (inbound), and remotely called RFCs (outbound) still work without further changes.
  - The shorter versions of the extended fields
    - are still part of the interfaces.
    - are still filled when sending data.
    - are still understood when retrieving data.
    - If the extended field is used as part of a communicated concatenated field, this concatenated field is still sent in the original field in the old short format and is interpreted in the inbound case in the old short format.
o The system prevents that data is created that cannot be sent via the old interface, that is the usage of the extended fields is restricted to the old length.

o Communication partners can still rely on the old known behaviour of the interfaces.

o The long version of the extended field in the interfaces is filled and interpreted, too. This means that the communication partners can already adapt their interfaces for using the long field although only short material numbers are allowed. For example, the 18 character material number is also communicated via the 40 character field. This is also true if the extended field is used as part of a communicated concatenated field: the new extended field will contain and expect the new long format.

When extended material number functionality is switched on, the system no longer guarantees that all fields are filled in a way that they can be transmitted via the old fields. Therefore the following applies:

- Material numbers and other extended fields can be used with the full length (40 characters).
- That means:
  - It cannot longer be guaranteed that the old short fields can be filled or accepted: if the material number or other extended fields are used with more than the original length, the shorter version of an extended field cannot longer be filled in the interface and is therefore left empty.
  - This is also true for concatenated keys containing extended fields. If the value that is part of the concatenate is longer than the original field length, the concatenate can only be sent and evaluated in the new format.
  - Before SAP S/4HANA, on-premise edition 1511 FPS2 the old short fields have not been filled or accepted when the extended material number functionality is switched on. This has been changed with SAP S/4HANA, on-premise edition 1511 FPS2:
    - If the current value of the material number or the current value of another extended field still fits into the old short field in the interface, the short field is filled in outbound and accepted in inbound as well.
    - This is also true for concatenated values: if the old format can still be used because the current value of the extended field contained in the concatenate is short enough, the old format is still sent in outbound and accepted in inbound in the old short field.
  - Communication partner have to adjust to the new fields and data formats. Be aware: All SAP Business Suite systems are communication partners!

Internal Calls of External Interfaces
As described in the previous chapters, different strategies have been chosen for internal and for released external APIs.

If a released external API is called internally, that is locally within one system, it is always ensured that the call can be done with new extended field length, no compatibility is required. Therefore – and to be safe when extended material number functionality is activated – all internal calls of external interfaces must only use the newly added extended fields.

This is also true if structures are used internally that are also used in released external interfaces and that therefore have been changed in the way described. Then only the new extended field shall be used in all internal coding, too.

**System Settings to Activate the Extended Material Number Functionality**

The default setting, both after the move to SAP S/4HANA and for new installations, is that the extended material number functionality is NOT activated. To use a material number with 40 characters, the customer needs to activate this functionality. The following settings are required for that:

1. Activation of the Extended Material Number Functionality
   - The activation is realized as client-dependent customizing table.
   - IMG à Cross-Application Components à General Application Functions à Field length Extension à Activate extended fields
   - Alternative: Transaction FLETS (For the table maintenance the authorization group FLE [authorization object S_TABU_DIS] is required).

2. Changing the Material Number Format
   - Transaction OMSL allows a customer-specific settings regarding the material number field length. Here the settings need to be adapted to allow a field length of more than 18 characters.
   - **Define Output Format of Material Number** can be accessed via IMG (à Logistics General à Material Master à Basic Settings)

Note:
If the extended material number functionality is activated in a system, it cannot be easily deactivated as values may exist in different fields that are only allowed with extended material number.

**The Long Material Number within the DIMP Add-On (Discrete Industries & Mill Products)**

The extension of the material number is a well-known requirement in SAP Business Suite requested by several customers. An Add-On solution was provided several years ago as part of the industry solution Discrete Industries & Mill Products (DIMP). The so-called *DIMP LAMA-functionality* is a part of the industry solution Automotive which is one...

Although the industry solution DIMP is part of SAP S/4HANA, the already existing DIMP LAMA-functionality for a long material number (LAMA) will not be part of SAP S/4HANA. In S/4HANA the material number is natively extended to 40 characters. Special conversion steps are needed to migrate the existing DIMP LAMA solution to the new S/4HANA extended material number.

For further information on the conversion of the DIMP LAMA-functionality and the DIMP Manufacturer Parts Number to S/4HANA please check notes 2270396 and 2270836.

**ALE Change Pointers**

ALE change pointer entries related to Master Data Distribution (see SAP Help: [LINK](#)) have to be processed completely upfront to the move to SAP S/4HANA. Changes recorded before conversion will no longer be available compatibly after conversion to SAP S/4HANA.

**SAP Notes and Restrictions related to Material Number Field Length Extension**

**Conversion Pre-Checks related to Material Number Field Length Extension**

- It’s recommended to execute conversion pre-check (for details see SAP Note: 2216958). For the conversion of selection variants see SAP Note 1696821 for details.
- Note that code adaptions will be needed even if you decide not to activate the extended material number functionality and stay with 18 characters

**Custom Code related information**

- See SAP Note: 2215424, 2215852

**Restrictions**

- SAP S/4HANA restriction note:
  - 2214213 for SAP S/4HANA, on-premise edition 1511
  - 2333141 for SAP S/4HANA 1610
- Collection of restriction related to MFLE: 2233100
  - ALE generation for BAPIs: SAP Note 2232497
  - Extended Material Number in Suite Integration: SAP Note 2232396
  - Extended Material Number Display in Archived Data: SAP Note 2232391
  - Length of Customer and Supplier Material Number: SAP Note 2232366

- Extended Material Number in LIS: SAP Note 2232362
- Product Structure Browser: SAP Note 2229892
- Characteristic Values in PLM: SAP Note 2229860

Other Terms

18 digits, 40 digits

3.23 S4TWL - Simplification of copy/reference handling

Application Components: LO-MD-MM

Related Notes:

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<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2330063</td>
<td>S4TWL - Simplification of copy/reference handling</td>
</tr>
</tbody>
</table>

Symptom

During the preparation of the migration to an S/4 system, the preliminary checks return either an error or a warning with the check ID SAP_APPL_LO_MD_MM_T130F_CHECK. The error message indicates that the table T130F contains entries that are either not yet included in the table T130F_C or that have differing contents.

In an S/4HANA system, the entries delivered by SAP can no longer be adjusted customer-specifically, with the result that deviating settings are overwritten with the SAP delivery settings during an upgrade. To prevent any customer-specific settings in T130F for the copy control being replaced in the material master and the article master, an SAP S/4HANA system Release 1610 or higher contains an additional Customizing table T130F_C. This allows alternative maintenance of the copy control to the SAP delivery. The settings in T130F_C are then taken into account during the maintenance of material master and article master data.

Therefore, all entries from the table T130F that are relevant for the copy control must be copied to the new table T130F_C, and their field contents must be identical.

If the precheck issues a warning message, it may be the case that the fields relevant for copying control from T130F have to be copied to the new table T130F_C. However, it is only necessary to copy the entries if the S/4HANA target release is higher than or equal
to SAP S/4HANA 1610. In this case, it is advisable to migrate the entries from T130F to the table T130F_C to when the warning appears, as described in the "Solution" section. Otherwise the system will later issue an error message during the migration phase when you execute the precheck because the system only then contains the information concerning the S/4HANA target release to which the data is migrated. To proceed further, you must then first carry out the data migration.

If the S/4HANA target release is equal to SAP S/4HANA 1511, the system only issues a warning during the migration phase because the new table does not exist in this release. In this case, proceed with the migration process.

If you use an SAP ERP for Retail system that requires at least the S/4HANA target release version SAP S/4HANA 1610, the system issues an error message at all times if the precheck determines inconsistencies. The data migration must be carried out in any case.

**Reason and Prerequisites**

You want to migrate an SAP ERP system to an S4 system Release SAP S/4HANA 1610.

**Solution**

**Business value**

The information provided in this Simplification Item ensure that customer-specific settings referring to the copy control of fields in the product master are still available after the migration to S/4HANA. This means that the copy control in S/4HANA will work in the same way as before the migration. The changes explained above under "Symptom" are necessary to define the “Virtual Data Model” (VDM), which is needed for the new SAP Fiori application.

**Description**

In SAP S/4HANA, the table type of the table T130F has been changed so that the entries delivered by SAP can no longer be changed in a customer system without a modification. It is simply possible to create new, customer-specific entries in customer namespaces predefined especially for the purpose. However, since some of the fields in T130F control the copy behavior during the creation of products, and in Retail also when you change them, these settings should be retained during a migration. For this purpose, the relevant fields of T130F must be copied beforehand to a new Customizing table T130F_C so that these settings can continue to be defined customer-specifically.

**Required and recommended actions**

Execute the migration precheck.
Implement the report RMMT130F_CPY in your SAP ERP system with the aid of SAP Note 2323185. In addition, you must implement the new table T130F_C in your system based on the correction instructions in SAP Note 2324325.

Execute the report with the standard settings. If entries are to be migrated, remove the indicator for the test mode on the initial screen and execute the report again. Check the messages output to establish whether the entries in all clients have been migrated successfully.

**Related SAP Notes**

| Migration precheck | SAP Note: 2206932 |
| Migration report   | SAP Note: 2323185, 2324325 |

**Other Terms**

SAP_APPL_LO_MD_MM_T130F_CHECK S4 T130F field control

**3.24 S4TWL - Foreign Trade fields in Material Master**

Application Components: LO-MD-MM

**Related Notes:**

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<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2267225</td>
<td>S4TWL - Foreign Trade fields in Material Master</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

1.1.1.1 Description

The Foreign Trade functionality as part of Sales & Distribution is not available within SAP S/4HANA Product Master Data, from on-premise edition 1511. For more information see Simplification Item related to Foreign Trade in Sales & Distribution

The below mentioned fields for **Letter of Credit**/ **Legal control**/ **Export control**/ **Preference management** in Foreign Trade is not available through Material Master:
• CAP product list no. (MARC-MOWNR)
• CAP prod. group (MARC-MOGRU)
• Preference status (MARC-PREFE)
• Vendor decl. status (MARC-PRENE)
• Validity date of vendor declaration (MARC-PRENG)
• Exemption Certificate (MARC-PRENC)
• Exemption Cert. No. 9 (MARC-PRENO)
• Iss.date of ex.cert. (MARC-PREND)
• Military goods (MARC-ITARK)

1.1.1.1.2 Related SAP Notes

| General information about this Simplification Item | SAP Note 2204534 |
| Information about the report | ZUPDATE_MARC_FOREIGN_TRADE |
| | SAP Note 2458666 |

**Required and Recommended Action(s)**

In case any of the fields listed above contain data, the simplification item check generates a skippable error (RC7). This indicates that the customer can request an exemption for this scenario after having acknowledged that the information provided in the description has been understood and, he can continue the conversion process without making changes to the data. The data in the above mentioned fields should be deleted in the post-conversion phase before release of SAP S/4HANA to users.

**Note:** The skippable error RC7 is only available if your note 2641097 has been implemented.

### 3.25 S4TWL - MRP fields in Material Master

Application Components: LO-MD-MM

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td><strong>2267246</strong></td>
<td>S4TWL - MRP fields in Material/Article Master</td>
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</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Simplification: MRP fields in Material Master in MM01/02/03

The SAP S/4HANA simplification is done on the following tabs in transaction MM01/02/03.

1. Lot Size data in MRP1 Tab:
   - Unit of Measure Group (MARC-MEGRU)
2. Procurement in MRP2: MRP considers quota arrangements always, henceforth it is not required to switch it on in the material master.
   - Quota arr. usage. (MARC-USEQU)
3. BOM explosion /dependent Requirement tab in MRP4
   - Selection Method (MARC-ALTSL)
4. Repetitive manufacturing /assembly /deployment strategy tab of MRP4
   - Action control (MARC-MDACH)
     - This field is made available from SAP S/4HANA 2020. However, there is no action required and no impact of existing data.
   - fair share rule (MARC-DPLFS)
   - push distribution (MARC-DPLPU)
   - Deployment horizon. (MARC-DPLHO)
5. Storage Location in MRP4
   - SLoc MRP indicator (MARD-DISKZ)
   - spec.proc.type SLoc (MARD-LSOBS)
   - Reorder Point (MARD-LMINB)
   - Replenishment qty. (MARD-LBSTF)
6. Also the backend database fields for these "omitted functionality" remains existing in the system.

Simplification: MRP fields in Article Master in MM41/42/43

The SAP S/4HANA simplification is done on the following tabs/views in transaction MM41/42/43.

1. Screen "Procurement" in views "MRP/Forecast Data: DC" and "MRP/Forecast Data: Store", screen "General plant parameters" in views "Other Logistics Data: DC" and "Other Logistics Data: Store"
   - Quota arr. usage. (MARC-USEQU)
2. Screen "Repetitive manufacturing/assembly" in views "MRP/Forecast Data: DC", "Logistics: DC 2" and "MRP/Forecast Data: Store"
   - Action control (MARC-MDACH)
• This field is made available from SAP S/4HANA 2020. However, there is no action required and no impact of existing data.

3. Screen "BOM explosion/dependent requirements" in views "MRP/Forecast Data: DC", "Logistics: DC 2" and "MRP/Forecast Data: Store"
   o Selection Method (MARC-ALTSL)

4. Screen "Storage location MRP" in views "MRP/Forecast Data: DC", "Logistics: DC 2" and "MRP/Forecast Data: Store"
   o SLoc MRP indicator (MARD-DISKZ)
   o spec.proc.type SLoc (MARD-LSOBS)
   o Reorder Point (MARD-LMINB)
   o Replenishment qty. (MARD-LBSTF)

5. Also the backend database fields for these "omitted functionality" remains existing in the system.

The retail customers do not need to adapt the usage of the fields MARC-MEGRU and MARC-MDACH (the field is made available from SAP S/4HANA 2020).

**Scheduling Margin Key**

In S/4HANA, the scheduling margin key (field MARC-FHORI) is mandatory if defined in t-code OMSR. By default the scheduling margin key is not mandatory.

In ECC, the scheduling margin key (field MARC-FHORI) was mandatory if MRP Type was:

• Not reorder point planning
• Not time-phased planning

This was independent from the customizing in t-code OMSR.

**Reasons:**

• SAP strives to simplify material master maintenance in SAP S/4HANA. The scheduling margin key is not required for MRP in S/4HANA. If the scheduling margin key is not specified, then the floats before and after production will be zero as well as the opening period. Zero opening period means you should run the conversion of planned orders into production orders every day.

**Additional Information**
For more information see simplification item in Production Planning “Storage Location MRP”.

**Related SAP Notes**

<table>
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<tr>
<th>General information about this Simplification Item</th>
<th>SAP Note 2224371</th>
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<tbody>
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<td>MARC-MDACH</td>
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</tbody>
</table>

- **Action control (MARC-MDACH)**
  
  This field is made available from SAP S/4HANA 2020. However, there is no action required and no impact of existing data.

- **fair share rule (MARC-DPLFS)**
- **push distribution (MARC-DPLPU)**
- **Deployment horizon. (MARC-DPLHO)**

**Other Terms**

MRP, Simplification

**3.26 S4TWL - Material Type SERV**

Application Components: LO-MD-MM

Related Notes:

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<tr>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2267247</td>
<td>S4TWL - Material Type SERV</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Material type "SERV" for services is introduced for Product Master in S/4HANA for simplification purposes. When you use material type SERV, some fields and departments
that are irrelevant in S/4 are hidden from the screen. This gives all transactions relevant for material master, a leaner and simplified look.

The Product type SERV, as compared to the product type DIEN, has the product type group assigned (2-Services). SAP recommends that Cloud and On-Premise customers of S/4HANA use SERV over DIEN, particularly in scenarios such as lean service procurement. However, for scenarios where the subtleties of lean service procurement are not applicable, customers may use DIEN.

A new material type SERV (Service Materials) is created with reduced user departments and fields in the classical transactions: MM01/MM02/MM03.

As of SAP S/4HANA, on-premise edition 1511 release changes are done as listed below:

1. Supported user departments:
   - Accounting
   - Purchasing
   - Basic Data
   - Sales

2. The selected fields are hidden only from the material type "Service Materials", however, they are supported for other material types.

2. Below fields/tabs are not available for SERV:

   **Basic data 1**
   - EAN/ UPC
   - EAN Category
   - Product allocation
   - Assign Effected vals
   - Matl Grp Package Matls

   **Basic data 2**

   **Sales General/Plant**
   - Replacement part
   - Availability check
   - Material freight grp
   - Shipping Data - Trans. Grp, LoadingGrp, Setup time, Proc. time, Base qty
   - Packaging material data - Matl Grp Pack.Mats, Maximum level, Packaging mat. Type, Stack ability factor, Allowed pkg weight, Excess wt tolerance, Allowed pkg volume, Excess volume tol., Ref. mat. for pkg, Closed
• General plant parameter - Neg. stocks, SerialNoProfile, DistProf, SerializLevel, IUID-Relevant, External Allocation of UII, IUID Type

Purchasing

• Material freight grp
• Other data - GR Processing time, Post to insp. stock, Critical Part, Source list, Quota arr. usage, JIT delivery sched.

Accounting 1

• VC: Sales order stk
• Price control nur Wert S
• Moving price
• Total Stock
• Proj. stk val. Class
• Total Value
• Valuated Un
• Accounting Previous Year (Button)
  o MovAvgPrice PP
  o Total stock
  o Total value PP
• Std cost estimate (Button)

Accounting 2

Sales: Sales Org 1

• X-distr. Chain status
• Valid from
• Dchain-spec status
• Valid from
• Min. dely qty
• Delivery Unit

Sales: Sales Org 2

• Matl statistics grp
• Product attributes - Product attribute 1/2/3/4/5/6/7/8/9/10

As of S/4HANA 1605 CE and 1511 FPS2, additionally, the following fields are not supported for Service Materials (SERV) type:

Basic data 1

- X-plant matl status
- Lab/Office
- Prod. Hierarchy
- Valid from
- Packaging material data (entire section)

Sales General/Plant


Purchasing


Accounting 1

- ML act  indicator

Sales: sales org. 2

- Product Hierarchy

Required and Recommended Action(s)

Configurations required for SERV that are part of SET:

1. Material type SERV(Table T134, delivery class: G)
   1. This attribute of SERV is provided by SET content
2. Screen sequence control(SPRO transaction: OMT3E
   1. Table T133K “Influencing Factors: Screen Sequence No.“ / Delivery
      Class: G
   2. Tables T133S and T133T are also part of SET content

Related SAP Notes

<table>
<thead>
<tr>
<th>General information about this Simplification Item</th>
<th>SAP Note 2224251</th>
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</table>
4. Commercial Project Management

4.1 S4TWL - CPM - Rate Card

Application Components: CA-CPD

Related Notes:

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<th>Note Number</th>
<th>Note Description</th>
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<td>2318716</td>
<td>S4TWL - CPM - Rate Card</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP Commercial Project Management for SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP Commercial Project Management for SAP S/4HANA, the Rate Card application is not available. Note that a functional equivalent is available.

Required and Recommended Actions

- Use alternative transactions like VK11 for appropriate business requirements.
- Inform key users and end users.

Other Terms

Rate Card, SAP Commercial Project Management, rate, CA-CPD, S/4HANA

4.2 S4TWL - Interface of SAP CPM with SAP Cloud for Customer

Application Components: CA-CPD

Related Notes:

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<th>Note Description</th>
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<td>S4TWL – Interface of SAP Commercial Project Management with SAP Cloud for Customer</td>
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</table>
Symptom

You are doing a system conversion to SAP Commercial Project Management for SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

There is no interface of SAP Commercial Project Management with SAP Cloud for Customer in SAP Commercial Project Management for SAP S/4HANA.

Required and Recommended Actions

Inform key users and end users.

Other Terms

C4C, SAP Commercial Project Management, SAP Cloud for Customer, CA-CPD, S/4HANA

4.3  S4TWL - Fiori Apps of SAP Commercial Project Management

Application Components:CA-CPD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2320143</td>
<td>S4TWL – Fiori Apps of SAP Commercial Project Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP Commercial Project Management for SAP S/4HANA. The following SAP Commercial Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description
Note that the following Smart Business analytical and transactional apps are not immediately available with *SAP Commercial Project Management for SAP S/4HANA*.

- F0709  My Commercial Projects
- F0710  Action Items in Commercial Projects
- F0779  Status Management in Commercial Projects
- F0784  Overview of Commercial Projects
- F0786  Costs and Revenues of Commercial Projects
- F0787  Analysis of Commercial Projects

**Information Related to Business Processes**

No influence on business processes is expected.

**Required and Recommended Actions**

None

**Other Terms**

SAP Commercial Project Management, CA-CPD, S/4HANA, Fiori apps

### 4.4 S4TWL - Launchpads of Gantt Chart and Commercial Project Inception

Application Components: CA-CPD

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
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<td>Business Impact</td>
<td>2318728</td>
<td>S4TWL – Launchpad of Gantt Chart and Commercial Project Inception</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP Commercial Project Management for SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The Gantt chart launch option is dependent on the business function switch `OPS_PS_HLP_2` which is not available in SAP S/4HANA, on-premise edition.
The Commercial Project Inception launch option is dependent on the business function switche OPS_PS_HLP_2 which is not available in Initial SAP S/4HANA, on-premise edition.

Solution

Description

With SAP Commercial Project Management for SAP S/4HANA, the launchpads of the following functions are not available in SAP S/4HANA, on-premise edition:

- Gantt Chart (to launch master project structures of PS projects in Gantt charts)
- Commercial Project Inception

Required and Recommended Actions

- Inform key users and end users.

Other Terms

SAP Commercial Project Management, Gantt Chart, launchpad, launch, CA-CPD, S/4HANA

4.5 S4TWL - Workbooks in Project Cost and Revenue Planning

Application Components:CA-CPD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2323806</td>
<td>S4TWL - Workbooks Delivered in Project Cost and Revenue Planning</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP Commercial Project Management for SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description
Note that the following workbooks that were delivered in SAP Commercial Project Management 1.0 are not available with SAP Commercial Project Management for SAP S/4HANA.

/CPD/PFP_A01_IRQ0001_PL_WB01  Daily Planning (with Selection Options)
/CPD/PFP_A01_IRQ0002_PL_WB01  Daily Planning
/CPD/PFP_A01_IRQ0003_PL_WB01  Weekly Planning (with Selection Options)
/CPD/PFP_A01_IRQ0004_PL_WB01  Weekly Planning
/CPD/PFP_A01_IRQ0008_PL_WB01  MRS Weekly Planning (with Selection Options)
/CPD/PFP_A01_IRQ0009_PL_WB01  MRS Daily Planning (With Selection Options)
/CPD/PFP_A02_BOQ_PL_WB01  BOQ Monthly Planning (with Selection Options)
/CPD/PFP_A02_IRQ0001_PL_WB01  Monthly Planning
/CPD/PFP_A02_IRQ0002_PICM_WB01  PICM Monthly Planning
/CPD/PFP_A02_IRQ0003_PL_WB01  MRS Monthly Planning
/CPD/PFP_M_A1_EAC_IRQ0001_WB01  EAC Forecast
/CPD/PFP_M_A1_ETC_IRQ0002_WB01  ETC Forecast
/CPD/PFP_M_A1_ETC_IRQ0004_WB01  ETC Forecast (With Selection Option)
/CPD/PFP_M_A1_POC_IRQ0003_WB01  POC Forecast
/CPD/PFP_M_A1_POC_IRQ0008_WB01  POC Forecast with Quantity and Cost (with selection option)
/CPD/PFP_M_A2_IRQ0001_PL_WB01  Periodic Planning
/CPD/PFP_M_A2_IRQ0002_PL_WB01  Periodic Planning (with Selection Options)
/CPD/PFP_M_A2_IRQ0003_PL_WB01  MRS Periodic Planning
/CPD/PFP_M_A2_IRQ0004_PL_WB01  MRS Periodic Planning (with Selection Options)
/CPD/PFP_M_A4_ETC_IRQ0001_WB01  ETC Forecast for Fiscal Period
/CPD/PFP_M_A4_ETC_IRQ0002_WB01  ETC Forecast for Fiscal Period (with Selection Options)
/CPD/PFP_M_A4_ETC_IRQ0003_WB01  ETC Forecast for Fiscal Period (with Qty and Cost)
/CPD/PFP_M_A4_ETC_IRQ0004_WB01  MRS ETC Forecast for Fiscal Period (with Selection Options)
/CPD/PFP_M_A4_ETC_IRQ0005_WB01  MRS ETC Forecast for Fiscal Period
/CPD/PFP_M_A6_IRQ0001_PL_WB01  Periodic Cash Flow Planning (with Selection Option)
/CPD/PFP_R01_Q0001_VC_WB01  Version Comparison

Required and Recommended Actions

Inform key users and end users.

Other Terms

SAP Commercial Project Management, CA-CPD-FP, S/4HANA, Workbooks, Project Cost and Revenue Planning

4.6 S4TWL - CPM - Forecast from financial plan versions

Application Components: CA-CPD, CA-CPD-FP

Related Notes:
Note Type | Note Number | Note Description
---|---|---
Business Impact | 2711002 | S4TWL-CPM-Forecast from financial plan versions

**Symptom**

You are performing a system conversion of SAP Commercial Project Management 2.0 SP08 to SAP S/4HANA 1809 FPS01. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

With *SAP Commercial Project Management for SAP S/4HANA*, the *Forecast* function which you can trigger for financial plan versions with various options is not available. Note that a functional equivalent is available.

**Required and Recommended Actions**

- Use transaction SE38 and execute the alternative program Mass Forecast and Transfer (/CPD/PFP_MASS_FORCAST_TRANSFER). This program enables you to perform in-period forecasting by selecting a cut-off date.

New KPIs (up to the cut-off date) which were available in SAP Customer Project Management 2.0 SP08 are calculated only if you select the forecast method *Based on Actuals* or *With Constant EAC*.

However, if you select the *Based on Configuration* option, the forecast program will calculate only KPIs that were made available in SAP S/4HANA 1809 FPS0. All additional KPIs that were delivered with SAP Commercial Project Management 2.0 SP08 will not be calculated or updated.

The configuration that is referred by this forecast method is available under Customizing for Commercial Project Management, under Project Cost and Revenue Planning à Define Plan Scenarios à Link Plan Scenario to Resource Types.

**Other Terms**

In-period forecast with cut-off date, SAP Commercial Project Management, CA-CPD, S/4HANA, CA-CPD-FP,
4.7 S4TWL - CPM - Personal Activity List

Application Components: CA-CPD, CA-CPD-PCM

Related Notes:

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<tr>
<th>Note Type</th>
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<tbody>
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<td>Business Impact</td>
<td>2712156</td>
<td>S4TWL - CPM - Personal Activity List</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP Commercial Project Management for SAP S/4HANA 1809 or upgrading from earlier versions of S/4HANA Commercial Project Management. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Project activity app provides similar functionality to that of personal activity list

**Solution**

**Description**

With SAP Commercial Project Management for SAP S/4HANA 1809, "Personal Activity List" is not available. Navigation to the Personal Activity List is withdrawn from multiproject overview application and from project workspace. Note that a functional equivalent is available.

**Required and Recommended Actions**

- Use *Project Activities* application for managing activities.
- Adapt related custom enhancements.
- Inform key users and end users.

**Other Terms**

Personal Activity List, SAP Commercial Project Management, CA-CPD, S/4HANA
5. Commodity Management

5.1 S4TWL - CM: Simplified Market Data

Application Components: SD-BF-CPE, LO-CMM-BF, MM-PUR-GF-CPE

Related Notes:

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<tr>
<th>Note Type</th>
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<td>Business Impact</td>
<td>2460737</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709 the Commodity Pricing Engine only supports market data based on Derivative Contract Specifications (DCS). The market data defined using Quotation Source, - Type and - Name are no longer supported.

Business Process related information

- Quotations have to be defined based on Quotation Rules
- All relevant quotation rules have to be transferred to use market data based on DCS.
- Relevant open documents have to be closed before the conversion
- MM Contracts are not supported in the current version

The assigned document 'Cookbook From Exchange to DCS' describes examples how to set up Derivative Contract Specifications (DCS).

Required and Recommended Action(s)

Source system EHP 7 and EHP 8 (Conversion to DCS based market data has to be done in the source system)

1. In the assigned document 'Cookbook Market Data in Commodity Management', the process how to replace quotation Source, - Type and - Name based market data
to DCS based market data is described. This step has to be executed in the source system before starting the conversion.

2. Accessing market data moved to the quotation rule, the definition as part of the term itself is no longer supported. All relevant settings have to be transferred to a quotation rule, assigned to the term. The assigned document 'Function in Details - Quotation Rule' describes the necessary steps to convert the data.

Source System before EHP 7 (Conversion to DCS based market data has to be done in the target system)

In the assigned document 'Conversion to DCS based Market Data before EHP7' a project based solution how to convert the data is described.

5.2 S4TWL - CM: Simplified CPE Activation

Application Components: LO-CMM-BF, SD-BF-CPE, MM-PUR-GF-CPE

Related Notes:

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<tr>
<th>Note Type</th>
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<th>Note Description</th>
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</thead>
<tbody>
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<td>S4TWL - CM: CPE Simplified CPE Activation</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709 the activation of the Commodity Pricing Engine (CPE), the flagging of Condition Types to be relevant for CPE and the required settings in the pricing procedure are simplified. This is especially relevant if you are using CPE together with IS-OIL.

Business Process related information

The settings for the activation of the CPE have to be adjusted manually, if you are using CPE together with IS-OIL. If no IS-OIL is active, the conversion is done automatically during the update.
Required and Recommended Action(s)

In the assigned document 'Function in Details - Simplified CPE Activation', the process how to adjust the relevant settings is described.

5.3 S4TWL - CM: CPE Simplified Formula Assembly & Formula Evaluation

Application Components: SD-BF-CPE, MM-PUR-GF-CPE, LO-CMM-BF

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
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<tbody>
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</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709 the Formula Assembly of the Commodity Pricing Engine (CPE) is done based on BRF+ and for Formula Evaluation, the access to document data has been simplified.

Business Process related information

- The configuration of Formula Assembly has to be transferred to BRF+.
- Customer coding using the field mapping information in Formula Evaluation has to be adjusted.
- The necessary adjustments are done in the target system

Required and Recommended Action(s)

1. In the assigned document 'Cookbook Formula Assembly based on BRFplus', the process how to transfer Formula Assembly to BRF+ is described.
2. In the assigned document 'Function in Details - Formula Evaluation', all the necessary information how to adjust customer coding is included.
5.4 S4TWL - CM: CPE Simplification of Routines & Rules

Application Components: LO-CMM-BF, SD-BF-CPE, MM-PUR-GF-CPE

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
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<td>S4TWL - CM: CPE Simplification of Routines &amp; Rules</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709 some of the delivered routiones for the Commodity Pricing Engine (CPE) are simplified, some others are no longer available.

Business Process related information

- All relevant routines and rules have to be adjusted.
- Relevant open documents have to be closed before the conversion (see attached document 'Cookbook Open Documents using not supported routines').

Required and Recommended Action(s)

In the attached document 'Cookbook Supported CPE Routines', the affected routines are described.

The attached document 'Cookbook Application independent Reference Date Routines in Commodity Pricing Engine' describes the simplified application independent reference date routines and the necessary steps required in conversion.
5.5 S4TWL - CM: CPE Simplified Data Model

Application Components: LO-CMM-BF, MM-PUR-GF-CPE, SD-BF-CPE

Related Notes:

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<tr>
<th>Note Type</th>
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<td>Business Impact</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709 the data model of the Commodity Pricing Engine has been simplified.

Business Process related information

- The necessary conversions are done during installation

Required and Recommended Action(s)

Actions are only relevant for customer specific coding. Details are described in the attached document 'Function in Details - Simplified Data Model'.

5.6 S4TWL - Simplified Commodity Curves

Application Components: FIN-FSCM-TRM-MR, LO-CMM-BF

Related Notes:

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<th>Note Type</th>
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<td>S4TWL - CM: Simplified Commodity Curves</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA FPS1, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

With SAP S/4HANA, on-premise edition 1709 FPS1, the master data of Commodity Curves have been simplified. As part of the overall simplification of the data model in Commodity Management, the Commodity ID has been deprecated. Based on this simplification, also the definition and the access to Commodity Curves is simplified and the only supported commodity Curve Category is '2 Based on DCS'. Commodity Curves are now defined and accessed using the DCS ID, MIC (optional) and Commodity Curve Type.

For the usage of Commodity Curves within the Commodity Pricing Engine, it is no longer required to activate the Business Functions of Commodity Management for Treasury (FIN_TRM_COMM_RM).

Note 2553281 describes the process regarding the deprecation of the Commodity ID in Commodity Management. Details regarding the simplified Commodity Curves can be found in chapter 'Conversion of Commodity Curves'.

### 5.7 S4TWL - Simplified DCS Access

**Application Components:** LO-CMM-BF

**Related Notes:**

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</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

With SAP S/4HANA, on-premise edition 1709 FPS1, the access to DCS based Market Data, Commodity Curves and Financial Transactions has been simplified. Details about the simplification can be found in the attached document 'Function in Details - Simplified DCS Access'.
5.8 S4TWL - Simplification in Position Reporting for Financial Transactions

Application Components: LO-CMM-BF

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
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</thead>
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<td>Business Impact</td>
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<td>S4TWL - Simplification in Position Reporting for Financial Transactions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case

Solution

Description

With SAP S/4HANA the Commodity Risk Management provides Position Reporting for the Financial Transaction Management. All analytical data is persisted based on versioned data records and exposed through Core Data Services (DCS) to the analytical tools like SAP Analysis for Microsoft Excel.

Business Process related information

In the Business Suite the Financial Transaction data that is relevant for the analytical source data for position reporting was stored in the versioned data base table for commodity exposures (TEXT_CTY_EXPOS). This data base table was also used for logistical data via the Logistics to Treasury Management interface (LOG2TRM). The update happened via a background process.

In S4 1709 FPS01 there is a new data flow to support analytical reporting. The Financial Transaction data is updated automatically from all relevant Financial Transaction business processes into a new data base table (CMM_VFIND) in real time. In case of an error it is possible to monitor messages in the application log and to re-process.

S4 1709 FPS01 the analytical reporting keyfigures are provided in one single technology that provides a reporting CDS stack in order to allow commodity position snapshot reporting across commodities.

Functional Restrictions
In S4 1709 FPS01 the Position Reporting for Financial Transactions does not support option delta factors.

**Required and Recommended Action(s)**

As described in the attached 'Function in Details - Simplification in Postion Reporting for Financial Transactions’ a couple of steps need to be considered:

- historical position data can not be migrated to the new S/4HANA analytical data model. The data should be exported BEFORE the S4 upgrade to keep it accessible from an XLS or BW InfoCube
- Financial Transaction data can be loaded initially into the database table which is used in S4 1709 FPS1 onwards for position reporting
- if BEX Queries on top of Operational Data Providers are used in the Business Suite, these BEX Queries need to be converted into CDS Queries in S4 on top of the new CDS InterfaceViews
- if CDS Queries have been used for Position Reporting in the Suite, these need to be converted into CDS Queries in S4 on top of the new CDS InterfaceViews

**Other Terms**

Commodity Risk Management, Commodity Exposure Positions

**5.9 S4TWL - Simplified Data Flow of logistics data for Risk Reporting Database**

Application Components: LO-CMM-BF, LO-CMM-ANL

<table>
<thead>
<tr>
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<td>S4TWL - CM: Simplified Data Flow of Logistics Data for Commodity Position Reporting</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**
With SAP S/4HANA, on-premise edition 1709 the data flow and persistencies of commodity price risk data derived from logistics documents and transactions have been revised.

**Business Process related information**

- As described in the attached word file, a reduced number of background queues needs to be monitored for errors.
- Error handling for commodity position data does not require the usage of transaction LITRMS anymore.
- Instead, queues in error need to be monitored and re-started, after the errors were resolved.

**Required and Recommended Action(s)**

In the attached document, you can find information on the revised handling of background processes and thus requirements on system monitoring.

**Other Terms**

Error handling, Commodity Position Reporting

**5.10 S4TWL - Position Reporting on versioned pricing data**

Application Components: LO-CMM-ANL, LO-CMM-BF

<table>
<thead>
<tr>
<th>Note Type</th>
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<td>S4TWL - CM: Commodity Position Reporting on Versioned Pricing Data</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
With SAP S/4HANA, on-premise edition 1709 the database table and available infosources for commodity price risk data required for commodity position reporting got unified and revised.

**Business Process related information**

The Business Suite's *Commodity Position Reporting* used raw exposures created from logistics documents and transactions.

Based on the raw exposures, the commodity position table TEXT_CTY_EXPOS was updated for the Commodity Position Reporting. In S4H, the data footprint and processing layers were reduced.

Key figures, which were formerly exposed in different technology stacks (ODP/BEx versus CDS views) are now provided in one single technology and reporting stack only to allow a unified reporting for different commodities and scenarios.

**Required and Recommended Action(s)**

As described in the attached 'Function in Details - Position Reporting on Versioned Pricing Data' word file, the following steps need to be performed:

- Historical position data should be exported BEFORE the S4HANA upgrade to keep the data accessible from an XLS or BW InfoCube
- Logistics transactions need to be loaded to the database table, which is used in S4H 1709 FPS1 onwards for the *Commodity Position Reporting*
- If BEx queries on top of Operational Data Providers (ODP) are used in the Business Suite, these BEx queries must be converted to CDS queries in S4H on top of the new CDS interface views
- If CDS queries have been used for the *Commodity Position Reporting* in the Business Suite, these queries need to be converted to CDS queries in S4H on top of the new CDS interface views

**Other Terms**

ODP, BEx Query, CDS views

**5.11 S4TWL - Hedge Management for logistics transactions**

Application Components: LO-CMM-ANL, FIN-FSCM-TRM-CRM, LO-CMM-BF

Related Notes:
<table>
<thead>
<tr>
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<td>S4TWL - CM: Hedge Management for Logistics Transactions</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1709, the raw exposure interface for logistics transactions has been deprecated.

**Business Process related information**

In the Business Suite, raw exposures were created from logistics documents based on the commodity pricing information. For these raw exposures, risk hedges could be managed.

**Required and Recommended Action(s)**

Check, whether you used raw exposure information for *Hedge Accounting for Exposures*.

In S4H 1709 FPS01, *Commodity Position Reporting* is provided without raw exposures.

Based on reported positions of logistics transactions, the corresponding risk hedges must be triggered manually.

**Other Terms**

Hedge Accounting for Exposures, HACC

---

**5.12 S4TWL - Position Reports delivered by Agricultural Contract Management**

Application Components: LO-CMM-BF, LO-CMM-ANL
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709, the database table and available infosources for risk data required for position reporting got unified and revised.

New Core Data Services (CDS) views are provided to determine keyfigures for position reporting.

For keyfigures, which are specific for Futures/Basis pricing - as common in the Agricultural industry - CDS (interface) views are available.

However, queries on top of these are not provided with the software layer of Commodity Management.

Instead, these are provided in the Agricultural Contract Management (ACM) software layer.

Business Process related information

Agri-specific Queries include

- Futures Risk / Slate report with a keyfigure layout tailored to Future / Basis pricing
- Basis / Premium report
- Price Type report

Required and Recommended Action(s)

If you require Agri-specific queries, check the availability of Agricultural Contract Management (ACM) in your system.
If ACM is not available you may need to create queries on top of the available (Commodity Management) interface views during system implementation.

**Other Terms**

ACM, agricultural industry, commodity position reporting, CDS views

### 5.13 S4TWL - Risk Determination and Pricing for MM Contracts not supported yet

Application Components: LO-CMM-BF, LO-CMM-ANL

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2560298</td>
<td>S4TWL - Commodity Pricing in Purchasing Contracts and Scheduling Agreements</td>
</tr>
</tbody>
</table>

**Symptom**

Within S/4HANA 1709 - from FPS00 until FPS02, MM Contracts and Scheduling Agreements do not support the following functionality:

- Risk Distribution Plan (RDP)
- Usage of Commodity Pricing Engine (CPE) and Configurable Parameters and Formulas (CPF)

Starting with S/4HANA 1709 FPS03, MM Contracts are supported with the following functionality:

- Usage of Commodity Pricing Engine (CPE) and Configurable Parameters and Formulas (CPF) using time independent conditions (document conditions). Existing MM Contracts (with time-dependent conditions) have to be closed and new MM contracts with time independent conditions have to be created for the open quantity and validity period.
- Risk Distribution Plan (RDP) for time independent conditions.

Starting with S/4HANA 2020 FPS00 Scheduling Agreements are supported with commodity pricing (CPE, CPF) using time-dependent conditions.
Solution

Before S/4HANA 1709 FPS03, Customers converting to S/4HANA using RDPs or CPE/CPF within MM Contracts or Scheduling Agreements cannot convert.

Other Terms

RDP, CPE, CPF, Purchasing Contract, Scheduling Agreements

5.14 S4TWL - Unification of supported technologies in analytical data provisioning

Application Components: LO-CMM-ANL, FIN-FSCM-TRM-CRM, LO-CMM-BF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2555990</td>
<td>S4TWL - CM: Unification of Technologies for Analytical Data Provision</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709 the technologies by which analytical data is provided got unified:

- Operational Data Providers (ODP), BW Extractors and BEX Queries on top of these providing Position Reporting and Mark-to-Market are deprecated

- HANA Live calculation views are not supported for Commodity Position Reporting and Mark-to-Market valuation/reporting.

Instead, all analytical data is exposed through Core Data Services (CDS) views.

Business Process related information
In the Business Suite’s Commodity Position Reporting, different sources of analytical information were available in different technologies:

Some data were reported based on Operational Data Providers (ODPs), some data based on CDS views, some information was exposed through HANA Live calculation views.

In S4HANA, all analytical data for commodities is exposed through CDS views reducing the TCO by using a unified technology.

**Required and Recommended Action(s)**

Check, whether the required analytical data is provided by CDS views with S4H 1709 FPS01.

Note, that some analytical information for commodities formerly provided in the Business Suite may not be supported yet. These restrictions are documented in other simplification items.

You may need to convert your queries to enable the consumption by the new CDS views available in S4H.

**Other Terms**

ODP, BEx Query, CDS view, Commodity Position Reporting, Commodity Position Overview, MtM

**5.15 S4TWL - Risk Determination on a schedule line level**

Application Components: LO-CMM-ANL, LO-CMM-BF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2556063</td>
<td>S4TWL - CM: Commodity Price Risk Determination from Schedule Lines</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**
Description

With SAP S/4HANA, on-premise edition 1709, the commodity risk determination for commodity price risks got simplified.

Business Process related information

In the Business Suite it was possible to activate the commodity price risk determination based on schedule lines of a purchase order or sales order.

For this purpose a price simulation was called in the background for each schedule line with the schedule line date as reference date and pertaining quantity.

This is not supported in S4HANA.

Required and Recommended Action(s)

If you require to split and distribute commodity price risk information, you need to split it on the item level accordingly.

Other Terms

Schedule Line Item, Purchase Order, Sales Order, Delivery Schedule

5.16 S4TWL - Simplification of DCS based Market Data Handling for Fin Transactions

Application Components: FIN-FSCM-TRM-CRM, LO-CMM-BF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2556164</td>
<td>S4TWL - Simplification of DCS-Based Market Data Mgmt for Financial Transactions: DCS ID Extension</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case

Reason and Prerequisites
The DCS ID with data type 6 chars used to be a restriction for customers and did not allow to enter a meaningful description, and to support longer market data codes from market data providers for commodity prices based on commodity forward indexes.

**Solution**

With SAP S/4HANA, on-premise edition 1709 FPS1, the Derivative Contract Specification Identifier (DCSID) as defined in the system configuration has been extended by using a DCSID data type with 20 CHAR. With this data type you can describe the entity in more detail such as, for example, with reference to the material, the exchange and the location.

**Business Process-Related Information**

The market data interface is adjusted to support the new DCSID data type.

The access to market data and commodity curves is now based on the longer DCSID. The Financial Transaction Management and the related processes are adjusted accordingly.

**Required and Recommended Action(s)**

Actions are only necessary for customer-specific coding. Manual conversion steps are need for the conversion of datafeed functionality. For more information, see SAP Note 2553281 - Cookbook Deprecation of Commodity ID in Commodity Management.

**Other Terms**

Derivative Contract Specification (DCS), DCS ID, market data feed

### 5.17 S4TWL - Deprecation of Non DCS based Market Data for Financial Transactions

Application Components:FIN-FSCM-TRM-CRM, LO-CMM-BF

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
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<tr>
<td>Business Impact</td>
<td>2556220</td>
<td>S4TWL - Simplification of DCS-Based Market Data Management for Financial Transactions</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case

**Reason and Prerequisites**

Check in your business suite (ERP) implementation, whether and which market data are based on DCS

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1709, the commodity market data is based only on definitions of derivative contract specifications (DCS). The following derivative categories are supported for using the DCS:

- Commodity Future
- Listed Option
- Commodity Forward Index

Financial transaction pricing data uses DCS-based market data only.

**Business Process-Related Information**

To support the DCS-based market data including DCS-based commodity curves, the Financial Transaction Management and its commodity-specific processes like price adjustments for unpriced commodity derivatives were adjusted accordingly.

**Required and Recommended Action(s)**

Check your Business Suite (SAP ERP) implementation, whether you used market data based on quotation source, quotation type, quotation name.

The market data must be converted to support DCS-based market data.

The financial transactions pricing data based on the previous market data concept can be converted according to the cookbook (see SAP note 2553281 - Cookbook Deprecation of Commodity ID in Commodity Risk Management).

**Other Terms**

5.18 S4TWL - Deprecation of functions using Non DCS based Market Data

Application Components: LO-CMM-BF, FIN-FSCM-TRM-CRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case

Solution

Business Process-Related Information

In the Business Suite (ERP), the market data that was not related to derivative contracts specification (DCS) and was based on quotation name, quotation type, quotation source could be used for

- volatilities with moneyness for OTC commodity options
- the definition of shifts and scenarios
- the statistics calculator for volatilities and correlations
- calculation of value at risk results
- creation of generic transactions for market risk analyzer analytics
- Hedge Accounting for commodity price risks and exposures from financial and logistics transactions

Required and Recommended Action(s)

These functions are not available in S/4HANA 1709. It is planned to support these functions in a future release of Commodity Management.

Other Terms

Commodity Risk Management, Value at Risk, Market Data Shift, Market Data Scenario, Market Risk Analyzer (MRA) MRA simulation, Statistics Calculator for Volatilities, Correlations
5.19 S4TWL - Simplified Data Model/Master Data

Application Components: LO-CMM-BF

Related Notes:

<table>
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<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
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<td>Business Impact</td>
<td>2554440</td>
<td>S4TWL - Simplified Commodity Management Data Model / Master Data</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The master data model for the commodity master data in S/4HANA has been simplified and allows a single definition of the commodity as an attribute of the Derivative Contract Specification (DCS). This allows a standardized access to the DCS-based market data for derivative transactions and processes, and for logistics transactions.

The determination of market data by quotation name, quotation type and quotation source is deprecated in S/4HANA (see reference note).

**Solution**

**Description**

With SAP S/4HANA on-premise edition 1709 FPS1 the data model of Commodity Management master data has been simplified. The commodity as a system entity to represent traded material is defined as attribute of derivative contact specifications (DCS). To make the depreciation of commodity master data possible, the definition of market data and the market data access were adjusted accordingly. For the assignment of the DCS and market identifier code (MIC) to financial transaction data, in order to replace the Commodity ID, all financial transactions and processes were adjusted.

**Business Process related information**

The following functional areas are adjusted:

- Financial Transaction Management
- BAPIs for Financial Transactions
- FUT and LOPT - Class Data
• BAPIs for Class Data
• Commodity Price Adjustments
• Mass Cash Settlement
• MRA Basic Functions and Reports: Analysis Parameters, JBRX, TPM60, AISGENKF

**Functional Restrictions**

see business impact note 2556176

**Required and Recommended Action(s)**

For customer specific coding and configuration please refer to the Custom Code Impact Note. Manual conversion steps are needed. Please refer to the details that are described in the SAP Note 2553281 - Cookbook Deprecation of Commodity ID in Commodity Risk Management.

**Other Terms**


**5.20 S4TWL – Contract Processing Monitor & Logistical Options w/ GTM not supported**

Application Components: LO-GT-CMM, LO-CMM-BF

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2672696</td>
<td>S4TWL – Integration of Contract Processing Monitor(CPM) and Logistical Options(LOP) with GTM not supported</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**
With SAP S/4HANA, All on-premise editions, the integration of Global Trade Management (GTM) with Commodity Management processes (not ACM!) is partially supported.

Contract Processing Monitor (CPM) and Logistical Options (LOP) are not supported in S/4HANA. Also, there is no equivalent available for the same.

5.21 S4TWL - Mark-to-Market & Profit-and-Loss Reporting for logistics transactions

Application Components: LO-CMM-BF, LO-CMM-ANL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2591598</td>
<td>S4TWL - CM: Mark-to-Market &amp; Profit-and-Loss for logistics transactions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1709, the database table used for Mark-to-Market Reporting got unified.

Instead of three database tables storing valuation results for Purchasing, Sales and Trading Contracts, only one table is supported storing versioned pricing source data.

Business Process related information

The Business Suite's Mark-to-Market Reporting stored valuation results in the tables CMM_MTM_PO, CMM_MTM_SO and WB2B_CMM_MTM_TC.

However, this did not facilitate snapshot-based reporting (such as the End-of-Day Snapshot Mark-To-Market reporting) since the market data may not be present in the system at the time when these snapshots need to be valued.
For this purpose, to store versioned source data, table CMM_VLOGP had been introduced with SAP ERP 6.0 Enhancement Package 8.

Based on table CMM_VLOGP, the valuation with market data is performed at reporting time.

In S4H only, table CMM_VLOGP is supported as basis for the Mark-to-Market reporting on logistics transactions.

**Required and Recommended Action(s)**

As described in the attached document 'Function in Details - Mark-to-Market and Profit-and-Loss for Logistics Transactions’, the following steps need to be performed:

- If using discounting, you need to make use of forward FX rates instead to convert between currencies towards a statistics currency.
- If using aggregation, you need to define reporting groups in the Customizing for Commodity Risk Management and aggregate at these groups at reporting time.
- If BEx queries on top of Operational Data Providers (ODP) are used in SAP ERP, these BEx queries must be converted to CDS queries in S4H on top of the provided CDS interface views.

**Other Terms**

CMM_VLOGP CMM_MTM_PO CMM_MTM_SO WB2B_CMM_MTM_TC

**5.22 S4TWL - Mark-to-Market & Profit-and-Loss Reporting for Derivatives**

Application Components:FIN-FSCM-TRM-CRM

**Related Notes:**

<table>
<thead>
<tr>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2596369</td>
<td>S4TWL - Mark-to-Market &amp; Profit-and-Loss Reporting for Derivatives</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**
Description

With SAP S/4HANA the Commodity Risk Management provides Markt-to-Market and Profit-and-Loss Reporting for the Financial Transaction Management. All analytical data and analytical results are persisted based on versioned data records and exposed through Core Data Servcies (DCS) to the analytical tools like SAP Analysis for Microsoft Excel.

Business Process related information

In the Business Suite the Financial Transaction data that is relevant for the analytical source data for Markt-to-Market and Profit-and-Loss reporting was stored in Market Risk Analyzer (MRA) data base tables. The analytical results were provided in the framework of the MRA functionality 'Determination of Single Records' and stored in the Result Data Base.

In S/4HANA 1709 FPS02 there is a new data flow to support analytical reporting. The Financial Transaction data is updated automatically from all relevant Financial Transaction business processes into new data base tables. In case of an error it is possible to monitor messages in the application log and to re-process.

In S/4HANA 1709 FPS02 the analytical reporting key figures are provided in one single technology that provides a reporting CDS stack in order to allow Mark-to-Market and Profit-and-Loss snapshot reporting across commodities.

Functional Restrictions

In S/4HANA 1709 FPS02 the Position, Markt-to-Market and Profit-and-Loss Reporting for Financial Transactions does not support option delta factors.

Required and Recommended Action(s)

For the Simplification in Markt-to-Market and Profit-and-Loss Reporting for Financial Transactions a couple of steps need to be considered:

- historical position data can not be migrated to the new S/4HANA analytical data model. The data should be exported BEFORE the S/4HANA upgrade to keep it accessible from an XLS or BW InfoCube
- Financial Transaction data can be loaded initially into the database tables which is used in S/4HANA 1709 FPS2 onwards for Markt-to-Market and Profit-and-Loss reporting
- if BEX Queries on top of Operational Data Providers are used in the Business Suite, these BEX Queries need to be converted into CDS Queries in S/4HANA on top of the new CDS InterfaceViews
• if CDS Queries have been used for Markt-to-Market and Profit-and-Loss Reporting in the Suite, these need to be converted into CDS Queries in S/4HANA on top of the new CDS InterfaceViews

Other Terms

Commodity Risk Management, Commodity Mark-to-Market Reporting for Derivatives, Commodity Profit -and -Loss Reporting for Derivatives

5.23  S4TWL - Mark to Market Accounting Changes

Application Components: LO-CMM-BF, LO-CMM-ANL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2608098</td>
<td>S4 PreChecks: Conversion Report of Mark-to-Market Accounting for transition from Business Suite to S/4 HANA</td>
</tr>
</tbody>
</table>

Symptom

S4TC Pre-Transition Checks for Mark-to-Market Accounting returns following error messages:

"Action Required in client XXX: WBRP entries available for conversion exist. Migration cannot proceed without pre-conversion. See SAP Note 2608098."

Reason and Prerequisites

Mark-to-Market(MtM) Accounting uses Agency Business (AB) as a vehicle to create and reverse accounting documents. Data base optimization in S/4 HANA are performed in AB. The pre-conversion report RCMM_MTM_CONVERSION from this note executes the obligatory conversion of data for already created AB documents with MtM references. The S4TC Pre-Transition Checks for Mark-to-Market Accounting has to be successful after the execution of the pre-conversion report RCMM_MTM_CONVERSION

Solution

1. For source release SAP_APPL 618 implement this note. (Further releases up to and including S/4HANA 1709 FPS1 are added here to keep the report version in sync.)
2. For all conversions, run the report RCMM_MTM_CONVERSION in the source system in execution mode using the check box. Do this for each client indicated in the error messages.

Other Terms

S/4 HANA migration, Pre-Checks, LO-CMM, Conversion Report, Markt-to-Market Accounting

5.24 S4TWL – Integration of Pricing and Payment Events in GTM with Commodity Mngmt.

Application Components: LO-CMM-BF, LO-GT-CMM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2671009</td>
<td>S4TWL – Integration of Pricing and Payment Events in GTM with Commodity Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA 1809 FPS0, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

With SAP S/4HANA, on-premise edition 1809, the integration of Global Trade Management (GTM) with Commodity Management processes (not ACM!) is partially supported.

Pricing and Payment Events integration in Commodity Management is now supported in GTM. This functionality is encapsulated within the Business Function ISR_GLT_CMMINTEG.

NOTE: For functionalities that existed earlier in business function ISR_GLT_CMMINTEG, please refer to notes 2551942 and 2671010

5.25 S4TWL - Performance Optimization of Risk Analytics CDS Views

Application Components: LO-CMM-BF, LO-CMM-ANL
Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3327638</td>
<td>S4TWL - CM Replacement of Risk Analytics CDS Views by new performance optimized versions</td>
</tr>
</tbody>
</table>

**Symptom**

With S4 HANA 2021 new CDS views for Commodity Risk Analytics have been delivered having multiple performance optimizations compared to the CDS views delivered in lower versions.

As some of these changes require a data migration in underlying risk information tables (like table CMM_VLOGP), the optimization have been shipped in new views.

From S4HANA 2023 FP0 upwards the old CDS views are deprecated and usage should be removed as they will be deleted in a future Release.

**Reason and Prerequisites**

You are upgrading to S4HANA 2023 FP0 or higher.

Your are using CDS views which will get obsolete in subsequent Releases.

**Solution**

Required Data migration is happening with Silent Data Migration (SDMI) when upgrading to 2021 FP0 or higher.

If using SAP Standard Queries listed below as deprecated, use the new Query delivered as replacement as per belows list.

If having an own Query on top of a Cube listed below as deprecated, adapt your Query to use the new Cube.

<table>
<thead>
<tr>
<th>Obsolete Queries</th>
<th>to be replaced by</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>C_CMMDTYMTMLOGEODQRY</td>
<td>C_CMMDTYMTMLOGENDOFDAYQRY_2</td>
<td>MtM end-of-day</td>
</tr>
<tr>
<td>C_CMMDTYMTMLOGDODQRY</td>
<td>C_CMMDTYMTMLOGDAYOVERDAYQRY_2</td>
<td>MtM day-over-day</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------------</td>
<td>--------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>C_CMMDTYMTMLOGCURQRY</td>
<td>MTM stock Current Day</td>
<td></td>
</tr>
<tr>
<td>C_CMMDTYMTMSTKEODQRY</td>
<td>MtM stock day-over-day</td>
<td></td>
</tr>
<tr>
<td>C_CMMDTYBPPNLVALUE_QUERY</td>
<td>Beginning Position (P/L)</td>
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</tr>
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<td>New Activity (P/L)</td>
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</tr>
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<td>C_CMMDTYPOSEndoFDAYQRY</td>
<td>Position end of day</td>
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</tr>
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<td>C_CMMDTYPOsCurrentDATEQRY</td>
<td>Position current day</td>
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</tr>
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<td>C_CMMDTYPOsDAYOVERDAYQRY</td>
<td>Position Day Over Day</td>
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<td>Commodity Position EoD Interface – Query</td>
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<td>I_CMMDTYMTMVALUECUBE</td>
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</table>
5.26 S4TWL - CM: CCTR CPE Commodity Code Harmonization

Application Components: LO-CMM-BF, MM-PUR-GF-CPE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3020849</td>
<td>S4TWL - CM: CCTR CPE Commodity Code Harmonization</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system upgrade of SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case. During the upgrade, you have received a return code ERROR_SKIPPABLE (7) from consistency check class CLS4SIC_LOG_CMM_PRP_CMMNDTY_HAR.

**Solution**

**Description**
This simplification item is about the harmonization of commodity codes between central purchase contract and commodity management. In addition to the following guidelines, please also raise a support ticket to software component MM-PUR-GF-CPE with reference to this SAP Note.

**Business Process related information**

"Commodity Code" in the Central Contract is an identifier for a group of raw materials defined in customizing table MMPUR_CMDT_CODES.

The target of this simplification item is to replace these commodity codes with the commodities of Commodity Management defined in customizing table TBAC_PHYSCOMM.

The source identifier "Commodity Code" permits a string length of up to 50 characters, whereas the target identifier "Commodity" can have a maximum of 18 characters only. If a commodity code exceeds 18 characters, you must manually shorten the length of the identifier accordingly.

In addition, for the target Customizing, you must manually define a unit of measure during the migration,

This replacement allows an easier integration of the business area Commodity Management with Central Procurement, or vice versa.

**Relevancy Check**

This note is relevant for the following use cases:

- For SAP S/4HANA on Premise customers, who upgrade to S/4HANA 2021
- You have already been used central purchase contract functionalities and have defined commodity codes within the customizing table MMPUR_CMDT_CODES MMPUR.
- You have maintained commodity quantity data within central purchase contracts. For SAP S/4HANA on Premise customers, this can be checked by using transaction SE16 and checking, whether database table EKPO_WEIGHTS has any content.
- If the prior mentioned requirements apply, you must execute the migration steps stated previously before the upgrade to S/4HANA on Premise 2022.

**Required and Recommended Actions**

After the technical upgrade in the target release, the migration is to be performed in 3 steps. To guide you through the migration process, an assistance report is provided, which can be accessed in the following ways:
• SAP S/4HANA on Premise customers can perform this report by using transaction CMM_MIGRTN_COMMCODE.
• SAP S/4HANA on Premise customers can execute the report CMM_MIGRATE_COMMODITY_CODE via transaction SE38.
• SAP S/4HANA on Premise customers can access the Fiori Launchpad tile “Commodity Code Migration Assistant”, which can be found in business catalog “Commodity Management – Commodity Code Migration”.
• For SAP S/4HANA on Premise customers:
  Business catalog SAP_CMM_BC_CMMDTY_MIGRTN and business catalog group SAP_CMM_BCG_CMMDTY_MIGRTN are part of the business role SAP_BR_CENTRAL_PURCHASER.

1. Customizing Data Migration

For the migration of the customizing entries, perform the following steps:

  o Open the Fiori tile “Commodity Code Migration Assistant”. If this tile is not present on your Fiori Launchpad, use “App Finder” to search for it.
  o A table control is presented with a list of available commodity codes within your system. This list contains the “Migration Status” flag, which indicates whether a commodity code has already been migrated. If a commodity code has already been migrated, the data cannot be adjusted anymore within this report.
  o If either the commodity or the mapping needs to be adjusted, use the previously mentioned self-service configuration UIs for the adjustment.
  o If the commodity code length is below or equal to 18 characters, the system will propose the commodity identifier. You can adjust this commodity identifier if required. If the commodity code length exceeds 18 characters, you must provide a commodity identifier with less or equal to 18 characters.
  o Enter a unit of measure for every commodity.
  o Select the “Migrate Customizing” button within the toolbar. If the system asks for a customizing transport, provide a proper one.
  o If problems occurred during the customizing migration see the message log.

The customizing changes must be transported from your quality tenant to your productive tenant.

2. Application Data Migration

As a next step application data can be migrated within the quality tenant for testing purposes and in addition within your productive tenant. SAP strongly recommends to execute this step during times where users do not actively edit central contracts. To execute the application data migration, proceed as follows:
o Access the assistant with the Fiori tile “Commodity Code Migration Assistant” and select the “Migrate Application Data” button.
o Now, the system shows a list of messages. If errors occurred during processing, check the errors. Repeat executing the migrate function until no error messages occurred. If an object was locked by another user, re-execute this step.

With the migration of the application data, the new solution has not been activated yet on the user interface. You will still see the old commodity code fields within the central contract but, if editing the commodity quantity records, the system will keep the values in sync.

Note:
Ensure that all central contracts are migrated from commodity code to commodity before activating the feature toggle.

3. Activation of “Commodity” for S/4HANA On Premise Customers

To finally activate the new solution, you can use the “Activate Commodity” button within the assistant, Alternatively, directly run transaction SFW5 “Switch Framework: Display Business Function Status”. Expand the “LIGHTWEIGHT_FUNCTIONS” node and search for business function “LOG_CMM_PRC_BF_MIGRATION”. Activate this business function from the context menu.

After this activation, you will see the columns for commodity and commodity description in the commodity quantity facet of the central contract, and the columns for the commodity code will be disappeared. On the condition amount object page for CPE conditions, within the screen section “Commodity Details”, the “commodity code” field will be replaced by “commodity”. From now on, with the database table for commodity quantity (EKPO_WEIGHTS), the column for commodity codes will not be updated anymore.

Other Terms

central contract, central procurement, commodities, commodity management, commodity quantity, commodity weight, CLS4SIC_LOG_CMM_PRC_CMMDTY_HAR,

5.27 S4TWL - Simplified Commodity Pricing Engine Data Model

Application Components:CA-GTF-CPE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>

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You plan a system conversion from SAP ERP to SAP S/4HANA, on-premise edition or an upgrade from a lower to a higher SAP S/4HANA release. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Historical Background:

The development of the existing CPE architecture started 15 years ago, pointing to relational databases. The CPE database architecture was designed in a way that CPE object artefacts have been stored in application tables only in case that other data sources (customizing) were unavailable. Therefore, a huge amount of data were accessed on the fly during the pricing process.

This approach required several tables with different keys for the same CPE object type (formula, terms, conversions etc.), which were accessed each time an object were processed, even when the object wasn’t changed by the user.

For accessing the objects, “internal buffers” were used. Each CPE object had several, different buffers.

This approach would greatly reduce the effort when developing future Fiori applications such as for Central Purchase Contract, Sourcing Projects & Supplier Quotations, etc based on RAP or BOPF.

Also, a mass data processing and the handling with documents with a high-complex pricing hierarchy would have a negative impact on the performance.

Change Reason:

The new database architecture can be used in a simple way for BOPF- and RAP-based developments and improves the CPE pricing performance.

In addition, the new architecture solves the problem that customizing entities, which are not stored in application tables, can be changed during the lifetime of a document.

Summary of Changes:
• Simplified data model: Each CPE object (formula, terms and so on) will have just one table. No changes in functional level and minimal changes to consuming SAP components. Therefore new buffers should be included as well, pointing to the new tables.
• Changes in the key: New key DOCITEMCOND_GUID was introduced. All tables will share this GUID as well as additional fields required by the key.
• Every update on the old buffer will be reflected simultaneously on the new buffer and will be recorded in the new DB.
• Silent Data Migration (SDM) CL_SDM_CPED_MIGRATE_COMPLETE from the old to the new DB ensures that all continues to work properly. After the new installation, the system will automatically perform the migration report (SDM), so that both databases will be updated with the same records for a certain period of time.
• New data model is activated by two business functions: LOG_CMM_PRC_CPE_SMPLFCTN LOG_CMM_PRC_CPE_STOP_OLD. Before customers can use the new tables in transactions, both business function must have been activated.
• Comparison report CMM_SCPE_COMPARISON_REPORT: With this report you check the results of the data migration from the old to the new CPE database tables. For more information, see the report documentation.

List of the tables that are involved

<table>
<thead>
<tr>
<th>Original DB Table</th>
<th>Corresponding Optimized DB Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPED_FORMDOC</td>
<td>CPE_FORMULA</td>
</tr>
<tr>
<td>CPED_FORMINPUT</td>
<td>CPE_FORMULA</td>
</tr>
<tr>
<td>CPED_FORMCONVIN</td>
<td>CPE_FORMCONV</td>
</tr>
<tr>
<td>CPED_FORMCONVOUT</td>
<td>CPE_FORMCONV</td>
</tr>
<tr>
<td>CPED_FORMROUNDIN</td>
<td>CPE_FORMROUNDING</td>
</tr>
<tr>
<td>CPED_TERMOUT</td>
<td>CPE_TERM</td>
</tr>
<tr>
<td>CPED_TERMGRPOT</td>
<td>CPE_TERM</td>
</tr>
<tr>
<td>CPED_TERMINPUT</td>
<td>CPE_TERM</td>
</tr>
<tr>
<td>CPED_PERIODDTIN</td>
<td>CPE_TERM</td>
</tr>
<tr>
<td>CPED_PERIODDDTOU</td>
<td>CPE_TERM</td>
</tr>
<tr>
<td>CPED_PRIFIXDEF</td>
<td>CEP_TERM</td>
</tr>
<tr>
<td>CPED_TIER</td>
<td>CPE_TERM</td>
</tr>
<tr>
<td>CPED_TERMCONVIN</td>
<td>CPE_TERMCONV</td>
</tr>
<tr>
<td>CPED_TERMCONVOUT</td>
<td>CPE_TERMCONV</td>
</tr>
<tr>
<td>CPED_TERMROUNDIN</td>
<td>CPE_TERMROUNDING</td>
</tr>
<tr>
<td>CPED_EXCHRATE</td>
<td>CPE_EXCHANGERATE</td>
</tr>
<tr>
<td>CPED_QUOTATION</td>
<td>CPE_QUOTATION</td>
</tr>
</tbody>
</table>
Total of original CPE tables: 18

Total of optimized CPE tables: 8

**Business Process related information**

Since it is expected that old and new data model are semantically equivalent, no impact on business processes is expected.

**Required and Recommended Action(s)**

SAP delivers a “Silent Database Migration”, which will migrate all standard fields from the old data model to the new data model. Customers can use both data models in parallel for a certain time of period to check the consistency with a provided report. Two business functions are provided to finally switch to the new data model.

While standard fields are migrated without any manual work, please note that for custom fields and custom coding manual preparational steps might be necessary. This could mean, for example, that custom fields need to be added again to the new database table so that they can be filled during the migration by the SDM report.

For detailed description of the migration process, please refer to note 3207069

**Other Terms**

CPE, Commodity Pricing, Commodity Management, CL_SDM_CPED_MIGRATE_COMPLETE, LOG_CMM_PRC_CPE_SM PLFCTN LOG_CMM_PRC_CPE_STOP_OLD

**5.28 S4TWL - Data Model Change in the Commodity Condition Types Mapping**

Application Components: CA-GTF-CPE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3203820</td>
<td>S4TWL - Data Model Change in the Commodity Condition Types Mapping</td>
</tr>
</tbody>
</table>
Symptom

You are using an SAP S/4HANA On Premise system, Commodity Management solution. When using Commodity pricing Engine in the area of central procurement (Central Purchase Contract and Sourcing Projects) the customizing activity "Map Purchase Condition types to commodities" has been maintained.

The custom code check shows those customer objects that are affected by simplifications.

SAP objects used by the customer objects have been changed in a way that the would give inconsistent results.

Reason and Prerequisites

There is a data model change in the Commodity Condition Types Mapping. An Additional Key is added to the data base table CMM_CMDTY_CND. This additional key enables the mapping to be maintained for Sales Conditions. Previously the table was restricted to store only Purchase Conditions.

Solution

Whenever the table CMM_CMDTY_CND is used in Customer Code to fetch data, the new additional key field must be included in the code so as to maintain the consistency in the data fetch.

If CDS View I_CommodityConditionMapping is used then this should be replaced with the CDS View I_PurCommodityConditionMapping for Purchase and I_SlsCommodityConditionMapping for Sales.

Other Terms

Commodity, Condition Types, Mapping
6. Corporate Close

6.1 S4TWL - Usage of long Material Number in EC-CS

Application Components: EC-CS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2471287</td>
<td>S4TWL - Usage of long Material Number in EC-CS</td>
</tr>
</tbody>
</table>

Symptom

You are preparing a system conversion to SAP S/4HANA. Pre-transition checks for the application EC-CS SAP Consolidation must be carried out before the conversion.

This SAP Note describes simplification item SI01: EC_CS_MATNR. See also SAP note 2209784 for the old pre-check framework.

Reason and Prerequisites

This SAP Note is relevant for you when your start release for the system conversion is an ERP release.

It is not relevant if your start release is SAP S/4HANA.

Solution

Description

In SAP S/4HANA, the material number was extended to a maximum length of 40 characters. As a result, the material number is longer than the maximum length defined for characteristics in the EC-CS data model.

Business Process Related Information

If you have included a field of type MATNR (material number) as a customer-defined subassignment in the EC-CS data model, the EC-CS data model must be adjusted before the upgrade.

Required and Recommended Action
If the check detects that such a field is used in the EC-CS data model as a customer-defined subassignment, contact SAP Support by creating a customer incident on SAP Service Marketplace to application component EC-CS.

Rationale: The EC-CS data model in your system must be changed in this case. This change of the data model implies that the EC-CS Consolidation transaction data must be converted and information may also be lost during this process, because fields of type MATNR (material number) must be removed from the data model.

Other Terms
S4TC, CLS4SIC_EC_CS, XS4SIC_EC_CS

### 6.2 S4TWL - Consolidation (EC-CS) and preparations for consolidation

Application Components:EC-CS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2999249</td>
<td>S4TWL - Consolidation and Preparation for Consolidation</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Consolidation (EC-CS) and preparations for consolidation are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Consolidation (EC-CS) and preparations for consolidation can be found under the ID 434.

This means that you need to migrate from Consolidation (EC-CS) and preparations for consolidation to the designated alternative functionality “SAP S/4HANA Finance for
Group Reporting” before expiry of the compatibility pack license. This note shall provide further information on what to do to move to the alternative functionality.

**Business Process related information**

For a description of the functional scope of EC-CS in the context of SAP S/4HANA refer to SAP note [2371973](#) and to the SAP S/4HANA Feature Scope Description in sections SAP S/4HANA Compatibility Packs > [Consolidation (EC-CS)](##) and [Preparations for Consolidation](##).

For information about the alternative solution SAP S/4HANA Finance for Group Reporting refer to the [SAP Help Portal](##) and SAP note [2659672 - FAQ About SAP S/4HANA Finance for Group Reporting (On Premise)](##).

**Required and Recommended Action(s)**

Make yourself familiar with SAP S/4HANA for Group Reporting and define your strategy when to switch to the new solution.

For information how to transition from EC-CS to SAP S/4HANA for Group Reporting refer to SAP note [2833748](#).

Most important aspect to consider are as follows:

- In SAP S/4HANA 1809, coexistence of EC-CS and SAP S/4HANA for Group Reporting in the same SAP S/4HANA instance is not supported. You must set up a separate (new) SAP S/4HANA instance for usage of Group Reporting.
- As of SAP S/4HANA 1909, parallel usage of EC-CS and SAP S/4HANA for Group Reporting is possible ("hybrid system state"). This allows you to test usage of Group Reporting in parallel to the productive use of EC-CS.
- If you are on SAP S/4HANA 1909 or later and wish to run your system in the hybrid state to prepare the transition to Group Reporting, you need to contact SAP Support because the transition from EC-CS into hybrid system state is executed in a multiple step procedure of which some steps are executed by SAP Support.

**Other Terms**

SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Consolidation, ID 434

### 6.3 S4TWL - Consolidation (EC-CS) and preparations for consolidation

Application Components:EC-CS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2999249</td>
<td>S4TWL - Consolidation and Preparation for Consolidation</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

### Solution

#### Description

Consolidation (EC-CS) and preparations for consolidation are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Consolidation (EC-CS) and preparations for consolidation can be found under the ID 434.

This means that you need to migrate from Consolidation (EC-CS) and preparations for consolidation to the designated alternative functionality "SAP S/4HANA Finance for Group Reporting” before expiry of the compatibility pack license. This note shall provide further information on what to do to move to the alternative functionality.

#### Business Process related information

For a description of the functional scope of EC-CS in the context of SAP S/4HANA refer to SAP note 2371973 and to the SAP S/4HANA Feature Scope Description in sections SAP S/4HANA Compatibility Packs > Consolidation (EC-CS) and Preparations for Consolidation.


#### Required and Recommended Action(s)

Make yourself familiar with SAP S/4HANA for Group Reporting and define your strategy when to switch to the new solution.

For information how to transition from EC-CS to SAP S/4HANA for Group Reporting refer to SAP note 2833748.

Most important aspect to consider are as follows:
• In SAP S/4HANA 1809, coexistence of EC-CS and SAP S/4HANA for Group Reporting in the same SAP S/4HANA instance is not supported. You must set up a separate (new) SAP S/4HANA instance for usage of Group Reporting.
• As of SAP S/4HANA 1909, parallel usage of EC-CS and SAP S/4HANA for Group Reporting is possible ("hybrid system state"). This allows you to test usage of Group Reporting in parallel to the productive use of EC-CS.
• If you are on SAP S/4HANA 1909 or later and wish to run your system in the hybrid state to prepare the transition to Group Reporting, you need to contact SAP Support because the transition from EC-CS into hybrid system state is executed in a multiple step procedure of which some steps are executed by SAP Support.

Other Terms

SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Consolidation, ID 434

6.4 S4TWL – Real-Time Consolidation (RTC)

Application Components:FIN-RTC

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3205500</td>
<td>S4TWL - Real-Time Consolidation (RTC) in SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You are using Real-Time Consolidation (RTC) in SAP S/4HANA. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

SAP regards Real-Time Consolidation (RTC) in SAP S/4HANA no longer as strategic solution. Therefore, SAP has decided to phase out RTC in SAP S/4HANA. If you already use RTC in SAP S/4HANA releases up to release 2021, RTC is in deprecation state as of release SAP S/4HANA 2022. This means after an upgrade to SAP S/4HANA 2022 you can still continue using RTC with full support and maintenance. However, SAP does not plan to provide new features for RTC. Designated alternative for RTC is SAP S/4HANA Finance for Group Reporting.
Note that the features of Real-Time Consolidation are only available for customers who have licensed these features before October 1st, 2022, including maintenance for these features.

**Business Process related information**

For a description of the functional scope of RTC in the context of SAP S/4HANA refer to the [SAP S/4HANA Feature Scope Description "Corporate Close - Data Preparation"](#).

For information about the alternative solution "SAP S/4HANA Finance for Group Reporting" refer to the [SAP Help Portal](#) and SAP note [2659672 - FAQ About SAP S/4HANA Finance for Group Reporting (On Premise)](#).

**Required and Recommended Action(s)**

Make yourself familiar with SAP S/4HANA Finance for Group Reporting (S/4GR) and define your strategy when to switch to the new solution.

For technical setup of S/4GR, see the IMG (Implementation Guide) for this product. In particular, the following activities are required:

- Either "Install SAP Best Practice Content" or execute the IMG activity "Initialize Settings"
- Create master data for accounts, account hierarchies, organizational units and business configuration in S/4GR, in analogy with the existing entities which you have been using in RTC in SAP S/4HANA
- Create opening balance in S/4GR based on legacy transaction data from RTC in SAP S/4HANA

For further information, please contact your SAP Account Executive.

**Other Terms**

SAP S/4HANA, RTC, Real-Time Consolidation, deprecation state

### 6.5 S4TWL – Business Consolidation (SEM-BCS)

Application Components:FIN-SEM-BCS

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>
**Symptom**

You are using Business Consolidation (SEM-BCS) in SAP S/4HANA based on Embedded BW. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

SAP regards Business Consolidation (SEM-BCS) in SAP S/4HANA no longer as strategic solution. Therefore, SAP has decided to phase out SEM-BCS from SAP S/4HANA. If you already use SEM-BCS in SAP S/4HANA releases up to release 2021, SEM-BCS is in deprecation state as of release SAP S/4HANA 2022. This means after an upgrade to SAP S/4HANA 2022 you can still continue using SEM-BCS with full support and maintenance. However, SAP does not plan to provide new features for SEM-BCS in SAP S/4HANA. Designated alternative for SEM-BCS in SAP S/4HANA is "SAP S/4HANA Finance for Group Reporting".

Note that the features of SEM-BCS in SAP S/4HANA are only available for customers who have licensed these features before October 1st, 2022, including maintenance for these features.

If you want to deploy a consolidation solution on top of a data warehouse, outside of SAP S/4HANA, you can use "SAP BW/4HANA, Business Consolidation Add-On" (BCS/4HANA). The relevant release information on BCS/4HANA is provided in SAP Note 1330000 and in the rollout materials quoted therein.

**Business Process related information**

For a description of the functional scope of SEM-BCS in the context of SAP S/4HANA refer to SAP Note 2360258 and to the SAP S/4HANA Feature Scope Description "Business Consolidation".


**Required and Recommended Action(s)**
Make yourself familiar with "SAP S/4HANA Finance for Group Reporting" (S/4GR) and define your strategy when to switch to the new solution.

For technical setup of S/4GR, see the IMG (Implementation Guide) for this product. In particular, the following activities are required:

- Either "Install SAP Best Practice Content" or execute the IMG activity "Initialize Settings"
- Create master data for accounts, account hierarchies, organizational units and business configuration in S/4GR, in analogy with the existing entities which you have been using in SEM-BCS in SAP S/4HANA
- Create opening balance in S/4GR based on legacy transaction data from SEM-BCS in SAP S/4HANA

For further information, please contact your SAP Account Executive.

Other Terms

SAP S/4HANA, SEM-BCS, business consolidation, deprecation state

6.6 S4TWL – Configuration Changes in Group Reporting

Application Components: FIN-CS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3326805</td>
<td>S4TWL - Configuration in Group Reporting using Selections and FS item Role attribute</td>
</tr>
</tbody>
</table>

Symptom

You are preparing a system upgrade to SAP S/4HANA 2023 (S4CORE 108). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

In the Global System Settings (transaction code CXB3), one of the following options for the Settings for Configuration Control are not marked:

- Reclassification: Sel Object in Trigger
- Breakdown Category: Sel.Obj in Max.Sel

- Currency Translation: Selection Object

- Use Item Role Attribute

**Solution**

**Business Value**

The configuration of some functions in Group Reporting (breakdown categories, currency translation methods, reclassification methods, automatic postings on Selected FS items...) can be flexibly defined using Selections ([https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/4ebf1502064b406c964b0911adfb3f01/b3d1255de224a486cb116919c1c5f1.html?locale=en-US](https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/4ebf1502064b406c964b0911adfb3f01/b3d1255de224a486cb116919c1c5f1.html?locale=en-US)) and using FS item Role attribute ([https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/4ebf1502064b406c964b0911adfb3f01/bb5a08412bf145e9a950bee1bf4c6c6b.html?locale=en-US](https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/4ebf1502064b406c964b0911adfb3f01/bb5a08412bf145e9a950bee1bf4c6c6b.html?locale=en-US)).

The options to use these feature are defined in the Global System Settings (transaction code CXB3). They are by default selected. Only in some circumstances (migration from EC-CS, initial release 103) some of these options are possibly not selected.

**Description**

As of SAP S/4HANA 2023 (S4CORE 108), these options in the Global System Settings are always selected and cannot be edited.

**Business Process related Information**

If some of these options are not selected in your system, you must adjust your configuration before the upgrade to use the Selections and the FS item Role.

**Required and Recommended Actions(s)**

Check in the Global System Settings (transaction code CXB3) which of the following options are not selected:

- Reclassification: Sel Object in Trigger

- Breakdown Category: Sel.Obj in Max.Sel

- Currency Translation: Selection Object
- Use Item Role Attribute

If you don't use the options Reclassification: Selection Object in Trigger, Breakdown Category: Selection Object in Maximum Selection, or Currency Translation: Selection Object

Follow this procedure to replace sets with selections in the configuration:

- In the configuration activities Define Reclassification Methods, Define Breakdown Categories, and Define Currency Translation Methods, list all the sets you use and their content.
- In the Check Global System Settings configuration activity, select the options Reclassification: Selection Object in Trigger, Breakdown Category: Selection Object in Maximum Selection, and Currency Translation: Selection Object.
- In the Define Selections app, create a selection to replace the sets.
- In the configuration activities Define Reclassification Methods, Define Breakdown Categories, and Define Currency Translation Methods, replace the sets by the Selections.
- Check and test the configuration.

If you don't use the Use Item Role Attribute option, you can keep your configuration unchanged, or you can adjust your configuration to use the FS item Role attribute to select the FS item:

- In the Check Global System Settings configuration activity, select the Use Item Role Attribute option.
- In the Define Currency Translation Methods and Define Reclassification Methods configuration activities, check and adjust the configuration of selected FS items so that the role assigned corresponds to the correct FS item.
- Check and test the configuration

Other Terms

Sets, Selections, FS item Role attribute, Global System Settings, CXB3
7. Customer Service

7.1 S4TWL - Customer Service

Application Components: CS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2962632</td>
<td>S4TWL - Customer Service</td>
</tr>
</tbody>
</table>

Symptom

You are currently using Customer Service (CS) as compatibility scope in SAP S/4HANA on-premise edition. More information on compatibility scope in S/4HANA can be found in the following note 2269324. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Customer Service (CS) provides Service Management functionality for planning, executing and billing service orders. CS is used for Field Service, In-House Repair as well as Service Projects. It works in conjunction with Plant Maintenance (PM) functionality and provides integration to Resource Related Billing as well as Service Contracts.

Customer Service (CS) will be replaced by S/4HANA Service. S/4HANA Service will be the new state-of-the-art Service Management backend as part of SAP S/4HANA.

Required and Recommended Action(s)

Customer Service (CS) in S/4HANA is intended as a bridge or interim solution, which allows you a stepwise system conversion from SAP ERP to SAP S/4HANA on-premise edition and SAP S/4HANA Service.

Custom Code related information

S/4HANA Service is an all-new and own Service Management solution. It will re-use selected functionalities of ERP CS and partly PM but will mainly come with a new solution scope, including new processes and capabilities. Any enhancements or modifications of CS will not work once S/4HANA Service is used.
As a rough guideline, it is currently planned to re-use master data focused objects (e.g. Equipment, Functional location) mainly from ERP, while the more transactional data (e.g. service orders) for the operational service execution in S/4HANA service will be based on new objects. For customers with a high need of CS service order elements comparable to Plant Maintenance orders, it is planned to reflect these requirements in the solution as much as possible as well. More detail will be available around September 2020 as the new solution continues to take shape.

### 7.2 S4TWL - PH_Sample iView

**Application Components:** LO-PDM-GF

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271201</td>
<td>S4TWL - PH_Sample iView</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The iView was as an option for Pharmaceutical Sales Reps who were running CRM Mobile Sales to manage their inventory of free samples. This functionality is not available within SAP S/4HANA. No functional equivalent is available.

**Business Process related information**

Business Processes using this solution will no longer work. An alternative solution has to be developed in a customer project.

**Required and Recommended Action(s)**

Customers using the solution have to develop their own UI on their platform of choice to be deployed to mobile devices of their sales reps.

**How to Determine Relevancy**
The iView was meant to be used to provide pharmaceutical sales reps with the ability to review their stock of drug samples (van stock). It provides a view into the standard ERP inventory.

This note is relevant for customers using the SAP Portal and have configured this iView.

**Related SAP Notes**

| Custom Code related information | As this is an iView, customers were not able to develop custom code |

### 7.3 S4TWL - Customer Interaction Center (CIC)

**Application Components:** CS-CI

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
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<td>S4TWL - Customer Interaction Center (CIC)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Transaction CIC0 provides a basic Call Center help desk application which is technically outdated and not available within SAP S/4HANA.

**Business Process related information**

Business processes that require a help desk / call center integration cannot be executed in the customer interaction center any more. Instead they have to be integrated into the interaction center / help desk applications offered by SAP S/4HANA, SAP CRM or SAP C/4HANA.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | CIC0 |

**Required and Recommended Action(s)**
Business processes that require a help desk / call center integration should be integrated into the interaction center / help desk applications offered by SAP S/4HANA, SAP CRM or SAP C/4HANA.

**Related SAP Notes**

| Custom Code related information | See SAP Note 2229726 |
8. Financials – General

8.1 S4TWL - DMEE

Application Components: CA-GTF-CSC-DME

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3370503</td>
<td>S4TWL - DMEE</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using a DMEE transaction. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Business Value**

SAP has decided to replace legacy solution DMEE (Data Medium Exchange Engine) with the DMEEX (Data Medium Exchange Engine eXtended).

DMEEX delivers following new capabilities for the end-user:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>New syntax checks to ensure consistency of the format tree</td>
<td></td>
</tr>
<tr>
<td>Removing empty elements from XML file as native functionality</td>
<td></td>
</tr>
</tbody>
</table>

Apart from these, there are many minor improvements like preferences in conditions, faster UI, improved test tool and more.
DMEEX is regularly updated with new features. On the contrary, DMEE is in a maintenance state and it's unlikely that it will receive any updates in the future.

Description

To learn about business features, please refer to Business Value section above.

Business Process related information

DMEE consists of two main logical parts - **configuration** and **runtime**.

**Configuration** is when you define a new or modify an existing format tree to comply with the requirements of your bank, financial institution or public administration institutions.

From SAP S/4HANA 2025, **configuration** of format trees in the **outgoing direction** (file generation) **will no longer be possible in DMEE**.

Configuration will be available only via DMEEX. Once a DMEE tree is opened in DMEEX transaction it will be automatically migrated to the DMEEX.

**Runtime** is when the format tree is interpreted and filled with data to generate the output file.

For all existing format trees in DMEE the **runtime** phase will **remain intact** in SAP S/4HANA 2025. **There will be no "Day one impact"**.

All existing custom code integrations will remain functional after SAP S/4HANA 2025 regardless of whether DMEE or DMEEX is used. However, when a change is required for a DMEE tree, such tree will be migrated automatically to the DMEEX.

Required and Recommended Action(s)

To migrate a format tree from DMEE to DMEEX, open your DMEE tree in the DMEEX transaction and confirm the migration pop-up. Testing the format tree after migration is strongly recommended.

There is no need to migrate all your existing trees at once. More realistic option is to migrate when a certain change to an existing format tree is required. Usually, testing of such changed format tree would happen anyway.

After activating the migrated format tree in the DMEEX, usually some syntax errors will show up in the error log. These are caused by more rigorous syntax checks that control the consistency of your format tree. Fixing these syntax checks shall, in typical situations, take only few minutes.

There are some known inconsistencies between DMEE and DMEEX. Such cases are documented and regularly updated in SAP Note
During 2024, SAP plans to deliver a migration log that will detect potential issues as per SAP Note 3370488.
During 2024, SAP plans to deliver a migration report that will enable customers to easily compare DMEE and DMEEX output files.

**How to Determine Relevancy**

You are using custom DMEE format trees to generate output files (payment formats, statutory reports etc.).

**Other Terms**

SAP S/4HANA, System Conversion, Upgrade, deprecation, DMEE

### 8.2 S4TWL - DATA MODEL CHANGES IN FIN

**Application Components:** CO, FI

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270333</td>
<td>S4TWL - Data Model Changes in FIN</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

The universal journal significantly changes the way transactional data is stored for financial reporting. It offers huge benefits in terms of the ability to harmonize internal and external reporting requirements by having both read from the same document store where the account is the unifying element. You still create general journal entries in General Ledger Accounting, acquire and retire assets in Asset Accounting, run allocation and settlement in Controlling, capitalize research and development costs in Investment
Management, and so on, but in reporting, you read from one source, regardless of whether you want to supply data to your consolidation system, report to tax authorities, or make internal management decisions.

Totals records that store the data in the General Ledger, Controlling, Material Ledger, Asset Accounting, Accounts Payable and Accounts Receivable by period have been removed as have index tables that are designed to optimize certain selections. This simplifies the data structure and makes accounting more flexible in the long term as reporting is no longer limited by the number of fields in the totals records.

Description

With the installation of SAP Simple Finance, on-premise edition totals and application index tables were removed and replaced by identically-named DDL SQL views, called compatibility views. These views are generated from DDL sources. This replacement takes place during the add-on installation of SAP Simple Finance using SUM – related data is secured into backup tables. The compatibility views ensure database SELECTs work as before. However, write access (INSERT, UPDATE, DELETE, MODIFY) was removed from SAP standard, or has to be removed from custom code – refer to SAP note 1976487.

<table>
<thead>
<tr>
<th>Original Table</th>
<th>Compatibility View (identically-named view in DDIC)</th>
<th>DDL Source (for the identically-named DDIC View)</th>
<th>Backup Table (for original table content)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSAD</td>
<td>BSAD</td>
<td>BSAD_DDL</td>
<td>BSAD_BCK</td>
</tr>
<tr>
<td>BSAK</td>
<td>BSAK</td>
<td>BSAK_DDL</td>
<td>BSAK_BCK</td>
</tr>
<tr>
<td>BSAS</td>
<td>BSAS</td>
<td>BSAS_DDL</td>
<td>BSAS_BCK</td>
</tr>
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<td>BSID_DDL</td>
<td>BSID_BCK</td>
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<tr>
<td>BSIK</td>
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<td>BSIK_DDL</td>
<td>BSIK_BCK</td>
</tr>
<tr>
<td>BSIS</td>
<td>BSIS</td>
<td>BSIS_DDL</td>
<td>BSIS_BCK</td>
</tr>
<tr>
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<td>FAGLBSAS</td>
<td>FAGLBSAS_DDL</td>
<td>FAGLBSAS_BCK</td>
</tr>
<tr>
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<td>FAGLBSIS</td>
<td>FAGLBSIS_DDL</td>
<td>FAGLBSIS_BCK</td>
</tr>
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<td>GLT0</td>
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<td>GLT0_BCK</td>
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<td>KNC1_DDL</td>
<td>KNC1_BCK</td>
</tr>
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<td>KNC3_DDL</td>
<td>KNC3_BCK</td>
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<td>LFC1</td>
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<td>LFC1_BCK</td>
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<td>LFC3_BCK</td>
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<td>COSP_BAK</td>
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<tr>
<td>COSS</td>
<td>COSS</td>
<td>V_COSS_DDL</td>
<td>COSS_BAK</td>
</tr>
<tr>
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<td>FAGLFLEXT</td>
<td>V_FAGLFLEXT_DDL</td>
<td>FAGLFLEXT_BCK</td>
</tr>
</tbody>
</table>

In SAP Simple Finance, on-premise edition add-on 2.0 and SAP S/4HANA on-premise edition 1511, additional tables were (partially) replaced by Universal Journal
(ACDOCA). The approach for compatibility views in release 2.0 differs from 1.0 in the following ways:

- Compatibility views do not have the same name as the original tables.
- Instead, the database interface (DBI) redirects all related database table SELECTs to a compatibility view, which retrieves the same data based on the new data model (ACDOCA, and so on).
- The connection between table and compatibility view is NOT created during the installation w/ SUM

Again, write access (INSERT, UPDATE, DELETE, MODIFY) was adapted in SAP standard, or has to be adapted in custom code – refer to SAP note 1976487.

<table>
<thead>
<tr>
<th>Original Table</th>
<th>Compatibility View (view in DDIC for redirect)</th>
<th>DDL Source (for the identically-named DDIC view)</th>
<th>View to read the content of the database table (w/o redirect to compatibility view)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>FAA_ANEA</td>
<td>FAAV_ANEA_ORI</td>
</tr>
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<td>FAA_ANEK</td>
<td>FAAV_ANEK_ORI</td>
</tr>
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<td>FAAV_ANEP_ORI</td>
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<td>FAA_ANLP</td>
<td>FAAV_ANLP_ORI</td>
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<td>V_BSIM_ORI</td>
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<td>V_COEP</td>
<td>V_COEP_ORI</td>
</tr>
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<td>FGL_FAGLFLLEXA</td>
<td>FGLV_FAGLFLLEXA_ORI</td>
</tr>
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<td>V_T012K_BAM</td>
<td>V_T012K_BAM_DDL</td>
<td>V_T012K_MIG</td>
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<tr>
<td>T012T</td>
<td>V_T012T_BAM</td>
<td>V_T012T_DDL</td>
<td>V_T012T_MIG</td>
</tr>
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</tr>
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<td>FGL_PSLGLFLLEXA</td>
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<tr>
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<td>ZFGL_GLTT_C&lt;number&gt;</td>
<td>-</td>
</tr>
</tbody>
</table>

Any access to the following tables (Material Ledger) is supported up to release S/4 HANA OP 1809:

- Read access via redirection to compatibility views
- Write access (INSERT, UPDATE, DELETE, MODIFY) was adapted in SAP standard, or has to be adapted in custom code – refer to SAP note 1976487.
From release S/4 HANA OP 1909 and subsequent these tables and views are obsolete. No read or write access is allowed anymore.

<table>
<thead>
<tr>
<th>Original Table</th>
<th>Compatibility View (view in DDIC for redirect)</th>
<th>DDL Source (for the identically-named DDIC view)</th>
<th>View to read the content of the database table (w/o redirect to compatibility view)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CKMI1</td>
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<td>V_CKMI1_ORI</td>
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<td>V_MLHD_ORI</td>
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<tr>
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<td>V_MLIT_DDL</td>
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<tr>
<td>MLPP</td>
<td>V_MLPP</td>
<td>V_MLPP_DDL</td>
<td>V_MLPP_ORI</td>
</tr>
</tbody>
</table>

Besides the database tables, some old, related DDIC database views were replaced, either by equivalent code, a new identically-named DDL SQL compatibility view, or an automatic redirect to a new compatibility view. For the views that have been replaced by code, custom code also needs to be adapted – refer to SAP note 1976487. Similarly, customer-owned DDIC views referencing the database tables or views affected need to be replaced by equivalent code.

<table>
<thead>
<tr>
<th>Original DDIC database view</th>
<th>Obsolete database table used</th>
<th>As of release</th>
<th>Replaced by</th>
<th>Compatibility View</th>
<th>DDL Source (for the compatibility view)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BKPF_BSAD</td>
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<td>BKPF_BSAD_DDL</td>
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<td>Identically-named DDL view</td>
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<tr>
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</tr>
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</table>

**Business Process Related Information**

There are mandatory configuration steps in General Ledger, Asset Accounting, Account-Based CO-PA, and Cash Management (if used). For detailed information, refer to IMG -> Migration from SAP ERP to SAP Accounting powered by SAP HANA as well as to the respective simplification items for the used financial applications. We also recommend reading the guide attached to SAP note 2332030 - Conversion of accounting to SAP S/4HANA.

You should also consider adapting your reporting strategy to use the new Fiori reports that are designed specifically to handle the many fields in the universal journal, rather than continuing to work with the classic reports that aggregate on the fly according to the fields in the old totals fields.

**Required and Recommended Actions**

Adapt access to new simplified finance data model in your customer-specific programs – refer to SAP note 1976487.
8.3 S4TWL - REPLACED TRANSACTION CODES AND PROGRAMS IN FIN

Application Components: FI, AC, FIN-FSCM, CO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2742613</td>
<td>Obsolete or replaced transaction codes and programs in Finance applications of S/4</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition.

With the installation of the SAP S/4HANA on-premise edition certain transaction codes and programs in the application areas of Controlling, General Ledger, Asset Accounting, Accounts Payable and Receivable, Treasury and Risk Management - compared to EhP7 for SAP ERP 6.0 - have been removed and partially replaced with newer transactions, programs or WebDynpro applications.

Reason and Prerequisites

Task: Check if the customer uses any of the transactions or programs listed in the attached list of transactions and programs.

Procedure: Use transaction ST03N to list transaction codes and programs used in the system in the past.

Solution

SAP recommends you to read the scope information in SAP Note 2119188 for a general overview on supported functions and compatibility information.

Note that with S/4HANA the logic of SAP General Ledger (New GL) is used. The Classic General Ledger application is automatically transformed into a basic implementation of New General Ledger (not adding addidional ledgers, nor document splitting functionality). Therefore transactions of classic General Ledger have to be replaced by the relevant transactions from New General ledger. These transactions are not explicitly mentioned in this note.
Transactions, programs and WebDynpro applications which are not supported are listed in the attached PDF document.

**Classic CO-OM planning transactions instead of SAP BPC optimized for SAP S/4HANA**

In case you cannot transition to SAP BPC optimized for SAP S/4HANA in the short-term, but have strong reasons to continue to use the classic CO-OM planning functions, you may do so, but these transactions are not included in the SAP Easy Access Menu.

Please be aware that the classic planning functions don't update the new planning table (ACDOCP), which is available from SAP S/4HANA 1610. This means that legacy reports and follow-on processes will continue to work, but that Fiori apps based on the new table will not display plan data entered with classic planning functions.

**BW-Extractors and SAP BPC optimized for SAP S/4HANA**

Customers that in the past used BW-extractors to extract and report FI-GL plan data will as of now make use of the SAP BPC optimized for SAP S/4HANA functionality. This new planning application serves to record plan data for FI and CO. In order to activate the SAP BPC optimized for SAP S/4HANA functionality, check SAP Note 1972819. The documentation can be found here: [http://help.sap.com](http://help.sap.com).

The classic GL planning functions can be reactivated for a transition period by following the instructions in the SAP Notes 2253067 and 2474069.

**Treasury and Risk Management**

Obsolete Transactions and Programs in Treasury and Risk Management are described and listed in the SAP Note 2726778.

**Asset Accounting**

The affected transactions, programs and WebDynpro applications and its replacements are listed in the release notes for Asset Accounting and the following notes:

Notes:

2270387: S4TWL - Asset Accounting: Changes to Data Structure

2270388: S4TWL - Asset Accounting: Parallel Valuation and Journal Entry

2257555: S4TWL - Asset Accounting: Business Functions from FI-AA and FI-GL

Release Notes:
Other Terms

Out of scope, disabled transactions

8.4 S4TWL - SAP Travel Management in SAP S/4HANA Suite

Application Components: FI-TV

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2719018</td>
<td>S4TWL - SAP Travel Management in SAP S/4HANA Suite</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition.

Reason and Prerequisites

This is an information note, which provides the roadmap, the scope of the shipment and the possible differences between Business-Suite and S/4HANA Suite.

Solution

This note contains in attachment the roadmap in S/4HANA for the new product SAP Travel Management for SAP S/4HANA.

The scope will be comparable to the one in S/4HANA compatibility scope pack corresponding to ECC 6.0 Enhancement package 8.

It is not necessary to change from ERP to the compatibility mode of SAP S/4HANA. Customers can then switch directly to the SAP S/4HANA system (release 2022).
The migration process is comparable to a new release installation. There is a migration guide to assist customers with the migration.

Additional information: There will be no major change as the architecture stays the same (database / SAP GUI applications, Web Dynpro applications, Workflows, Transfer to Accounting/Payroll etc.).

The new product will be compliant with S/4HANA standards

- Adoption of the GDPR framework for archiving, data deletion, RAL*, etc.
- Accessibility
- Performance (Fiori apps old/new)
- Display harmonization

The major difference is the availability of a set of new FIORI applications based on Fiori Element Framework with CDS views and RAP Technology. The goal of this development is to ensure the maintenance security and adherence to the SAP guideline. The new Fiori Applications are based on the same customizing than the previous Fiori versions (V1 & V2 and WebDynpro), there is no new customizing to configure. The approval applications (My-Inbox) will be based on a new Odata Service for the display of the information, but there is no major change and you can reuse your own configuration in the same way. In S/4HANA for accessibility reason only the PDF forms are allowed, you will not be able to use HTML Form in standard.

Two new roles are available in this context the "Business Traveler" role and the "Traveler Assistant" role. Corresponding to the roles, two new "Business Catalogs" are available in standard.

Here the list of new Fiori applications:

For "Business Traveler" role

- My Travel Requests for Business Traveler (Fiori ID F6015)
- My Travel Plans for Business Traveler (Fiori ID F6768)
- My Travel and Expenses for Business Traveler (Fiori ID F6190)
- My Credit Card Transactions (Fiori ID F6506)

For "Traveler Assistant" role

- Travel Requests for Travel Assistant (Fiori ID F0409B)
- Travel Plans for Travel Assistant (Fiori ID F6771)
- Travel and Expenses for Travel Assistant (Fiori ID F0584B)
For the Public Sector Germany, two new processes: Relocation and separation allowance will be available for customers. Both processes will be available for Domestic or International trips.

- German Regulation of International Separation Allowances (ATGV)
- German Law on Inland Relocation Costs (BUKG)
- German Regulation of Foreign Relocation Costs (AUV)

Due to strategy the initial shipment will not include all existing features but existing gaps will be filled in the next FSPs. For an exhaustive list of limitations please check the following information underneath:

- Country versions for CEE (Central and Eastern Europe).
- Public Sector-specific features.
- Table PTK99: The use of table PTK99 is not supported. Instead we provide an extensibility concept (please see SAP KBA 3296253 and 3260453). If you want to manage old data in the cluster corresponding to the structure PTK99, you will need to manage the mapping between the old structure (PTK99) and new structures yourself via extensibility concept.
- Import of participants from an excel list is not supported: Not for initial shipment, planned with FPS1
- Missing Cost Assignment buttons "Create from destination" at mileages and receipt level: Not for initial shipment, planned with FPS1
- Itemization: only the deduction of Private expense is available in the initial shipment, the rest (Division and Split receipt) is not yet available: Not for initial shipment, planned for future releases
- Merge of receipts are not supported: Not for initial shipment, planned for future releases
- Concurrent assignment: Not for initial shipment planned for future releases (HCM dependency), this feature is provided centrally by HCM.
- Copy of Mileage and copy of Receipt inside the same expense report: Not for initial shipment planned with FPS1

List of Transactions Deprecated in S/4HANA:

Many old features are not relevant anymore, all transactions around travel planning or in relation with old technology will be marked as Deprecated in a first step.

Here the definition of Deprecated and Obsolete statuses:

**Deprecated** *(computing) (of a software feature) to be considered outdated and best avoided and planned to be removed in near future release even though you can still use it now, usually because it has been replaced with a newer feature.*
Therefore, it means the UI / functionality still works and is officially supported but is not recommended to be used anymore. No improvements / new features can be expected. In the foreseeable future it is planned to make it obsolete (see below) in favor of the designated successor UI / functionality.

*(computing) no longer valid, no longer works as expected, must not be used.*

Therefore, it means The UI / functionality must not be used anymore. It is either significantly restricted in functionality (e.g. view only mode) or no longer supported at all. Customers cannot expect that it works correctly. It is recommended that execution is blocked. The UI could be finally removed from the system at a later point in time. The designated successor UI / functionality must be used instead at this phase.

Here the list of transactions marked deprecated for the release S/4HANA 2022

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<td>Automatic Vendor Maintenance</td>
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<td>Create Travel Plan</td>
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<td><strong>PR_WEB_1710</strong></td>
<td>Cost Distribution for Receipts</td>
<td></td>
</tr>
</tbody>
</table>
### Fiori Application

<table>
<thead>
<tr>
<th>Fiori Application</th>
<th>Successor</th>
</tr>
</thead>
<tbody>
<tr>
<td>F0409 Travel Request V1</td>
<td><strong>Obsolete</strong> F0409B My Travel Requests (S/4 HANA)</td>
</tr>
<tr>
<td>F0409A Travel Request V2</td>
<td><strong>Deprecated</strong> F0409B My Travel Requests (S/4 HANA)</td>
</tr>
<tr>
<td>F0584 Travel &amp; Exp V1</td>
<td><strong>Obsolete</strong> F0584B My Travel &amp; Expenses (S/4 HANA)</td>
</tr>
<tr>
<td>F0584A Travel &amp; Exp V2</td>
<td><strong>Deprecated</strong> F0584B My Travel &amp; Expenses (S/4 HANA)</td>
</tr>
</tbody>
</table>

In addition the usage of XI interface is not supported in S/4HANA, the booking of Train ticket with BIBE or Hotel Reservation with HRS is not allowed with XI interface.

These services are available only with our partners (Amadeus and Sabre with the respective products cytric and GetThere).

For more information please check the note [2892303 - Travel Planning External content](#).

### Other Terms

SAP Travel Management, S/4HANA, S4HCM

### 8.5 S4TWL - Plan data is not migrated to SAP S/4HANA

Application Components: FI-SL-SL

#### Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2474069</td>
<td>Reactivate G/L planning</td>
</tr>
</tbody>
</table>

#### Symptom

You have migrated from an ERP system to an S/4HANA Finance or an S/4HANA system. You have used the General Ledger Accounting (new) (FI-GL (new)) planning function. After the upgrade and the migration, you can no longer access the G/L planning data. The planning transactions have disappeared from the SAP menu, as have the IMG activities for G/L planning. In the columns for the planning data, the system always
displays the value 0 if you have defined the following: drilldown reports, Report Painter reports, or Report Writer reports that read G/L planning data (such as planned/actual comparisons).

**Reason and Prerequisites**

The classic ERP FI-GL (new) planning is no longer supported in S/4HANA Finance or S/4HANA and is replaced with the component BPC for S/4HANA (Business Planning and Consolidation, formerly IBPF Integrated Business Planning for Finance). All information about this (links to the installation guides and documentation, other SAP Notes, and so on) can be found consolidated in SAP Note 2081400.

**Solution**

If you cannot immediately convert your entry of G/L planning data and your reporting to BPC for S/4HANA, you can continue to use your G/L planning function for a time in S/4HANA as well via the steps described below. The steps also contain modifications. SAP reserves the right to deactivate the old ERP planning function definitively at some point.

Additional conditions are: The old G/L planning can really only continue to be used. In other words, planning can be done only for ledgers that already existed in the ERP system (but not, for example, for ledgers that were created after the migration). For example, you can no longer add any new customer fields to your old G/L table. Your existing planned/actual comparisons are restricted to the dimensions that they had before the migration. For instance, they cannot report about dimensions of your choice in the universal journal introduced in S/4HANA. The status is frozen to a certain extent.

1. Implement SAP Notes 2227515 and 2226649 to release deactivated functions (or import the relevant Support Package) if you have not already done so.

2. Implement the corrections of technical prerequisite note 2253067 or import the relevant Support Package.

3. In order to activate G/L planning, you must first execute the report FINS_SET_DEPR_STATUS (with the option ‘Activate’) - if this has not already been done - and then insert some transactions into the view FINS_DEPR_OBJECT using transaction SM30. This addition is a modification; SAP can change or delete these entries. The following list is to be considered as a superset; we recommend that you add only the ones that you actually require (Note: adding Transaction GP12N is mandatory). **Point 3) is also the only thing that you have to do if all source code corrections are already present in your system** (so if you have an S4CORE 100 system with an SP level above 1 or if you have an S4CORE 101 (or a higher release) system). **If you are a greenfield customer, you must also refer to point 4.**
• GP12N ("Enter planning data")
• GP12NA ("Display Plan Data")
• FAGLP03 ("Display Plan Line Items")
• GLPLUP ("Upload Plan Data from Excel")
• FAGLGP52N ("Copy Planning Data")
• FAGL_PLAN_VT ("Balance Carryforward: Plan Data")
• FAGLPLSET ("Set Planning Profile")
• FAGLGA47 ("Create Plan Distribution")
• FAGLGA48 ("Change Plan Distribution")
• FAGLGA49 ("Display Plan Distribution")
• FAGLGA4A ("Delete Plan Distribution")
• FAGLGA4B ("Execute Plan Distribution")
• FAGLGA4C (for the plan distribution overview)
• FAGLGA27 ("Create Plan Assessment")
• FAGLGA28 ("Change Plan Assessment")
• FAGLGA29 ("Display Plan Assessment")
• FAGLGA2A ("Delete Plan Assessment")
• FAGLGA2B ("Execute Plan Assessment")
• FAGLGA2C ("Plan Assessment Overview")
• FAGLGCLE ("Activate Plan Line Items")
• FAGLPLI ("Create Planning Layout")
• FAGLPLC ("Change Planning Layout")
• FAGLPLD ("Display Planning Layout")
• GLPLD (also "Display Planning Layout")
• FAGL_CO_PLAN ("Transfer Planning Data from CO-OM")

In the view FINS_DEPR_OBJECT, set the object type TRAN for all of these transactions.

If you use the BAPI BAPI_FAGL_PLANNING_POST for the external data transfer, you must also include the program (object type PROG) SAPLFAGL_PLANNING_RFC in the view.

If you want to use the report FAGL_PLAN_ACT_SEC to activate/deactivate the update of planning data to secondary cost elements (see also SAP Note 1009299), you must also include the program (object type PROG) FAGL_PLAN_ACT_SEC here.

Save the newly added entries.

4. Only for customers who have installed a fresh S/4HANA Finance or S/4HANA system (a greenfield approach) or who have migrated from classic G/L (table GLT0):

• Call transaction GLPLINST, enter the table FAGLFLEXT as the totals table, and press F8 ("Execute") and F3 ("Back").
• Use transaction SE38 to create the program ZCOPY_ENTRIES_FOR_GL_PLANNING (in a valid customer package) with the title "Copying of Entries for GL Planning”, type 1 ("Executable Program"). Copy and paste the coding of ZCOPY_ENTRIES_FOR_GL_PLANNING from the attachment 'ZCOPY_ENTRIES_FOR_GL_PLANNING'. After program was created, navigate to the text elements of the program. Create text symbol 001 with the text "Warning", text symbol 002 with the text "Do you want to continue? Integrated FI currencies of the non-leading ledgers for the company code can't be changed any more.", text symbol 003 with text "OK" and text symbol 004 with the text "Cancel". Activate the text elements.

• Decide in which ledgers and company codes you want to use planning. If this includes new company codes just recently created, go to IMG activity Financial Accounting->Financial Accounting Global Settings->Ledgers->Ledger->Define Settings for Ledgers and Currency Types (transaction FINSC_LEDGER). Here, go to view 'Company Code Settings for the Ledger' for each of the affected ledgers and check and maintain currency settings according to your requirements in the new company codes.

• Execute the program ZCOPY_ENTRIES_FOR_GL_PLANNING for all ledgers and all company codes in which you want to use planning.

**Attention:**
Execute report ZCOPY_ENTRIES_FOR_GL_PLANNING only after you made sure currency settings are correctly maintained for the affected company codes in transaction FINSC_LEDGER.

The purpose of report ZCOPY_ENTRIES_FOR_GL_PLANNING is to create entries in obsolete tables T881 and T882G. These will be used in the reactivated classic G/L planning. Once created, there is no IMG activity to remove the entries from the obsolete tables T881 and T882G in S/4HANA. These entries have an influence on maintenace of the 2nd and 3rd integrated FI currency in transaction FINSC_LEDGER. If entries in table T882G exist, 2nd and 3rd integrated FI currencies are not inherited from the leading to the non-leading ledger, because migrated company codes are identified via existing entries in table T882G to prevent changes. In ECC integrated FI currencies were not automatically inherited to the non-leading ledgers. By contrast, these properties are inherited for new created company codes in S/4HANA.

• Check the assignment of your ledgers to the General Ledger Accounting (new) update scenarios (transaction SM34, view cluster VC_FAGL_LEDGER) and, if necessary, assign the desired update scenarios to your ledgers. During the transfer of planning data from CO to GL, only the fields assigned here (via the scenarios) are updated. (These scenarios are irrelevant for the actual data update in S/4HANA; they apply only for classic planning data.)

• If you are on S4CORE 100 or SAP_FIN 730 please make sure that SAP Note 2346854 is implemented. Otherwise, the system might think that you still need to
carry out a migration (even though you are a greenfield customer) and might therefore set a posting lock; you are then unable to carry out any further actual postings.

- If the planning layouts should be missing when executing planning transaction GP12N, please execute transaction GLPLIMPORT to import the following planning layouts from client 000:
  - 0FAGL-01
  - 0FAGL-02
  - 0FAGL-03
  - 0FAGL-04
  - 0FAGL-05
  - 0FAGL-06
  - 0FAGL-07

5. You should now be able enter, display and report G/L planning data, and all of your functions in the G/L planning environment should exist and work properly.

6. If you migrate from classic G/L, the planning data which existed already before migration is copied to table GLT0_BCK. To copy this data to the reactivated planning tables, please ask the SAP support to give you access to pilot note 2924568 - SAP S/4HANA: Transfer of classic planning data from table GLT0_BCK.

7. The G/L planning transactions (see the list above) are no longer available in the SAP menu, and the G/L planning IMG activities are also not included in the SAP Reference IMG. We recommend creating a folder in your favorites that contains all the transactions you require. The following is a list of the IMG activities or their transaction codes:

- SM30, view V_T001B_PL ("Define Plan Periods")
- GLPV (for defining planning versions)
- GLP2 (for assigning and activating planning versions)
- FAGLGCLE ("Activate Line Items")
- GP30 (for defining distribution keys)
- FAGLPLI ("Create Planning Layout")
- FAGLPLC ("Change Planning Layout")
- FAGLPLD ("Display Planning Layout")
- GLPLADM (for creating/changing planner profiles)
- GLPLANZ (for displaying planner profiles)
- SM30, view V_FAGL_T889A ("Define Document Types for Planning")
- SNRO, object FAGL_PL_LC ("Define Number Ranges for Plan Documents")
- FAGL_CO_PLAN ("Transfer Planning Data from CO-OM")
- KE1Z ("Transfer Planning Data from CO-PA")

8. If you are missing plan/actual reporting transactions like S_E38_98000088 or S_PL0_86000031, you can easily recreate them with transaction maintenance SE93- >Create, on the next popup select "Transaction with parameters (parameter transaction)"
Enter, on the next screen copy the all the values from the respective transaction in your ERP system (open SE93 in your ERP system, enter e.g. transaction S_E38_98000088, press "Display" and copy the values you find there)

9. Note that you only require SAP Note 2403964 if you want to reactivate certain planning transactions only for the component FI-SL. In this case this SAP Note 2474069 is not required.

8.6 **S4TWL – Migration from account solution to ledger solution**

Application Components: FI-GL, FI-AA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3042755</td>
<td>S4TWL - Migration from account solution to ledger solution</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA or you are already in an SAP S/4HANA release and would like to use the parallel ledger functionality. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

You are using parallel accounts in an SAP ERP or SAP S/4HANA system and would like to work with parallel ledgers within SAP S/4HANA.

**Solution**

**Introduction**


Customers who have used parallel GL accounts to represent different accounting principles would need to move to parallel ledgers in order to fully benefit from the innovations in SAP S/4HANA.

**Business Process related information**
If you use parallel GL accounts to represent different accounting principles in SAP ERP, you can still perform a system conversion to SAP S/4HANA and continue to use parallel GL accounts for this purpose. However, to fully profit from recent and future innovations in SAP S/4HANA you would need to move to parallel ledgers.

For a move to parallel ledgers, you need to consider the following:

- If you use SAP ERP and you would like to switch to parallel ledgers, you can do the migration already in SAP ERP before converting to SAP S/4HANA. Prerequisite for this migration is the usage of the New General Ledger in SAP ERP. SAP offers services to perform the migration. Refer to SAP note 756146.
- If you already use SAP S/4HANA and would like to do the transformation from parallel accounts to parallel ledgers, SAP also offers a service to do the migration. Please contact your SAP account team if you are interested.
- Alternatively, you could do the migration in SAP S/4HANA by setting up a new company code and perform a data migration.

Note: If you plan to do your transition from SAP ERP to SAP S/4HANA by a new implementation of SAP S/4HANA, we strongly recommend that you no longer use the account approach for parallel accounting.

Other Terms

Parallel accounts, parallel ledgers

8.7 S4TWL - Special Purpose Ledger

Application Components:FI-SL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3015013</td>
<td>S4TWL - Special Purpose Ledger</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution
**Description**

The usage of special purpose ledger is partly included in the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, this topic is listed under the ID 430.

This note shall provide information on the restrictions that apply for special purpose ledger in SAP S/4HANA.

**Business Process related information**

You find a description of the functionality in compatibility scope in the SAP S/4HANA Feature Scope Description > section **Special Ledger (FI-SL)**.

Generally, special purpose ledger as framework is not part of compatibility scope, which means it will be available and supported beyond the compatibility scope expiry date. However, special ledgers and respective tables and reports which have been defined for applications that are part of the compatibility scope will not be supported beyond expiry date. This applies to the following applications:

- EC-PCA - Classical profit center accounting (compatibility scope ID 427)
- Cost of Sales ledger (compatibility scope ID 430)
- Consolidation preparation - Closing Operations (compatibility scope ID 430)

Custom-defined ledgers based on the applications listed above will also not be support beyond expire date. Custom-defined ledgers based on any other SAP applications or custom-built tables will be supported.

Refer to the attached spreadsheet for detailed availability description of the SAP delivered ledgers and related tables.

**Required and Recommended Action(s)**

Refer to the following notes and simplification items for further information on the handling the deprecated applications.

- Classical profit center accounting - note 2993220
- Cost of Sales ledger - note 3006586
- Consolidation preparation - Closing Operations - note 2999249

For all other special purpose ledgers no actions are required.

**Other Terms**
SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Special Ledger, ID 430

8.8 S4TWL - Cost of Sales Ledger

Application Components:FI-SL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3006586</td>
<td>S4TWL - Cost of Sales Ledger</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

The usage of the cost of sales ledger is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, cost of sales ledger can be found under the ID 430.

This means that you need to migrate from cost of sales ledger to its designated alternative functionality cost of sales accounting (CSA) reporting in SAP S/4HANA based on the Universal Journal before expiry of the compatibility pack license.

Also refer to the SAP S/4HANA Feature Scope Description section Cost of Sales Ledger.

Business Process related information

The cost of sales ledger is used to provide a type of profit and loss statement that matches sales revenues to the costs of the products sold. It is based on functional areas. In SAP ERP classic General Ledger Accounting, functional areas are always managed and reported only in FI Special Ledger. Table GLFUNCT, ledger 0F, contains the totals records for cost of sales accounting.

In SAP S/4HANA the contents of the cost of sales ledger and all special ledgers created in table GLFUNCT are included in the Universal Journal (table ACDOCA).
Required and Recommended Action(s)

To use CSA reporting in SAP S/4HANA based on the Universal Journal, you need to fulfill several prerequisites. Refer to SAP note [932272](#) for a detailed explanation. The main points to consider for SAP S/4HANA are as follows:

- If you have used classic General Ledger Accounting or General Ledger Accounting (new) without CSA in SAP ERP, CSA reporting cannot be used in S/4 for the years in question because the system cannot derive functional areas properly. Thus, after a conversion to SAP S/4HANA, CSA reporting would initially still need to be done in the FI-SL ledger 0F.

- Once the correct derivation of a functional area has been set-up and complete and correct account assignments in Accounting can be ensured, CSA reporting based on the Universal Journal can take place. However, SAP recommends that you still use CSA reporting in FI-SL for a transition period of at least one year.

- To enable the complete assignment of allocations and postings from CO in SAP S/4HANA, refer to SAP Note [2680760](#).

Other Terms

SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Special Ledger, ID 430

8.9 S4TWL - Report Writer / Report Painter in Finance and Controlling


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>

Symptom
You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Report Writer and Report Painter are tools for creating reports that fulfil reporting requirements in Finance. The usage of Report Writer and Report Painter is partly included in the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, this topic is listed under the ID 433 - Reporting/Analytics in Finance and Controlling.

This note shall provide information on the restrictions that apply for Report Writer and Report Painter in SAP S/4HANA.

**Business Process related information**


Report Writer and Report Painter as tools are not part of compatibility scope, which means they will be available and supported beyond the compatibility scope expiry date. However, Report Writer / Painter libraries and respective reporting tables and reports for applications that are part of the compatibility scope will not be supported beyond expiry date. This applies to the following applications:

- EC-PCA - Classical profit center accounting (compatibility scope ID 427)
- Cost of Sales ledger (compatibility scope ID 430)
- Consolidation preparation - Closing Operations (compatibility scope ID 430)
- Reporting for Product Cost Controlling based on KKBx tables

Custom-built reports and libraries will also not be support beyond expire date if they are based on reporting tables of the applications listed above. Refer to the attached document for detailed status description of the SAP delivered Report Writer libraries and related table structures and applications.

**Required and Recommended Action(s)**

Which reporting capabilities you can use as alternative to Report Writer / Report Painter depends on the reporting strategies for the alternative applications of the functionalities in
compatibility scope. Refer to the following notes and simplification items for further information.

- Classical profit center accounting - note 2993220
- Cost of Sales ledger - note 3006586
- Consolidation preparation - Closing Operations - note 2999249
- Reporting for Product Cost Controlling based on KKBx tables - note 326525

General recommendations for financial reporting in SAP S/4HANA you find in note 2579584.

Other Terms


8.10 S4TWL - Schedule Manager

Application Components: CA-GTF-SCM, FI-GL-GL-G

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3003364</td>
<td>S4TWL - Schedule Manager</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Schedule Manager is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Schedule Manager can be found under the ID 431.
This means that you need to migrate from Schedule Manager to its designated alternative functionality SAP S/4HANA Financial Closing Cockpit before expiry of the compatibility pack license. This note shall provide an overview how you can migrate to the alternative functionality.

**Business Process related information**


Note that SAP S/4HANA Financial Closing cockpit requires an extra license. As an alternative you may consider using standard Closing Cockpit (without license). Refer to SAP note [2332547 - S4TWL - Closing Cockpit with S/4HANA OP](https://support.sap.com) for more information.

SAP also offers SAP S/4HANA Cloud for advanced financial closing as strategic solution for orchestrating entity close across complete system landscapes. For further information refer to SAP note [2873915 - FAQ: SAP S/4HANA Cloud for advanced financial closing](https://support.sap.com).

**Required and Recommended Action(s)**

As Schedule Manager can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality.

If decide to use the SAP S/4HANA Financial Closing cockpit you can take over your Schedule Manager task list as templates to this application.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, SCMA, ID 431
9. Financials - Accounts Payable/Accounts Receivable

9.1 S4TWL - Integration with FSCM Biller Direct (FI-AR)

Application Components: FIN-FSCM-BD-AR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270384</td>
<td>S4TWL - Integration with FSCM Biller Direct (FI-AR)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With the integration of SAP Accounts Receivable (FI-AR) with FSCM Biller Direct it is possible to offer to end-customers the convenience of receiving invoices, viewing account status, and making payments online as a self-service. Integration of FSCM Biller Direct with FI-AR is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP Note 2269324. In the compatibility matrix attached to SAP Note 2269324, this topic can be found under the ID 437.

Business Process related information

The functionality integration of SAP Accounts Receivable (FI-AR) with FSCM Biller Direct is not the target architecture, but still available and can be used within SAP S/4HANA, on-premise edition 1511.

SAP Biller Direct has been in maintenance mode for years and there is no new development for this product.

Required and Recommended Action(s)

None
9.2 S4TWL - Integration with FSCM Biller Direct (FI-AP)

Application Components: FIN-FSCM-BD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270386</td>
<td>S4TWL - Integration with FSCM Biller Direct (FI-AP)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

With the integration of SAP Accounts Payable (FI-AP) with FSCM Biller Direct it is possible to offer to end-vendors the convenience of uploading invoices, monitor the corresponding account movements online as a self-service.

The integration of SAP Accounts Payable (FI-AP) with FSCM Biller Direct is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, FSCM Biller Direct integration with FI-AP can be found under the ID 437. Refer to SAP Ariba solutions as its designated alternative functionality.

Required and Recommended Action(s)

As FSCM Biller Direct integration with FI-AP can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

Other Terms

Compatibility Scope, System Conversion, Upgrade
10. Financials - Asset Accounting

10.1 S4TWL - DATA STRUCTURE CHANGES IN ASSET ACCOUNTING

Application Components: FI-AA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270387</td>
<td>S4TWL - Asset Accounting: Changes to Data Structure</td>
</tr>
</tbody>
</table>

Symptom

You have been using classic Asset Accounting until now and will be using new Asset Accounting in SAP S/4HANA.

Other scenarios (such as the switch from SAP ERP 6.0, EhP7 with new Asset Accounting to SAP S/4HANA) are not considered here.

Reason and Prerequisites

To be able to use new Asset Accounting in SAP S/4HANA, you have to also use new General Ledger Accounting. If you were using classic General Ledger Accounting before the conversion to SAP S/4HANA, new General Ledger Accounting is activated automatically with the conversion.

Solution

The data structures of Asset Accounting have changed as follows:

- Actual data:
  - Actual values from tables ANEP, ANEA, ANLP, ANLC are saved in table ACDOCA in new Asset Accounting.
    - The values from table ANEK are saved in tables BKPF and ACDOCA in new Asset Accounting.
    - Postings are still made to the table BSEG.
  - You can continue to use your existing reports and developments with the help of compatibility views. More details about this can be found below.

- Statistical data and plan data:
  - Statistical values (for example, for tax reasons) from tables ANEP, ANEA, ANLP and ANLC, are saved in new Asset Accounting in table FAAT_DOC_IT.
Planned values from tables ANLP and ANLC are saved in table FAAT_PLAN_VALUES in new Asset Accounting.

10.1.1 Compatibility Views: System and User Usage

The Asset Accounting tables ANEA, ANEP, ANEK, ANLC and ANLP are no longer updated in SAP S/4HANA.

However, to be able to continue using the reports of Asset Accounting and your own developments, selections from these tables are automatically diverted to the corresponding compatibility views. These compatibility views make the information from the new data store available in the format of the original tables. If it should be necessary to read the contents of the original tables for a particular reason, you can do this using DDIC views (for example, FAAV_ANEA_ORI). If you use selections from ANLP please refer to note 2297425 to check some specific limitations.

<table>
<thead>
<tr>
<th>Table</th>
<th>Compatibility Views</th>
<th>Access to Original Table</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANEA</td>
<td>FAA_ANEA</td>
<td>FAA_ANEA_ORI</td>
</tr>
<tr>
<td>ANEP</td>
<td>FAA_ANEP</td>
<td>FAA_ANEP_ORI</td>
</tr>
<tr>
<td>ANEK</td>
<td>FAA_ANEK</td>
<td>FAA_ANEK_ORI</td>
</tr>
<tr>
<td>ANLC</td>
<td>FAA_ANLC</td>
<td>FAA_ANLC_ORI</td>
</tr>
<tr>
<td>ANLP</td>
<td>FAA_ANLP</td>
<td>FAA_ANLP_ORI</td>
</tr>
<tr>
<td>V_ANEPK</td>
<td>FAA_V_ANEPK</td>
<td>FAAV_V_ANEPK</td>
</tr>
<tr>
<td>ANEKPV</td>
<td>FAA_ANEKPV</td>
<td>FAAV_ANEKPV</td>
</tr>
<tr>
<td>V_ANLSUM_2</td>
<td>FAA_V_ANLSUM_2</td>
<td>FAAV_V_ANLSUM_2</td>
</tr>
<tr>
<td>V_ANLAB</td>
<td>FAA_V_ANLAB</td>
<td>FAAV_V_ANLAB</td>
</tr>
<tr>
<td>V_ANLSUM_1</td>
<td>FAA_V_ANLSUM_1</td>
<td>FAAV_V_ANLSUM_1</td>
</tr>
<tr>
<td>V_ANLSUM_5</td>
<td>FAA_V_ANLSUM_5</td>
<td>FAAV_V_ANLSUM_5</td>
</tr>
</tbody>
</table>

The tables listed above are part of the existing DDIC view. Selections from the DDIC views listed below are automatically diverted to the corresponding compatibility view.

<table>
<thead>
<tr>
<th>DDIC View</th>
<th>Compatibility View</th>
<th>DDIC View</th>
</tr>
</thead>
<tbody>
<tr>
<td>V_ANEPK</td>
<td>FAA_V_ANEPK</td>
<td>FAAV_V_ANEPK</td>
</tr>
<tr>
<td>ANEKPV</td>
<td>FAA_ANEKPV</td>
<td>FAAV_ANEKPV</td>
</tr>
<tr>
<td>V_ANLSUM_2</td>
<td>FAA_V_ANLSUM_2</td>
<td>FAAV_V_ANLSUM_2</td>
</tr>
<tr>
<td>V_ANLAB</td>
<td>FAA_V_ANLAB</td>
<td>FAAV_V_ANLAB</td>
</tr>
<tr>
<td>V_ANLSUM_1</td>
<td>FAA_V_ANLSUM_1</td>
<td>FAAV_V_ANLSUM_1</td>
</tr>
<tr>
<td>V_ANLSUM_5</td>
<td>FAA_V_ANLSUM_5</td>
<td>FAAV_V_ANLSUM_5</td>
</tr>
</tbody>
</table>

Other Terms

SAP S/4HANA; Asset Accounting; ACDOCA; compatibility view
10.2 S4TWL - ASSET ACCOUNTING

Application Components: FI-AA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270388</td>
<td>S4TWL - Asset Accounting: Parallel valuation and journal entry</td>
</tr>
</tbody>
</table>

Symptom

You have been using classic Asset Accounting until now and will be using new Asset Accounting in SAP S/4HANA.

Other scenarios (such as the switch from SAP ERP 6.0, EhP7 with new Asset Accounting to SAP S/4HANA) are not considered here.

Reason and Prerequisites

To be able to use new Asset Accounting in SAP S/4HANA, you have to also use new General Ledger Accounting. If you were using classic General Ledger Accounting before the conversion to SAP S/4HANA, new General Ledger Accounting is activated automatically with the conversion.

Solution

10.2.1 Parallel Valuation and Journal Entry

In new Asset Accounting you can map parallel valuations with the ledger approach or accounts approach. A mixture of the two is not supported (ledger with accounts approach).

- You can record the leading valuation of Asset Accounting in any depreciation area of new Asset Accounting. It is no longer necessary to use depreciation area 01 for this. The system now posts both the actual values of the leading valuation and the values of parallel valuation in real time. This means the posting of delta values has been replaced; as a result, the delta depreciation areas are no longer required and are no longer supported.
- New Asset Accounting makes it possible to post in real time in all valuations (that is, for all accounting principles). You can track the postings of all valuations, without having to take into account the postings of the leading valuation, as was partly the case in classic Asset Accounting.
Asset Accounting is based on the universal journal entry. This means there is no longer any redundant data store.

- Reconciliation postings are no longer necessary with closing operations as General Ledger Accounting and Asset Accounting are reconciled permanently anyway due to the universal journal entry.
- The hitherto existing periodic posting run for APC values is redundant.
- Postings for group assets are redundancy-free.

**Parallel Valuation in Realtime**

For each asset-related transaction (acquisition, capitalization of assets under construction (AUC), retirement, post-capitalization and so on), the asset values for all posting depreciation areas are updated in realtime.

**10.2.2 Separate Document for each Valuation**

Different accounting principles or valuations are represented - as in new General Ledger Accounting – in separate ledgers (for the ledger approach) or in a separate set of accounts (for the accounts approach).

The depreciation areas have equal status. Separate accounting-principle-specific documents are posted for each accounting principle or valuation.

A business transaction created using integration is split by the system into the operational part and the valuating part. A posting is made in each case against a technical clearing account. For the asset acquisition using integration you require a *new technical clearing account for integrated asset acquisition*; however, for the asset retirement using integration the existing clearing accounts asset retirement with *revenue and asset retirement clearing* are used. The operational part is posted across accounting principles, the valuating part is posted accounting-principle-specifically.

**10.2.3 Entry of Value Differences for Each Depreciation Area or Accounting Principle (Ledger Group).**

Value differences for each accounting principle or depreciation area can be entered in a separate transaction (AB01L) for an asset acquisition, a post-capitalization, and a manual depreciation or write up. This has the following consequences:

- It is no longer necessary (or possible) to restrict the transaction types to individual depreciation areas.
- The user exit APCF_DIFFERENT_AMOUNTS_GET is no longer supported.
10.2.4 Entering a Business Transaction

Using the appropriate fields, you can restrict the posting to an accounting principle and depreciation areas, or limit it to certain areas using the selection of a depreciation area. The following applies when making entries: The last confirmed entry (restriction) applies for the posting. In addition, you can adjust the line items of particular depreciation areas for certain transactions using the Change Line Items function. If you have changed basic values (such as for the accounting principle, depreciation areas or the posting amount), the line items are generated again. A business transaction is always entered in local currency. If you limit the posting to one or more depreciation areas in the same foreign currency, then the entry (and posting) is made in this foreign currency.

If you select depreciation areas to which differing foreign currencies are assigned and no depreciation area was selected in local currency, the system issues an error message; you have to enter several postings for a business transaction like this.

10.2.5 Updating Journal Entries

The journal entries are updated in Financial Accounting at asset level. The entry also contains the asset number.

10.2.6 Asset Balance Changes in Real Time/Immediately in All Valuations

In SAP S/4HANA, all changes to asset balances are posted to the general ledger in real time or immediately. Periodic asset balance postings are therefore superfluous and are no longer supported. This also applies for the processing of special reserves.

This affects the Customizing settings for the depreciation area as follows: When posting to the general ledger, all options previously used to post asset balances to the general ledger periodically, no longer apply. Instead, one of the following options must be chosen for the affected depreciation area:

<table>
<thead>
<tr>
<th>Depreciation Area</th>
<th>Indicator “Posting in GL”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area for special reserves (ledger approach and accounts approach)</td>
<td>4 - Area Posts APC Immediately, Depreciation Periodically</td>
</tr>
<tr>
<td>Area for parallel valuation with the accounts approach</td>
<td>4 - Area Posts APC Immediately, Depreciation Periodically</td>
</tr>
<tr>
<td>Area for parallel valuation with the ledger approach</td>
<td>1 - Area Posts in Real Time</td>
</tr>
</tbody>
</table>

Recommendation for depreciation areas in a foreign currency:
In classic Asset Accounting, you may have a depreciation area in a foreign currency that posts to the general ledger periodically (in other words, in Customizing for the depreciation area, you have selected the option Area Posts APC and Depreciation on Periodic Basis).
However, in new Asset Accounting it is **no** longer possible that a foreign currency area posts to the general ledger. We recommend that you choose the option **0 - Area Does Not Post** for postings to the general ledger. Consequently, this foreign currency area of Asset Accounting is then managed as a statistical area.

Note about derived depreciation areas for special reserves:
The following applies for both the ledger approach and the accounts approach: For areas for special reserves, you must choose either option **4 – Area Posts APC Immediately, Depreciation Periodically** or option **0 – Area Does Not Post**.

### 10.2.7 Reconciliation Between Asset Accounting and the General Ledger

It is **no** longer necessary to reconcile the general ledger with the subledger of Asset Accounting as from now on Asset Accounting is permanently reconciled with the general ledger automatically. The programs for reconciliation that existed until now (RAABST01, RAABST02 and FAA_GL_RECON) are therefore **no** longer available in SAP S/4HANA.

### 10.2.8 Unilateral Assets

Depending on the legal requirements, it may be necessary to manage a fixed asset in one accounting principle (such as local valuation) as an asset, but in a different accounting principle (for example, IFRS) **not** to manage it as an asset, but post the costs directly to profit and loss instead. You can map these differing capitalization rules in new Asset Accounting using 'unilateral' assets.

### 10.2.9 Transaction Types

In new Asset Accounting, it is **not** possible and also **not** necessary to restrict transaction types to depreciation areas. This is **not** necessary since, when you enter a transaction, you can restrict it to a depreciation area or accounting principle. In addition, in a posting transaction, you can select the depreciation areas to be posted to. This can significantly reduce the number of transaction types that need to be defined in the system.

If you nonetheless have migrated transaction types that are restricted to depreciation areas (table TABWA or view cluster V_TABWA), this is rejected by the system.

Investment support and also revaluation and new valuation are an exception:

- The transaction types for investment support and revaluation are automatically generated by the system when you create a corresponding measure, and therefore are restricted to the depreciation area to be posted to.
• The transaction types for revaluation and new valuation that relate to transaction type group 81/82/89 must continue to be restricted to depreciation areas.

Customizing for Transaction Types:

Customizing for restricting transaction types to depreciation areas is - aside from the above exceptions - now completely superfluous. Therefore the activities for this are no longer included in the IMG structure for Asset Accounting.

10.2.10 Default Transaction Types for Down Payments

Default transaction types for down payments are no longer defined in Customizing activity Determine Transaction Types for Internal Transactions (table TABWV) as previously the case. They are now defined in Customizing activity Specify Default Transaction Types (table TABWD). The system moves existing entries.

The same applies for the default transaction type Gain/loss on retirement for internal posting of write-ups from gain/loss from asset retirement (the EVL rule).

10.2.11 Document Display

A business transaction is split (1) into an operational part that creates an accounting-principle-independent or ledger-group-independent document and (2) into a valuating part that creates an accounting-principle-specific/ledger-group-specific document for each valuation. Several documents are posted, therefore. These documents are displayed together in the document display. The system displays the complete integrated asset acquisition in accordance with a valuation that you have selected.

If a business transaction is not entered in Asset Accounting using integration, then only the valuating documents are posted by the entry. For each valuation that an asset manages, a valuation-specific document is created.

For each valuation, an accounting-principle-specific document is displayed in the document display. The operational document is not linked with the valuating document, and therefore cannot also be displayed.

This document display in Asset Accounting is available in both document simulation and in the document display.

You can switch the view between the individual valuations (choose the Change Accounting Principle pushbutton) and between the currency types (choose the Change Display Currency pushbutton).

Standard Layout for Document Display:
There is the following standard layout for the document display in new Asset Accounting: *Standard: Asset Accounting (New) (3SAP)*.

We recommend that you use this standard layout or a copy of it adapted to meet your requirements, since the layout supports you in interpreting the accounting-principle-specific documents.

**10.2.12 Asset Explorer**

In the navigation area of the Asset Explorer, the depreciation areas of the relevant assignment are displayed grouped according to accounting principles. The accounting principle with the leading ledger appears uppermost.

**10.2.13 Changed and deleted functions in detail**

**10.2.14 Post-Capitalization**

You enter post-capitalization both gross and net in the same transaction (transaction ABNAL). The system always calculates the depreciation values, meaning in the standard system it assumes that you are entering gross values.

If you want to enter the post-capitalization net, you have to specify the net amount in the transaction, and reset the depreciation values in the line items.

**10.2.15 Revaluation**

A revaluation is always posted accounting principle-specific. The *Accounting Principle* field in transaction ABAWL (*Revaluation*) is therefore a required entry field.

It is **not** possible to have manual revaluation postings together with automatic revaluation through indexes on the same fixed asset in the same depreciation area.

**10.2.16 Retirement: Distribute the proportional value percentage rate to prior-year asset acquisitions and current-year acquisitions**

If you have been using user exit AFAR0004 to date, you have to move your enhancement to the following BAdI method:

BAdI: FAA_DC_CUSTOMER, method: PROPVAL_PERCENT_ON_SPECIAL_RET.

You can copy the code from the user exit 1:1 when doing so, since the enhancement interface has not been changed.
10.2.17 Retirement: Posting with net book value

If up to now you have been using the "Post Net Book Value at Retirement" logic, note the following:

The restriction of posting logic to certain depreciation areas is done in classic Asset Accounting using area types (as set out in SAP Note 1069166). In new Asset Accounting, this setting is replaced by the new Customizing activity Post Net Book Value Instead of Gain/Loss -> Subactivity Specify Depreciation Areas for Net Book Value Posting.

10.2.18 Partial retirement

With a partial retirement it is no longer possible to adjust the retirement amount manually, for example for cost-accounting areas.

Instead you must perform an adjustment posting in an extra step for the cost-accounting area.

10.2.19 Depreciation Posting Run

The determination of the accumulated depreciation of an asset and the posting of depreciation expense takes place in the system from now on at different points in time:

1. Calculate depreciation (transaction AFAR):
   The planned depreciation is determined with each master record change and with each posting on the asset and updated in the database accordingly.

2. Post depreciation (transaction AFAB):
   The depreciation run adopts the planned asset values and posts them in Financial Accounting. The posting document is updated in Financial Accounting at asset level.

The new program for posting depreciation (depreciation run) has the following characteristics:

- For the update of accumulated depreciation and depreciation expense, the following applies:
  o The planned depreciation is determined with master record changes and with postings on the asset and updated in the database accordingly.
  o The depreciation run adopts the planned asset values and posts them.
  o The journal entry is updated in Financial Accounting at asset level.
- Errors with individual assets do not necessarily need to be corrected before period-end closing; period-end closing can still be performed.
- You have to make sure that all assets are corrected by the end of the year only so that depreciation can be posted completely.
• It is possible to execute a mid-year test run (also the first run of a period) with a restriction on assets.
• The following applies to parallel processing. The program always carries out parallel processing.

**Caution:**
You can still specify a server group.
  o If you specify a server group, the system behaves as it has until now.
  o Until now if nothing was specified for the server group then no parallel processing took place. However, in the new program parallel processing takes place for the depreciation run on all available servers.
• Only the following statuses exist now for the depreciation run:
  o Errors occurred
  o Documents posted successfully
  o No documents to post

You can check the status of the depreciation run in the log (job log or spool output) or in the Schedule Manager.

• The following constraints still apply:
  o In a test run, the depreciation run can be started in dialog with a limit to a maximum of 1000 assets.
  o The update run can only be started in the background.
  o In an update run, the company code must be capable of being posted to, in other words, the posting periods must be open.
• If the program is started in the background, an entry is written in the Schedule Manager for each combination of company code/accounting principle (ledger group).

One difference now is that it is no longer necessary to specify a run type because the program recognizes whether the depreciation run is being run for the first time or whether it is a repeat run.

You can no longer jump directly from the depreciation log to line items in an update run as you could before in classic Asset Accounting.
Instead however, you can generate a list of posted depreciation documents for one or more periods in the general ledger. In the journal entry the system updates the documents for depreciation in Financial Accounting at asset level. As such you have the complete detailed information available in the document. For example, create a list of line items in the general ledger by choosing **Accounting -> Financial Accounting -> General Ledger -> Account -> Change/Display Items (New)** (program FAGL_ACCOUNT_ITEMS_GL) in the SAP Easy Access Menu. Alternatively, you can choose a corresponding report under **Accounting -> Financial Accounting -> General Ledger -> Information System -> General Ledger Reports -> Line Items -> G/L Line Items, List for Printing.** Select the relevant documents for the desired combination of G/L accounts, document type and posting period/year.
Another option is to use the app *Display Line Items in General Ledger*. Here you can filter the line items for status "All Items" and for ledger, company code, asset and where necessary G/L account.

The smoothing method is no longer necessary and is therefore no longer supported. If you have used this method before the conversion to SAP S/4HANA, you may observe changes in the book values in the period after the conversion.

As of release SAP S/4HANA 1809, the BSEG table will no longer be updated with the depreciation run (transaction AFAB, AFABN). (See also SAP Note 2383115.) It is also no longer possible to subsequently activate this update.

You can still use program RAPOST2001 (transaction AFBP) to display depreciation runs in the Schedule Manager. However, the selection screen of the program was adjusted to the new program logic for posting depreciation.

### 10.2.20 Cross-Company Code Posting of Depreciation and Interest

Controlling **no** longer supports any cross-company code processes in a simplified manner. This means: In SAP S/4HANA it is **not** possible to post depreciation and interest expense to a CO receiver object that is in a different company code to the fixed asset. The cross-company code cost center check can **no** longer be activated. For more information, see SAP Note 2913340.

### 10.2.21 Insurance Values

Until now there were two ways to map insurable values in the system:

1. Defining specific information for insuring the complex fixed asset in the asset master record
2. Managing insurance values in a dedicated depreciation area

In SAP S/4HANA only the second option is supported, the management of insurable values in a dedicated depreciation area.

The Customizing activities for the first option are **no** longer available. Their corresponding fields/field groups in the asset master record are also **no** longer available.

To map insurable values in SAP S/4HANA, you must create a new depreciation area for insurance values (area type 05) in the chart of depreciation and define allowed entries for the depreciation area in the asset classes of the affected complex fixed assets. Note that new depreciation areas can only be implemented for new fixed assets, not for existing fixed assets. Existing fixed assets must therefore be transferred manually with the conversion to SAP S/4HANA, alternatively you can also implement and build the new depreciation areas in your ERP system for existing fixed assets before the conversion to...
SAP S/4HANA. The usual asset lists and journal entry reports are available for reporting. Special reports for reporting insurance values are no longer necessary.

Please check note 2403248 for the availability of a tool to subsequently create new depreciation areas for assets already in use.

10.2.22 Leasing Management

The leasing opening entry from the asset master record is not supported in SAP S/4HANA.

You can use the Leasing solution of the component Flexible Real Estate Management (RE-FX) instead. For more information, see SAP Note 2255555.

10.2.23 BAPIs and BAdIs

Changed BAPIs

In the BAPIs that already existed in classic Asset Accounting, the fields Accounting Principle/Ledger Group and Depreciation Area have been added.

You are only allowed to fill these fields if the Customizing switch for new Asset Accounting is active.

The following BAPIs from classic Asset Accounting have been adapted for new Asset Accounting:

<table>
<thead>
<tr>
<th>Business Object: Short Description</th>
<th>Business Object: Object Name</th>
<th>Function Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asset Acquisition</td>
<td>AssetAcquisition</td>
<td>BAPI_ASSET_ACQUISITION_CHECK,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BAPI_ASSET_ACQUISITION_POST</td>
</tr>
<tr>
<td>Asset Retirement</td>
<td>AssetRetirement</td>
<td>BAPI_ASSET_RETIREMENT_CHECK,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BAPI_ASSET_RETIREMENT_POST</td>
</tr>
<tr>
<td>Asset Post-Capitalization</td>
<td>AssetPostCapitaliztn</td>
<td>BAPI_ASSET_POSTCAP_CHECK,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BAPI_ASSET_POSTCAP_POST</td>
</tr>
<tr>
<td>Asset Document Reversal</td>
<td>AssetReversalDoc</td>
<td>BAPI_ASSET_REVERSAL_CHECK,</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BAPI_ASSET_REVERSAL_POST</td>
</tr>
</tbody>
</table>

New BAPIs

There are the following new BAPIs:

<table>
<thead>
<tr>
<th>Business Object: Short Description</th>
<th>Business Object: Object Name</th>
<th>Function Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assets: Down payment</td>
<td>AssetDownPayment</td>
<td>BAPI_ASSET_DOWNPAYMENT_CHECK,</td>
</tr>
</tbody>
</table>
## Changed BAdIs

In release SAP S/4HANA 2020, the following Business Add-Ins (BAdIs) for the depreciation calculation have been adjusted for technical reasons:

- Customer-Specific SAP Standard Enhancements (FAA_DC_CUSTOMER) and
- BAdI for Customer-Specific Enhancements (FAA_EE_CUSTOMER)

If you use implementations of these BAdIs, you must check them and adjust them if necessary. For more information, read the long text of error message AU176 (*Check on BAdI implementation for depr. calcul. required; see long text*).

## New BAdIs

Until now you could use Business Add-In (BAdI) BADI_FIAA_DOCLINES to make customer-specific changes to the asset document. As of release SAP S/4HANA 1909, this BAdI has been replaced with the new BAdI FAA_DOCLINES_CUSTOMER; the system no longer calls existing implementations of the BAdI BADI_FIAA_DOCLINES. If therefore you have used BAdI BADI_FIAA_DOCLINES until now, you must implement the interface of the new BAdI FAA_DOCLINES_CUSTOMER instead.

### 10.2.24 Fiscal Year Change/Balance Carryforward

The balance carryforward of Asset Accounting is integrated with the balance carryforward of Financial Accounting with the universal journal entry:

- With the balance carryforward of Financial Accounting, values carried forward are written on both account and ledger level for each asset.
• The new year is opened in Asset Accounting only when all representative ledgers of a company code have been carried forward.
• In order to determine the planned depreciation values for the depreciation run, the system automatically triggers a recalculation of values for all fixed assets in the new year.
• If errors occurred, you should start the recalculation again manually.

The program Fixed Assets-Fiscal Year Change (RAJAWE00, transaction AJRW) is no longer necessary and no longer has to be performed at fiscal year change.

10.2.25 Year-End Closing

As of release SAP S/4HANA 1909, year-end closing is executed and reset using transaction FAA_CMP. The following applies for a ledger:

• You can close a fiscal year for accounting for a ledger or a depreciation area.
• You can also reopen the fiscal year last closed for one or more depreciation areas.

Despite these adjustments, program RAJABS00 (transaction AJAB) is still available in the SAP Easy Access menu (only until release SAP S/4HANA 1909).

In addition, as of SAP S/4HANA 2020, the program Year-End Closing Asset Accounting (Cross-Company Code and Ledger) (program FAA_CLOSE_FISCAL_YEARS, transaction FAA_CLOSE_FISC_YEARS) is available. You use this program to close a fiscal year from an accounting perspective for one or more company codes or ledgers.

10.2.26 Reports for Posted Depreciation

Reports for posted depreciation that are based on table ANLP (especially report Posted Depreciation, Cost Center-Related, transaction S_ALR_87010175, InfoSet /SAQPQUERY/AM27) can no longer work on the basis of the account assignment objects of the fixed asset they are based on.

Exception: The accumulated depreciation accounts are managed as a statistical cost element. (See also SAP Note 2297425.)

Whilst there is no new fixed asset-specific report, you can display the Fiori app G/L Account Line Items with the corresponding filter criteria instead. The expense items are from now on updated with the information of the source fixed asset.

10.2.27 Segment Reporting

For segment reporting, the business function FI-AA, Segment Reports on Fixed Assets (FIN_AA_SEGMENT_REPORTING) is available as of SAP S/4HANA 1610,
FPS01. This business function is always on. In contrast to the business function FI-GL (New), Profit Ctr Reorganization and Segment Reports (FIN_GL_REORG_1) only available for ECC (as of SAP enhancement package 5 for SAP ERP 6.0), the new FIN_AA_SEGMENT_REPORTING business function supports automatic transfer postings in case of asset master data changes. (See also SAP Note 2257555.)

10.2.28 Legacy Data Transfer

The legacy data transfer had to be adjusted in Asset Accounting due to the introduction of the universal journal entry.

Manual Legacy Data Transfer

The manual legacy data transfer is now divided into the following steps:

1. You create asset master records for the legacy data transfer using transaction AS91.
2. You post the transfer values using transaction ABLDT; In doing so, a universal journal entry is posted for the fixed asset.
3. With transaction AB01, you post, for a legacy data transfer during the year, the transactions that occurred in the fiscal year of the legacy data transfer between the start of the fiscal year and the date of the legacy data transfer.
4. You use transaction ABLDT_OI to post the open items for an asset under construction with line item processing.

The following functions are also available with the manual legacy data transfer:

- If wrong transfer values were posted, you must reverse the journal entry and then recreate it.
- You can use transaction AS92 to change master data; transaction AS93 to display master data; and transaction AS94 to create subnumbers for the asset master record.
- There are corresponding transactions for group assets with the legacy data transfer (transactions AS81 to AS84).

You can find the changed Customizing activities and functions for the legacy data transfer in Customizing for Asset Accounting under Asset Data Transfer.

Automatic Legacy Data Transfer

In addition to the manual transfer, the following automatic (mass-compatible) transfer methods are available:
• Legacy data transfer using Microsoft Excel (transaction AS100)
  Transaction AS100 is still available; it has been completely adapted to the logic of the
  universal journal entry.
• Legacy data transfer using the Legacy System Migration Workbench (transaction
  LSMW)
  With the legacy data transfer using transaction LSMW, you can only transfer
  legacy assets using the business object method. The options Batch Input and
  Direct Input are no longer available.
• Legacy data transfer using BAPI
  With this you create a customer-defined program that calls module
  BAPI_FIXEDASSET_OVRTAKE_CREATE.
  This corresponds with choosing method CREATEINCLVALUES of business
  object BUS1022 in transaction LSMW.
• Transfer of mid-year transactions
  You cannot only transfer mid-year transactions when creating legacy assets; You
  can also post them subsequently using the standard BAPI for Asset Accounting.
  All standard functions of the relevant posting BAPI are available with this. The
  system posts these transactions automatically against the migration clearing
  account.

Due to extensive changes in the data store of Asset Accounting, the following mass-
compatible transfer methods are no longer supported:

• Program RAALTD01
• Program RAALTD11
• Program RAALTD11_UNICODE
• Any type of batch input on the transactions AS91, AS92, AT91, AT92, AS81,
  AS82, AT81 and AT82 only allows the creation and change of master data.
  Values cannot be transferred this way. You must rather use transaction ABLDT;
  however, this is not mass-compatible. The AT** transactions were also deleted;
  the above also and explicitly refers to customer-defined replacement transactions
  created analog.

10.2.29 Archiving

The reload program for archiving RAARCH03 is no longer supported.

Archived documents of Asset Accounting can only be written but not reloaded.

10.2.30 Constraints

The following constraints apply:

• As of release SAP S/4HANA 1610, user-defined currencies are available in
  General Ledger Accounting (FI-GL). These are not available in Asset
Accounting, but they are translated with the document life. The parallel local currencies used until now are translated in the meantime historically in the fixed assets, provided that depreciation areas are set up for parallel currencies. For more information on currencies in the universal journal, see SAP Note 2344012.

- The following are not supported in new Asset Accounting: The subsequent implementation of a ledger, the subsequent switch from the accounts approach to the ledger approach (scenario 7 and 8 in the migration scenarios for new General Ledger Accounting), and the implementation of a new depreciation area. The function subsequent implementation of a further accounting principle is available as of release SAP S/4HANA 1610, provided that you use the ledger approach. And as of release SAP S/4HANA 1809, you can use the functions available for the subsequent implementation of a depreciation area (program RAFAB_COPY_AREA and BAdI FAA_AA_COPY_AREA).
- Not all transaction data is deleted in Asset Accounting when you reset a company code (using transaction OABL). See also SAP Note 2419194.
- ALE transfer is not available in new Asset Accounting.
- The batch input method for transactions based on AB01 is no longer available; you can use the changed and new BAPIs for postings instead. Information about these BAPIs can be found above.
- The batch input technique for master data is no longer available. You can use a different transfer method instead for the legacy data transfer, for example the BAPI for master data or direct input.
- The integrated posting of investment support on assets using FI transactions is no longer supported. Instead, use transaction ABIFL, and post the customer transaction against a clearing account.
- Impairments from the business function New General Ledger Accounting 3 (FIN_GL_CI_3), SAP enhancement package 5 for SAP ERP 6.0 are no longer available.
- For Lease Accounting Engine (LAE) see SAP Note 2270391.
- For Joint Venture Accounting (JVA) see SAP Note 2270392.
- For specific business functions see SAP Note 2257555.

10.2.31 Existing Data and Conversion/Migration
10.2.32 Existing Data

Master Data

Existing master data is not changed by the activation of new Asset Accounting or the upgrade to SAP S/4HANA.

Customizing Data
However, you might possibly have to migrate and adjust your Customizing data. This depends on your source release, so the release you have before the migration to SAP S/4HANA. Existing Customizing settings from classic Asset Accounting or from new Asset Accounting are transferred; this means that to the extent you have already been working with classic or new Asset Accounting, you do not have to make all the Customizing settings again. You have to migrate, to some extent check, change and add to your Customizing data in these two cases: you are migrating from classic General Ledger Accounting with classic Asset Accounting, or from new General Ledger Accounting with classic or from new Asset Accounting.

**Transaction Data**

Transaction data is migrated from the existing subledger data store of Asset Accounting to the universal journal entry. The data however remains in the original database tables and can be read using the compatibility view in the previous format, for example in customer-defined programs (for the compatibility views, cf. SAP Note 2270387). The tables of the existing subledger entry are no longer required for further processing and can be unloaded from the database if necessary. All the required information is now in the new database tables.

Note the following also:

- The migration must take place at a time when only one fiscal year is open in Asset Accounting. Once migration is completed, you are not allowed to open any fiscal year again that occurred before the migration in Asset Accounting.
- You cannot reverse documents that were created before the conversion from classic to new Asset Accounting. Instead, you have to make an inverse posting.
- It is not possible to reverse integrated asset postings that were posted in new Asset Accounting in SAP enhancement package 7 for SAP ERP 6.0, SP02 or higher and were migrated. Instead, you have to make an inverse posting.
- The values for migrated asset line items (MIG_SOURCE = A) are migrated solely from BSEG relevant currencies. Subsequently added currencies which were not available before the migration are not created for migrated asset line items in the standard. This is especially the case for automatically created free defined currencies during the migration (for example if the CO currency was not available in G/L before migration it is automatically added as a free defined currency during migration). If currencies were subsequently added to migrated documents, then it is not possible to reverse migrated asset documents. Instead, you have to make an inverse posting.
- If until now you updated transactions in parallel valuations with different fiscal year variants and want to continue using this update, then you must implement a new representative ledger using the SAP General Ledger Migration Service before you install SAP S/4HANA. For more information about alternative fiscal year variants with parallel valuation, see SAP Note 2220152.
• It may no longer be possible to process worklists that have been created before the changeover to the new Asset Accounting. This involves worklists that create transaction data (however, not master data changes), such as worklists for retirement without revenue, retirement with revenue, intercompany asset transfer, and impairment posting. You should therefore either process these worklists before you activate the Customizing switch, or create them again once you have activated new Asset Accounting.

For more information, see SAP Note 2220152.

For more information about the conversion or migration to SAP S/4HANA, see the following:

<table>
<thead>
<tr>
<th>Information Source</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conversion Guide for SAP S/4HANA</td>
<td>Conversion Overview: Getting Started, Preparing the Conversion, Realizing the Conversion</td>
</tr>
<tr>
<td>SAP Note 2332030</td>
<td>Specification for the Conversion/Migration in Accounting</td>
</tr>
<tr>
<td>Application Documentation of New Asset Accounting</td>
<td>Specification for the Migration in Asset Accounting: Recommended Time for the Migration, Prerequisites, Migration of Customizing with Many Examples, Among Others.</td>
</tr>
</tbody>
</table>

10.2.33 User Interface

**Implementation Guide**

New Asset Accounting uses its own IMG structure in the SAP Reference IMG:

This IMG structure contains some of the same activities as are in classic Asset Accounting, some changed activities, and some new activities; a few of the classic Asset Accounting activities are no longer contained in the IMG structure at all.

**SAP Easy Access Menu**

The SAP Easy Access Menu for new Asset Accounting remains largely the same as for classic Asset Accounting. You can continue to find it under **SAP Menu -> Accounting -> Financial Accounting -> Fixed Assets**.

However, there is rerouting to some new transactions and some transactions which have become superfluous are no longer available. (Compare the following explanations of the transactions.)

**Transactions**

Some of the classic Asset Accounting transactions have been replaced by corresponding new ones. So that you can make accounting-principle-specific postings, the input fields
Depreciation Area and Accounting Principle can be found on the screen for the new transactions. The name of the relevant new transaction ends in "L". Example: The previous transaction AB01 (Create Asset Transactions) is replaced by the new transaction AB01L.

The new transactions are: AB01L, ABAAL, ABAKL, ABAOL, ABAVL, ABAWL, ABGFL, ABGLL, ABIFL, ABMFL, ABNRL, ABNVL, ABNZL, ABSOL, ABSTL, ABUML, ABZEL, ABZOL, ABZPL, ABZUL.

If you enter the transaction familiar from classic Asset Accounting (that does not end in L), you are automatically transferred to the new transaction (that ends in L).

As of release SAP S/4HANA 1909, both transactions OAAR and OAAQ have been redirected to transaction FAA_CMP.

As of release SAP S/4HANA 2020, transaction AJAB (program RAJABS00) is redirected to transaction FAA_CLOSE_FISC_YEARS.

Transaction ABSO_OLD from classic Asset Accounting is no longer available in new Asset Accounting; you can use transaction AB01L instead. All SAP Notes that refer to transaction ABSO_OLD are automatically invalid in SAP S/4HANA.

The following transactions are no longer available:

- ABST, ABST2, ABSTL
- ABAWN
- ABUB
- AW01_AFAR
- ABF1 and ABF1L
- AJRW
- OASV
- AB02
- ASKB and ASKBN
- ABMW
- ABCO
- AUN1, AUN2, AUN3, AUN4, AUN5, AUN6, AUN7, AUN8, AUN9, AUN10, AUN11
- AR16, S_ALR_87101171 (deleted as of release SAP S/4HANA 2022)

Programs

The following programs are no longer available:

- RAALTD01, RAALTD11, RAALTD11_UNICODE
- RAPERB2000, RAPOST2000, RAPOST2010
• RAABST01, RAABST02, FAA_GL_RECON
• RAJAWEO0
• RAUMFE20
• RAAEND02 (deleted as of release SAP S/4HANA 2022)
• RARUECK1

Adjustment programs RACORR_0TW_COMPLETE,
RACORR_ADD_MISSING_T082AVIEWB, RACORR_ANEK_AWSYS,
RACORR_ANLA_AKTIV, RACORR_ANLA_ZUJHR,
RACORR_ANLC_ANLP_POSTED_VALUES,
RACORR_ANLC_DEL_ANLB_LGIAN, RACORR_ANLH_LANEP,
RACORR_ANLW, RACORR_ASSET_GROUP_IND, RACORR_DELETE_ANLBZA,
RACORR_DELETE_EMPTY_TABW_ENTRY, RACORR_EUROGSBER,
RACORR_LINE_ITEMS_CHECK, RACORR_MIGRATION_NEWGL_LDGRP,
RACORR_MISSING_ANEP_REVERSALS, RACORR_NEW_GRP_ASSET_ASSIGN,
RACORR_PERFY_REPAIR, RACORR_T082AVIEW1, RACORR_T093_VZANSW,
RACORR_TABA_ENTRY_CREATE, RACORR_VIEW0_SET, RACORR_XNEGAS,
RACORR_XZORG, RACORR_XZORG_46A, RACORR07A, RACORR10_PERFY24,
RACORR100, RACORR100_WITOUT_AV, RACORR101, RACORR102,
RACORR103, RACORR104, RACORR105, RACORR106, RACORR107,
RACORR108, RACORR110_3ERRELEASES, RACORR110_B, RACORR111,
RACORR112, RACORR113, RACORR113_TCODE_FILL, RACORR114,
RACORR114_A, RACORR115, RACORR116, RACORR117, RACORR118,
RACORR119, RACORR120, RACORR121, RACORR122, RACORR125,
RACORR126, RACORR127, RACORR128A, RACORR129, RACORR130,
RACORR131, RACORR132, RACORR133, RACORR134, RACORR135,
RACORR137, RACORR138, RACORR139, RACORR14_OLD, RACORR140,
RACORR141, RACORR142, RACORR143, RACORR144, RACORR145,
RACORR146, RACORR147, RACORR148, RACORR149, RACORR150,
RACORR151, RACORR151_CREATE_ANLC, RACORR152, RACORR16,
RACORR17, RACORR18, RACORR20_A, RACORR21, RACORR23_NEW,
RACORR24, RACORR45A, RACORR46, RACORR47, RACORR48, RACORR49,
RACORR50, RACORR51, RACORR52, RACORR53, RACORR54, RACORR55,
RACORR56, RACORR57, RACORR58, RACORR59, RACORR60, RACORR61,
RACORR62, RACORR63, RACORR64, RACORR65, RACORR66, RACORR68,
RACORR69, RACORR75, RACORR76, RACORR77, RACORR78, RACORR79,
RACORR7A, RACORR7B, RACORR80, RACORR81, RACORR82, RACORR83,
RACORR83_A, RACORR84, RACORR85, RACORR86, RACORR87, RACORR87A,
RACORR88, RACORR89, RACORR89B, RACORR90, RACORR91, RACORR92,
RACORR93, RACORR94, RACORR96_SINGLE_ASSETS, RACORR97, RACORR98,
RACORR99, RAFABDELETE

**Authorization Objects**

The following authorization object is **no** longer available:
• A_M_ANLKL (deleted as of release SAP S/4HANA 2022)

Other Terms

SAP S/4HANA; Asset Accounting; parallel valuation; parallel accounting; ledger approach; accounts approach; ACDOCA; post-capitalization; revaluation; retirement; partial retirement; depreciation; AFAR; AFAB; smoothing method; posting BAPI; fiscal year change, balance carryforward; Legacy data transfer; legacy asset; RAARCH03; scenario 7; scenario 8; ALE transfer; batch input; worklist; impairment; conversion; migration; deleted programs; deleted transactions

10.3 S4TWL - INTEGRATION TO LEASE ACCOUNTING ENGINE (LAE)

Application Components: CRM-LAM, FI-LA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270391</td>
<td>S4TWL - Integration to Lease Accounting Engine (LAE)</td>
</tr>
<tr>
<td>Release Restriction</td>
<td>2211665</td>
<td>Release information for &quot;SAP for Banking” in connection with &quot;SAP S/4HANA, on-premise edition 1511”</td>
</tr>
<tr>
<td>Release Restriction</td>
<td>2328754</td>
<td>Release information for &quot;SAP for Banking” in connection with &quot;SAP S/4HANA 1610&quot; (&quot;SAP S/4HANA, on-premise edition 1610&quot;)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

If you have one at least one entry in table TFILA_FA_002 this note is relevant for you!

The LAE (Lease Accounting Engine) does not support the new Asset Accounting which is automatically activated in S4H.
For more information, see SAP Help portal at http://help.sap.com/sfin200 -> Application Help: SAP ERP Central Component -> Accounting ->

SAP Simple Finance, on-premise edition -> Migration to SAP Accounting powered by SAP HANA -> Migration to New Asset Accounting

10.4  S4TWL - Asset management transfers in Joint Venture Accounting (JVA)

Application Components: FI-AA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270392</td>
<td>S4TWL - Joint Venture Accounting (JVA)</td>
</tr>
</tbody>
</table>

Symptom

You are converting your system to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Prerequisites:

Joint Venture Accounting is active and at least one of the transactions listed below are used. This means that

- Component 'JVA' is active in table TRWCA: See transaction SM30 for table TRWCA and check that the record for COMP = JVA has a "To year" greater or equal to the current year.
- For at least one company code the global JVA parameters have been maintained: A record has been created on view V_T8JZA with transaction GJZA.
- You are using the AM/MM Method 8 ("United States (COPAS)") or a different one, for which records have been defined on table T8JHL.

Solution

Description
With SAP S/4HANA, on-premise edition 1511 (or SAP S/4HANA Finance Edition 1503 SP52, or higher releases of this add-on), Asset Management transfers in Joint Venture Accounting are no longer supported. This comprises the following transactions:

- GJT1 - Asset to WiP
- GJT2 - Asset to asset
- GJT3 - Asset retirement
- GJT4 - Asset sale
- GJT5 - WIP to WIP
- GJT6 - WIP to Asset
- GJT0 - Reverse.

For more information (for example, on business processes and recommended workarounds), please refer to SAP Note 2137314 - Joint Venture Accounting with SAP Simple Finance powered by SAP HANA and the attachment in that Note.

### 10.5 S4TWL - SELECTED BUSINESS FUNCTIONS IN FINANCIAL ACCOUNTING (FI-GL AND FI-AA)

**Application Components:** FI-AA

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2257555</td>
<td>S4TWL - Asset Accounting: Business Functions from FI-AA and FI-GL</td>
</tr>
</tbody>
</table>

**Symptom**

You will be using new Asset Accounting in SAP S/4HANA.

You would like to know which business functions relevant for Asset Accounting from the SAP enhancement packages for SAP ERP 6.0 are available in SAP S/4HANA.

**Solution**

**10.5.1 Business Functions of Asset Accounting**

The following business functions exist for Asset Accounting:
In SAP S/4HANA, only new Asset Accounting is available.

The corresponding functions are available there without them being linked to the business function.

The following business functions FIN-AA_CI_1 and FIN-AA_PARALLEL_VAL are therefore obsolete in SAP S/4HANA.

- If you have **not** activated the respective business function before the switch to SAP S/4HANA (in your source release), you do **not** need to activate the business function there (in order to be able to use the corresponding functions).
- If you have activated one or both of the above-mentioned business functions before the switch to SAP S/4HANA (in your source release), the actual activation status in SAP S/4HANA remains as "on".

For information about the business function **FI-AA, Segment Reports on Fixed Assets** (FIN-AA_SEGMENT_REPORTING), see the following section 'Business Functions of General Ledger Accounting'.

### 10.5.2 Business Functions of General Ledger Accounting

For Asset Accounting, the following business functions from General Ledger Accounting are relevant:

<table>
<thead>
<tr>
<th>Description</th>
<th>Technical Name</th>
<th>Release</th>
<th>Status in SAP S/4HANA On Premise</th>
<th>Usability in SAP S/4HANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>FI-GL (New), Profit Ctr Reorganization and Segment Reports</td>
<td>FIN_GL_REORG_1</td>
<td>SAP enhancement package 5 for SAP ERP 6.0</td>
<td>Customer switchable</td>
<td>Not supported</td>
</tr>
</tbody>
</table>
The functions from both these business functions are not available in SAP S/4HANA.

- If you have not activated either of these two business functions before the switch to SAP S/4HANA (in your source release), you cannot activate either of the two business functions in SAP S/4HANA.
  
  If you want to subsequently activate segment reporting for fixed assets in SAP S/4HANA, then you need to use the business function FI-AA, Segment Reports on Fixed Assets (FIN_AA_SEGMENT_REPORTING); this was separated from the business function FIN_GL_REORG_1 and is available separately as of SAP S/4HANA 1610, FPS01 and SAP S/4HANA 1709 (see also SAP Note 2375643).

- As of SAP S/4HANA 1511, FPS02, the following applies: If you have activated one or both business functions before the switch to SAP S/4HANA (in your source release), you can switch to SAP S/4HANA but you cannot use the functions of the business functions in SAP S/4HANA.
  
  The exception to this is segment reporting for fixed assets; this is still available in SAP S/4HANA.

### 10.5.3 Other Business Functions

<table>
<thead>
<tr>
<th>Description</th>
<th>Technical Name</th>
<th>Release</th>
<th>Status in SAP S/4HANA On Premise</th>
<th>Usability in SAP S/4HANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO, Parallel Valuation of Costs of Goods Manufactured</td>
<td>FIN_CO_COGM</td>
<td>AP enhancement package 5 ff. for SAP ERP 6.0</td>
<td>Customer switchable</td>
<td>Supported (see details below)</td>
</tr>
<tr>
<td>Materials Management - Enhancements in Procurement</td>
<td>LOG_MM_CI_3</td>
<td>SAP enhancement package 5 for SAP ERP 6.0</td>
<td>Customer switchable</td>
<td>Supported</td>
</tr>
</tbody>
</table>

New Asset Accounting relates as follows to the business functions listed:

- **CO, Parallel Valuation of Cost of Goods Manufactured (FIN_CO_COGM),** SAP enhancement package 5 ff. for SAP ERP 6.0
  
  If this business function is active, you can also use different valuation for investment measures according to different accounting principles. These valuation approaches are activated for each depreciation area when you settle investment measures for assets under construction (AUC) and for the full settlement to completed assets, depending on the accounting principle. Differing capitalization percentage rates from the Customizing activity for calculating the capitalization value of investment measures (transaction OKGK) are taken into account.
For information about the availability of the business function in SAP S/4HANA, see SAP Notes 2270414 and 1852519.

- **Materials Management - Enhancements in Procurement** (LOG_MM_CI_3), SAP enhancement package 5 for SAP ERP 6.0
  If you use purchase orders for low-value assets (LVA) in Asset Accounting, then in the future it is not possible to note purchase orders if the LVA maximum amount is exceeded. If you want to use the function for noting purchase orders, we recommend that you activate the business function Materials Management - Enhancements in Procurement (LOG_MM_CI_3).

**Other Terms**

SAP S/4HANA; Asset Accounting; FIN_AA_CI_1; FIN_AA_PARALLEL_VAL; FIN_AA_SEGMENT_REPORTING; FIN_GL_REORG_1; FIN_GL_REORG_SEG; FIN_CO_COGM; LOG_MM_CI_3

### 10.6 S4TWL - Check for duplicate internal asset line items (FAAT_DOC_IT)

Application Components: FI-AA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2977180</td>
<td>S4TWL - Checking for duplicate records in the asset line item table (FAAT_DOC_IT)</td>
</tr>
</tbody>
</table>

**Symptom**

Previously, a program error caused duplicate records to be updated in the asset line item table. However, this error does not affect reported asset values in this release or in a previous release. Nevertheless, due to an incompatible change in SAP NetWeaver, the presence of these records during an upgrade now causes a technical termination that stops the upgrade process as such. The Software Update Manager (SUM) can be used to identify and resolve this situation before the upgrade to SAP S/4HANA 1909, 2020, and so on.

**Reason and Prerequisites**

Program error
Solution

For technical details about the cause of the error and how to resolve it, see SAP Note 2948964.

Other Terms

FAAT_DOC_IT, CLS4SIC_FI_AA, FAA_DELETE_DUPLICATE_DOC_IT, SI6_FIN_AA

10.7 S4TWL - Group Assets

Application Components: FI-AA, CA-JVA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3014869</td>
<td>S4TWL - Group Assets</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

The functionality group assets in Asset Accounting is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, group assets can be found under the ID 428.

SAP does not plan to provide an alternative for group assets in Asset Accounting. If you wish to group your assets also in future we recommend building your own solution by introducing respective user fields in asset master or make use of the existing feature “Asset Super Number” to group asset if it is not yet used for any other purpose.

Business Process related information
A description of the functionality in compatibility scope you find in the SAP S/4HANA Feature Scope Description in section FI-AA: Group Assets.

**Required and Recommended Action(s)**

Until the expiry date of the compatibility pack license, you can still use group asset functionality. However, we recommend defining your future strategy early in advance of this date because group asset functionality must not be used after this point in time.

**Other Terms**

SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Joint Venture Accounting, ID 428

**11. Financials - Cash Management**

**11.1 S4TWL - Electronic Payment Integration for China**

Application Components: FI-LOC-EPI-CN

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3087756</td>
<td>Deprecation of Cash Operations for China (COPC) and EPIC Embedded Cash Budgeting</td>
</tr>
</tbody>
</table>

**Symptom**

You would like to use **Cash Operations for China** (also known as COPC) to manage your cash pools and cash concentration, or you would like to use EPIC embedded Cash Budgeting functions. However, this is not recommended since the solution of COPC is out of development and will be deprecated in SAP S/4HANA 2023.

**Reason and Prerequisites**

The functions provided by Cash Operations for China have been replaced by the solution **Cash and Liquidity Management** under component FIN-FSCM-CLM.

The functions provided by EPIC embedded Cash Budgeting have been replaced by **Cash Budgeting** in SAP S/4HANA Finance for cash management, version for China.

**Solution**

---

Page | 290
In order to leverage the latest product features and maintenance delivered by SAP, please make sure you use **Cash and Liquidity Management** for your treasury management requirements. If you would like to use Fiori-based apps, you are recommended to use SAP S/4HANA 1809 or above.

Please be reminded of the risks of using COPC:

1. Feature and/or processing logic explanation, suggestions about system operation and/or configuration, and how-to requests are not supported via customer incidents. You can find further details in SAP note 83020.
2. COPC folder under "SAP Menu -> Accounting -> Financial Accounting -> Banks -> Country Specifics -> China -> Cash Operations" will be officially removed and use of T-codes will not be authorized after one release.

**Other Terms**

EPIC, COPC, Cash Concentration, Cash Pool, EPIC embedded Cash Budgeting

**11.2 S4TWL - CASH MANAGEMENT - GENERAL**

Application Components: FIN-FSCM-CLM

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270400</td>
<td>S4TWL - Cash Management - General</td>
</tr>
</tbody>
</table>

**Symptom**

You are working on a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable to this case.

**Reason and Prerequisites**

System Conversion to SAP S/4HANA.

**Solution**

**Description**

Once customers have installed SAP S/4HANA, SAP S/4HANA Finance for cash management is the only compatible cash management product to be used. The classic
Cash and Liquidity Management (Cash Management and Liquidity Planner) is not available in SAP S/4HANA.

For customers who want to move from the classic Cash and Liquidity Management to SAP S/4HANA Finance for cash management, they need to carry out the following activities:

1. Convert their system to SAP S/4HANA or set up a new SAP S/4HANA system.
2. Activate and then implement SAP S/4HANA Finance for cash management.

The conversion to SAP S/4HANA is supported by data migration tools, which also consider cash management data. The implementation of Bank Account Management (included in SAP S/4HANA Finance for cash management) is an essential part of the SAP S/4HANA implementation/conversion project.

Business Value

The new SAP S/4HANA Finance for cash management provides cash managers with novel user experiences, flexibility and new processes:

1. End-to-end process of monitoring bank statement imports, checking cash position, and transferring fund to handle surplus and deficit.
3. Centralized bank account management, with which business users can manage bank accounts as master data with more business attributes.

Comparison of Functional Scope

The following table summarizes the differences between the classic Cash and Liquidity Management (Cash Management and Liquidity Planner) and SAP Cash Management.

<table>
<thead>
<tr>
<th>Classic Cash and Liquidity Management</th>
<th>SAP Cash Management, delivered with SAP S/4HANA 1511</th>
<th>SAP S/4HANA Finance for cash management, delivered with SAP S/4HANA 1610 (Delta to 1511)</th>
<th>SAP S/4HANA Finance for cash management, delivered with SAP S/4HANA 1809 (Delta to 1709)</th>
<th>SAP S/4HANA Finance for cash management, delivered with SAP S/4HANA 1909 (Delta to 1809)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Cash Position / Liquidity Forecast</th>
<th>Cash Position: FF7A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquidity Forecast: FF7B</td>
<td></td>
</tr>
<tr>
<td>Data Integration:</td>
<td></td>
</tr>
<tr>
<td>• Bank statement accounting</td>
<td></td>
</tr>
<tr>
<td>documents</td>
<td></td>
</tr>
<tr>
<td>• Payment accounting documents</td>
<td></td>
</tr>
<tr>
<td>• AR/AP accounting documents</td>
<td></td>
</tr>
<tr>
<td>• Memo records</td>
<td></td>
</tr>
<tr>
<td>• Purchase orders</td>
<td></td>
</tr>
<tr>
<td>• Sales orders</td>
<td></td>
</tr>
<tr>
<td>• TRM</td>
<td></td>
</tr>
<tr>
<td>• CML</td>
<td></td>
</tr>
<tr>
<td>• FI-CA</td>
<td></td>
</tr>
<tr>
<td>• Real-Estate</td>
<td></td>
</tr>
<tr>
<td>• Public Sector</td>
<td></td>
</tr>
<tr>
<td>Liquiditiy Forecast:</td>
<td></td>
</tr>
<tr>
<td>Cash Position:</td>
<td>Use app Cash Position to check high-level KPIs.</td>
</tr>
<tr>
<td></td>
<td>Use app Cash Position Details to display detailed positions on bank accounts.</td>
</tr>
<tr>
<td>Liquidity Forecast:</td>
<td></td>
</tr>
<tr>
<td>Data Integration:</td>
<td></td>
</tr>
<tr>
<td>• MM (Materials Management)</td>
<td></td>
</tr>
<tr>
<td>• SD (Sales and Distribution)</td>
<td></td>
</tr>
<tr>
<td>1709 (Delta to 1610)</td>
<td></td>
</tr>
<tr>
<td>Cash Position and Liquidity Forecast:</td>
<td>With the app &quot;Cash Flow Analyzer&quot;, you can obtain an overview of the aggregate amounts and line item details of short-term cash position, medium- and long-term liquidity forecast, and actual cash flows. You can analyze cash flows over days, weeks, months, quarters, or years. You can get an end-of-period report with shifts to working days. You can also display an Bank Account Group Hierarchy view and Liquidity Item Hierarchy view. This is a successor app for &quot;Cash Flow Analyzer&quot;.</td>
</tr>
<tr>
<td>Data Integration:</td>
<td></td>
</tr>
<tr>
<td>• Prom-ise-to-pay</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memo Record</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Not integrated: Industry-specific data sources, sales orders, purchase orders, fund, grant, payment orders, payment requests</td>
<td>Position Details&quot;, as well as combining the key features from &quot;Liquidity Forecast Details&quot; and &quot;Cash Flow Detail Analysis&quot;. Data Integration:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Prom ise-to-pay</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Memo Record</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• Create memo records: FF63</td>
<td>You can now use the following Fiori apps in your Fiori launchpad:</td>
<td>Memo record is physically stored in One Exposure. New Fiori app &quot;Manage Memo Records&quot; available for normal maintenance. FF63/FF65 are not deprecated yet.</td>
</tr>
<tr>
<td>• Display memo records List: FF65</td>
<td>• Actual Cash Flow</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Cash Flow - Detailed Analysis</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Payment (F110, F111)</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>• F110</td>
<td>F110 and F111 are supported as before.</td>
<td></td>
</tr>
<tr>
<td>• F111</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Liquidity Planner</th>
<th>Plan part:</th>
<th>Plan part:</th>
<th>Actual part:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• BPC or BW-IP set up in a separate system.</td>
<td>• Embedded Liquidity Plan with BPC/PAK (Planning Application Kit) and SAP BusinessO</td>
<td>You can now use the following Fiori Theme apps in your Fiori launchpad:</td>
<td></td>
</tr>
<tr>
<td>• ETL for master data and transaction</td>
<td></td>
<td>• Actual Cash Flow</td>
<td></td>
</tr>
</tbody>
</table>
Al data is necessary.

**Actual part:**
- Actual Cash Flow Report:FL QREP

**Configuration:**
- Account assignment through Query and Query Sequence

<table>
<thead>
<tr>
<th>Actual part:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>- No ETL is needed.</td>
<td></td>
</tr>
<tr>
<td>- Automated liquidity forecast is integrated.</td>
<td></td>
</tr>
<tr>
<td>- The functionality of hedge planning/report and currency conversion among different planning units are not supported.</td>
<td></td>
</tr>
</tbody>
</table>

**Actual part:**
- Old transaction is not available.
- You can use SAP BusinessObjects Analysis, edition for Microsoft Office (AO) or transaction code RSRT to show the integrated actual cash flow information.

**Configuration:**
- Cash Flow - Detailed Analysis
### Simplification List for SAP S/4HANA


<table>
<thead>
<tr>
<th>Cash Concentration</th>
<th>• Account assignment through Query and Query Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Create: FF73</td>
<td>- Cash Concentration can work based on the new Bank Account Management (BAM) accounts in the Fiori app Manage Bank Accounts.</td>
</tr>
<tr>
<td>• Access with Variant: FF74</td>
<td>- Cash pools can be defined by creating bank account groups in BAM applications directly.</td>
</tr>
<tr>
<td>• Print Confirmations: FF.8</td>
<td>- The cash pooling process is managed by the apps &quot;Manage Cash Pools&quot; - to maintain cash pool master data, &quot;Manage Bank Accounts&quot; - to assign/unassign bank accounts to cash pool(s) and &quot;Manage Cash Concentration&quot; - to trigger the simulation and create payment requests of cash concentration.</td>
</tr>
<tr>
<td>• Post: FF.9</td>
<td>- A new web service is provided to capture external cash flows.</td>
</tr>
</tbody>
</table>

### Distributed Cash

- Load remote Cash Position and Liquidity Forecast data through IDOC.
- Retrieve remote Liquidity Planner actual data and cash summary data of classic cash into the One Exposure of S/4 HANA Cash Management.

### BW Extractor

- The extractor 0TR_CM_1 is for ECC only and it reads data from classic cash tables. Those classic cash tables does NOT
have business data in SAP S/4HANA.

### Business Process Related Information

| Transactions not available in SAP S/4HANA | FF$3 | FF$L | FF$X | FF-3 | FF-4 | FF-5 | FF-6 | FF/1 | FF/2 | FF.3 | FF/8 | FF69 | FF70 | FF71 | FF72 | FF7A | FF7B | FF:1 | FFTL | FFZK | FLQAB |
|-------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
Another known limitation is that, if the bank name is saved in Japanese with half-width kana, no results can be found, when you use these half-width kana for keyword search.

**Note:**

Depending on your license, you can use a basic scope of Cash and Liquidity Management or a full scope of this solution capability. For information about the scope differences between the two capabilities, see the help document.

**Required and Recommended Actions**


**How to Determine Relevancy**

Please refer to the *Relevance Check* section of the simplification item.
If classic Cash Management and Liquidity Planner are used (e.g. for cash position reporting), you need to re-implement the new SAP S/4HANA Finance for cash management.

Other Terms

SAP S/4HANA Transition Worklist

11.3 S4TWL - CASH MANAGEMENT - Bank Accounts

Application Components: FIN-FSCM-CLM-BAM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2870766</td>
<td>S4TWL - Cash Management - BAM</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA and you are going to use BAM (Bank Account Management). The following SAP S/4HANA Transition Worklist for BAM is applicable in this case.

Solution

Description

Once customers have installed SAP S/4HANA, SAP S/4HANA Finance for cash management is the only compatible cash management product to be used. The classic Cash and Liquidity Management (Cash Management and Liquidity Planner) is not officially available in SAP S/4HANA. An SAP Business Suite customer using classic Cash and Liquidity Management needs to activate the new SAP S/4HANA Finance for cash management after converting to SAP S/4HANA.

As part of cash management, BAM (Bank Account Management) offers customers the capability in maintaining banks and bank accounts, among other relevant features.

Business Value

With BAM, customers are able to:

1. Manage their banks and bank accounts (including house banks and house bank accounts)
2. Manage their bank account groups and bank hierarchies

3. Control bank account maintenance process via dual control mode or workflow mode

4. Analyze their bank fee data

Comparison of Functional Scope

The following table summarizes the differences in bank account management between the classic Cash and Liquidity Management and SAP S/4HANA Finance for cash management.

<table>
<thead>
<tr>
<th>Banks / Bank Accounts</th>
<th>Classic Cash and Liquidity Management</th>
<th>SAP Cash Management, delivered with SAP S/4HANA 1511</th>
<th>SAP S/4HANA Finance for cash management, delivered with SAP S/4HANA 1610 (Delta to 1511)</th>
<th>SAP S/4HANA Finance for cash management, delivered with SAP S/4HANA 1709 (Delta to 1610)</th>
<th>SAP S/4HANA Finance for cash management, delivered with SAP S/4HANA 1809 (Delta to 1709)</th>
</tr>
</thead>
</table>
| • Create Bank: FI01   | • Create Bank: FI01                   | Centralized bank account management is supported.    | With this release, the following features have changed for the app "Manage Bank Accounts": | Bank accounts can be replicated via IDoc to other systems on Simple Finance 1503, S/4HANA Finance 1605+, S/4HANA OP 1610+, SAP ERP 6.0 EhP6+. | Bank Account Management (BAM):
| • Change Bank: FI02   | • Change Bank: FI02                   |                                                    | • You can now choose to implement a dual control process for bank account management. |                                                    | • You can now choose to implement a dual control process for bank account management. |
| • Display Bank: FI03  | • Display Bank: FI03                 |                                                    | Revisions are then saved whenever you or any other users create, modify, copy, |                                                    | Revisions are then saved whenever you or any other users create, modify, copy, |
| • House Bank / House Bank Account: FI12 | • House Bank / House Bank Account: FI12 |                                                    | or delete bank accounts.                                                      |                                                    | or delete bank accounts.                                                      |
| • Business Partner (Role TR0703): BP | • Business Partner (Role TR0703): BP |                                                    | Bank hierarchy is based on bank business partners.                            |                                                    | Bank hierarchy is based on bank business partners.                            |
| Bank Account Management (BAM) | Bank Account Management (BAM) |                                                    | Free-style bank account groups allow ad-hoc watch for |                                                    | Free-style bank account groups allow ad-hoc watch for |
|                           |                                       |                                                    | changes.                                                                      |                                                    | changes.                                                                      |

The following transaction codes are replaced by the new Fiori app Manage Banks, which can be accessed from the Fiori Launchpad.

Fiori app Manage Banks:

• Create Bank: FI01
• Change Bank: FI02
• Display Bank: FI03

The use of the FI12 transaction for bank accounts varies depending on the bank account activation.
several bank accounts.
- Fuzzy search for bank accounts
- Attachments
- The transaction FI12 House Bank / House Bank Account is not available. Instead, you use the following apps via the Fiori Launchpad to manage house banks and house bank accounts:
  - Define house banks: Use the Fiori app *Manage Banks*
  - Define house bank accounts: You can do so in the Fiori app *Manage Bank Accounts* by editing the bank account master data, on the *Connectiv*

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

reopen, or close a bank account. You can use the revisions to:
- Ask another authorized user to activate your revision to generate a new active bank account version.
- Compare revisions to identify differences.

setting in your system:
- If the "Activate Directly" setting is set in your system for the bank account activation mode, you can use the FI12 transaction to manage bank accounts.
- If you have implemented workflow or dual control processes in your system, you can define bank accounts in the *Manage Bank Accounts*

<table>
<thead>
<tr>
<th>Path tab.</th>
</tr>
</thead>
<tbody>
<tr>
<td>• House bank and house bank accounts are longer configuration data, instead they are maintained as master data.</td>
</tr>
<tr>
<td>Database table T012K is redirected to the new BAM tables.</td>
</tr>
<tr>
<td><strong>Bank Account Management Lite (BAM Lite)</strong>:</td>
</tr>
<tr>
<td>• Attributes include account holder, internal contact persons, and house bank account related settings on bank accounts.</td>
</tr>
<tr>
<td>• No workflow-based bank account processes.</td>
</tr>
<tr>
<td>• The transaction FI12 House Bank / House Bank Account is not available. Instead, you bet we en different bank account versions.</td>
</tr>
<tr>
<td>• View bank account history to track account changes.</td>
</tr>
<tr>
<td><strong>Fiori app or use the NWBC transaction to open an HTML application.</strong></td>
</tr>
<tr>
<td><strong>Bank Account Management Lite (BAM Lite)</strong>:</td>
</tr>
<tr>
<td>• The transaction FI12 has been reactivated. You can now use this transaction to manage house banks, house bank accounts, and bank accounts.</td>
</tr>
<tr>
<td><strong>This process ensures the 4-eye principle but is easier to implement than the business workflow approach.</strong></td>
</tr>
<tr>
<td>• Settings for bank statements have been added to bank account master data.</td>
</tr>
</tbody>
</table>
| • A new field for financial object
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>use the following apps via the Fiori Launchpad to manage house banks and house bank accounts:</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Define house banks: Use the Fiori app Manage Banks</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o Define house bank accounts: You can do so in the Fiori app Manage Bank Accounts by editing the bank account master data, on the Connectivity Path tab.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>o House bank and house bank accounts are longer configured numbers has been added and allows for integration with Treasury and Risk Management. The system automatically generates a financial object number for each bank account.</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>• A new field for transaction type is available for processing this account's electronic bank statements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>A new way to set up workflows using the Fiori app &quot;Manage Workflows - For Bank Accounts&quot;: With this release, the workflow functionality for bank account management is redesigned including a new workflow template, new apps for processing and tracking workflow requests, and a new app Manage</td>
<td></td>
</tr>
</tbody>
</table>
Simplification List for SAP S/4HANA 2023 – Initial Shipment and SAP S/4HANA Cloud,
private Edition 2023 – Initial Shipment

•

ration
data,
instead
they
are
maintai
ned as
master
data.
For information
on the
differences
between BAM
and BAM Lite,
see SAP note
2165520.

Workflows - For
Bank Accounts for
making workflow
configurations. With
this app, you can
do the following:
•

•

•

•

View the
predefined
workflow
for
maintaining
bank
accounts
Check
workflow
details,
such as
status,
validity
period, and
preconditio
ns for
starting the
workflow
Create new
workflows
by copying
existing
ones
You can
define
workflow
processes
for bank
account
manageme
nt
according
to your own
business
requiremen
ts by
defining
preconditio
ns, step
sequence,
and
recipients.
Activate
and
deactivate
workflows

Page | 304


• Define an order for activated workflows
  The system evaluates the order and the preconditions of each activated workflow to determine which workflow to trigger for different bank accounts and scenarios.
• Delete an existing workflow that is deactivated

*Bank Account Management Lite (BAM Lite): A basic version of Bank Account Management which is part of the basic cash management capability. It is provided for customers who do not have the license of SAP S/4HANA Finance for cash management. For more information about the scope differences between the basic cash management capability and SAP S/4HANA Finance for cash management, see the help document.

Required and Recommended Actions

• Prior to SAP S/4HANA 1809, the old transactions of maintaining house bank accounts are not available. Instead, you manage your house bank accounts in the new bank account master data, using either the basic cash management capability or the full scope of Bank Account Management (with SAP S/4HANA Finance for cash management). As a result, before you go live with SAP S/4HANA, you must migrate house bank accounts if there are any. For more information about the migration activity, in the Configuration Guide, select your software version and then search for "Migration of House Bank Accounts".
• All the apps must be accessed from the Fiori Launchpad.
• Customers who have been using the full scope of cash management and are converting to SAP S/4HANA 1610 from Simple Finance 1503, S/4HANA Finance 1605 and S/4HANA OP 1511, must configure the customizing
activity Define Basic Settings under "Financial Supply Chain Management"->"Cash and Liquidity Management"->"General Settings".

11.4 S4TWL - CASH MANAGEMENT - Memo Record

Application Components: FIN-FSCM-CLM-COP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2781585</td>
<td>Cash Management: Memo Records in SAP S/4HANA 1809</td>
</tr>
</tbody>
</table>

Symptom

Your system has been upgraded to SAP S/4HANA 1809, where the memo record functionality has changed in many aspects. You want to understand the changes and the impact.

Solution

Description

This note aims to provide you an overview about the changes and impacts on your existing data and configuration settings of memo records in S/4HANA 1809.

Business Value

In SAP S/4HANA 1809, a Fiori APP Manage Memo Records (Fiori ID: F2986) is available for memo records. With this app, you can create memo records centrally for expected cash flows that are not yet generated in the system. The memo records are then displayed in the cash management apps, such as Cash Flow Analyzer and Check Cash Flow Items. You can also use this app to view, change, and delete the intraday memo records that are generated automatically from imported intraday bank statements.

Data Storage Change

In S/4HANA 1809, memo records are no longer stored in table FDES. Instead, it is now stored in One Exposure from Operations (table FQM_FLOW).

To migrate memo records that are stored in the FDES table, proceed as follows:

1. Run transaction SE38.
2. Execute report FCLM_MIGR_FDES2FQM to migrate the existing memo records from table FDES to table FQM_FLOW.

**Number Range**

In S/4HANA 1809, all memo records are numbered by order, regardless the company code. Consequently, the number range setting on company codes is no longer relevant to memo records.

To enable the new number range mechanism:

1. Run transaction SNRO
2. Enter object FCLM_MRN
3. Enter number range 01

**Bank Account**

In the Fiori app *Manage Memo Records*, Cash Management Accounts are no longer required. This is because you can create memo records only for active bank accounts. And it would be reflected on cash reports accordingly.

The concept is kept as it is for transaction FF63 and FF65.

**Planning Level**

With Fiori app Manage Memo Records, Planning Types mapping with Planning Levels would not be mandatory any more.

Since planning levels are all supported with new memo records, in the classic cash report FF7AN/FF7BN, FI flows could not be differentiated from memo records through planning level any more, and drill-down to each memo record is not supported.

There’s no change for FF63 and FF65.

**Snapshot**

The snapshot feature, available with the Full Cash scope, would also be effective towards the memo record data in the Cash Flow Analyzer. For more information about the snapshot setting, see the Implementation Guide of the Customizing activity *Define Basic Settings*.

To enable Snapshot feature, go to IMG -> Financial Supply Chain Management -> Cash and Liquidity Management -> General Settings -> Define Basic Settings -> Enable Snapshot

**Expiration memo record from intraday bank statement**
S/4HANA 1809 introduces a new logic of expiration memo record from intraday bank statement: see note 2719289 for more details.

**Fields in table FDES that are no longer supported in S/4HANA 1809**

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Field Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSART</td>
<td>Planning Type</td>
</tr>
<tr>
<td>ZUONR</td>
<td>Assignment</td>
</tr>
<tr>
<td>REFER</td>
<td>Reference</td>
</tr>
<tr>
<td>VOART</td>
<td>Transaction Type</td>
</tr>
<tr>
<td>SDATM</td>
<td>Start Date</td>
</tr>
<tr>
<td>ZINSS</td>
<td>Interest Rate</td>
</tr>
<tr>
<td>KLART</td>
<td>Calendar Type</td>
</tr>
</tbody>
</table>

**Custom field extension**
The custom fields that were added by customers are not supported from S/4HANA 1809

**Required and Recommended Actions**

To use the new memo records, make sure the following settings are properly defined in your system.

1. You have **activated the source application One Exposure** (FI) for relevant company codes in the Activate Individual Source Applications or the Activate Multiple Source Applications Customizing activity. You can find these Customizing activities in Customizing under Financial Supply Chain Management > Cash and Liquidity Management > Cash Management > Data Setup > Activate Individual Source Applications.

2. You have defined a **planning level** for memo records in the Define Planning Levels Customizing activity. You can find this Customizing activity in Customizing under Financial Supply Chain Management Cash and Liquidity Management Cash Management Planning Levels and Planning Groups.

**Other Terms**

Memo Records, FDES, Planning Type, Memo Records Migration

### 11.5 S4TWL - Logic changes in Flow Builder

Application Components: FIN-FSCM-CLM

Related Notes:
Note Type | Note Number | Note Description
---|---|---
Business Impact | 3249131 | Simplification Item S4TWL - Flow Builder

**Symptom**

You execute a system conversion to S/4HANA, On-Premise-Edition 2022 or higher.

**Reason and Prerequisites**

You use at least one of the following Fiori apps:

- Short-Term Cash Positioning
- Cash Flow Analyzer
- Check Cash Flow Items
- Bank Account Balance
- Cash Position

**Solution**

**Business Value**

Flow Builder Plus is a module to generate cash flow items from Accounting (FI) and MM source applications.

Flow Builder Plus will provide these benefits comparing with old Flow Builder or we call it Flow Builder 1.0:

- Get liquidity analysis result immediately together with cash position or separately with time deferral
- Support more business scenarios
- Analyze liquidity analysis document chain with traceability
- Gain improvement on performance and solve out of memory issue
- Enable parallel runs for Flow Builder and embed the ‘Packaging’ concept
- Update less volume of cash flows by comparing with the existing flows especially enabling the Snapshot function
- Utilize flexible extensibility
- Simplify and less implementation efforts for upgrade
- Keep updated for continuous innovations on Flow Builder

**Description**

From OP2021 FPS1, Flow Builder Plus is an option for you to generate cash flow items for Accounting (FI) and MM source applications.
From OP2022, once your upgrade is finished, Flow Builder Plus is mandatory if you still need to populate cash flow items from cash and liquidity management.

**Business Process Related Information**

Cash flow analysis by liquidity item could be more accurate, for example, even if the actual outgoing payment is netted from Account Payable and Account Receivable, the liquidity item derivation can reveal as if it was not netted and retrieve the separated liquidity items for Account Payable and Account Receivable on corresponding split amounts.

**Required and Recommended Action(s)**

Before using Flow Builder Plus, we suggest you review your business requirements, because now there’s more flexibility and you can decide on which level you want to use it. For example, if you only need cash position information, you could do the configuration accordingly, therefore you could skip the whole set of liquidity analysis process to simplify the configuration as well as faster runtime response.

Please take notes below two new tables:

Table FQMC_ACT_FI introduced but only available to Advanced Cash user. And no default content shall be applied.

Table FCLM_FB2_CONFIG introduced without default content.

Learning the key configuration steps with our help document online and reading the mentioned notes below is primary, based on our experience, the preparation for testing is the most time-consuming part, but setting up the needed configurations is not that complicated. For example, if you understand your requirements, it just take hours to configure the system for upgrading customers, but it may take weeks to test and confirm the expected result.

Because we change the pairing logic in Flow Builder Plus, you have to confirm if your business department could accept the change in most cases. The result of derived liquidity items is the same for most cases, however, still could see different result due to new pairing algorithm in Flow Builder Plus, for example, in Flow Builder Plus we separate cashflow items for customer and vendor though they are the same business partner for your client, we will not net them on your behalf.
If your end user is not using Flow Builder manually, you just need to train them on the new concept of "cash position cash flow" and "liquidity analysis cash flow", then they could understand the figures in related cash reports or cash apps.

If your end user also has to run Flow Builder manually, some basic trainings are still needed here to let him/her know the updated UI.

If you have your own extensions in Flow Builder 1.0, you have to review them carefully. We suggest you using the new enhancement points.

Liquidity Analysis for all customers is individual and there are individual needs. Flow Builder Plus provides you with several options to adopt the behavior.

Enhancement Point FCLM_FB2_EXT

This enhancement provides the following interfaces:

DOC_FKONT_EXT

This interface is to adjust FKONT of a document item in the offsetting document. FKONT of an item affects how the item would be paired to other items in a document and how account assignments are replaced in chain tracing. The interface provides the document keys and the document item keys together with amounts and flow type (also flow level), as well as the FKONT decided by default.

CLR_FKONT_EXT

This interface is to adjust FKONT of a document item in offsetting clearing. FKONT of an item affects how the item would be paired to other items in a clearing relationship and how account assignments are replaced in chain tracing. The interface provides the clearing information together with account information, and the document item keys together with amounts and flow type (also flow level), as well as the FKONT decided by default.

DOC_LR_EXT

This interface is to adjust pairing side of a document item in offsetting document. It directly decides how the item would be paired to other items in a document, overwriting the default decision by FKONT. The interface provides the document keys and the document item keys together with amounts and flow type (also flow level), as well as the side (value ‘L’ or ‘R’) decided by default.
CLR_LR_EXT

This interface is to adjust pairing side of a document item in offsetting clearing. It directly decides how the item would be paired to other items in a clearing relationship, overwriting the default decision by FKONT. The interface provides the clearing information together with account information, and the document item keys together with amounts and flow type (also flow level), as well as the side (value ‘L’ or ‘R’) decided by default.

FINAL_DECISION_EXT

This interface is to adjust the decision whether a flow has been completely built in Flow Builder Plus. The interface provides the original item and offset item of a flow together with FKONTs on both sides and the current split amounts, as well as the final flag decided by default. You can change the final flag if you think the flow tracing should stop or go further. Final flag is the only field which could be modified. Changing the item keys would possibly cause flow lost.

Enhancement Point ES_FQM_FLOW_ADJUST_CORE

This enhancement is reused for all the source applications considered in One Exposure. You can adjust all aspects of the resulting flows to your needs. Validation is applied afterwards. The origin reference together with origin flow ID must be unique; origin transaction must not be created; and company code must not be changed.

Please refer to Note 3111810 Optimized Data Model and Algorithm: Technical Setup Guide for necessary technical setup after you switched on Optimized Data Model and Algorithm.


Please refer to Note 3128064 - Flow Builder: Technical Changes in S4CORE version 106

Please refer to Note 3211170 - Logic changes in Flow Builder

How to Determine Relevancy

You use at least one of the following Fiori apps:

- Short-Term Cash Positioning

- Cash Flow Analyzer
- Check Cash Flow Items
- Bank Account Balance
- Cash Position

Other Terms

Flow Builder

Flow Builder Plus

11.6 S4TWL - Fiori app Adjust Assigned Liquidity Items deprecated

Application Components: FIN-FSCM-CLM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3227455</td>
<td>S4TWL - 'Adjust Assigned Liquidity Items' Fiori app has been deprecated since S/4HANA on-premise 2022</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise 2022 edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

The Fiori application 'Adjust Assigned Liquidity Items' has been deprecated since S/4HANA on-premise 2022.

Business Process related information

There is currently no successor application available.

Required and Recommended Action(s)
Inform your business users.

**How to Determine Relevancy**

This Simplification Item is relevant if you have the 'Adjust Assigned Liquidity Items' Fiori application in use.

**Other Terms**

SAP S/4HANA, Upgrade

**11.7 S4TWL - End-of-Day Memo Record Reconciliation**

Application Components: FIN-FSCM-CLM-COP

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3351947</td>
<td>S4TWL - End-of-Day Memo Record Reconciliation</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA 2023. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

App and transaction in the SAP S/4HANA solution for EoD memo record reconciliation are deprecated as of SAP S/4HANA 2023.

Currently there is no successor application available.

**Business Process related information**

The following objects have been deprecated:
<table>
<thead>
<tr>
<th>Fiori App ID/Transaction Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>F4867</td>
<td>Reconcile Cash Flows - Memo Records</td>
</tr>
<tr>
<td>FCLM_CR_MMRD</td>
<td>Reconcile End-of-Day Memo Records</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Inform your business users.

**How to Determine Relevancy**

This Transition Worklist item is relevant for you if you are using one or more of the deprecated objects that are listed above.

**Other Terms**

SAP S/4HANA, Upgrade, F4867, FCLM_CR_MMRD
12. Financials – Controlling

12.1 S4TWL - Reference and Simulation Costing

Application Components: CO-PC-PCP-REF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2349294</td>
<td>S4TWL - Reference and Simulation Costing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Description

You are currently using base planning objects to store cost estimates that can be included in cost estimates for projects, sales orders and so on as items of type B (base planning object). The creation of cost estimates with reference to base planning objects is no longer supported in SAP S/4HANA. Instead you are recommended to use transaction CKECP to prepare ad-hoc cost estimates and CKUC to prepare multilevel material cost estimates where BOMs and routings are not available for the material in question.

Task: Check, if base planning objects are used in the customer system.

Procedure: Call transaction SE16 and select CKHS. On the selection screen you have to enter BZOBJ = '1' and use action 'Number of Entries' to determine the number of base planning objects.

Rating:
Simplification item and note is not relevant for the customer, if no CKHS entries exists with BZOBJ = '1'.

Solution

Business Process related information
Check your existing processes for cost estimation to determine whether you use costing items of type B (base planning object) as references for other cost estimates.

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Transaction Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create Base Planning Object</td>
<td>KKE1</td>
</tr>
<tr>
<td>Change Base Planning Object</td>
<td>KKE2</td>
</tr>
<tr>
<td>Display Base Planning Object</td>
<td>KKE3</td>
</tr>
<tr>
<td>Revaluate Base Planning Object</td>
<td>KKEB</td>
</tr>
<tr>
<td>Base Planning Object vs. Other Unit Cost Estimate</td>
<td>KKEC</td>
</tr>
<tr>
<td>Costed Multilevel BOM (only Base Planning Object Exploded)</td>
<td>KKED</td>
</tr>
<tr>
<td>Itemization</td>
<td>KKB4</td>
</tr>
<tr>
<td>Overview of Base Planning Objects</td>
<td>S_ALR_87013028</td>
</tr>
<tr>
<td>Where Used List of Base Planning Objects</td>
<td>S_ALR_87013029</td>
</tr>
<tr>
<td>Multilevel Explosion of Base Planning Object</td>
<td>S_ALR_87013036</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Remove above transactions from existing roles and train users to work with alternative transactions.

**Other Terms**

Base Planning Object

**12.2 S4TWL - Summarization Hierarchies in Controlling**

Application Components: CO-PC-IS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2349282</td>
<td>S4TWL - Summarization Hierarchies in Controlling</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case. In existing systems you can identify the use of summarization hierarchies by the fact that there are object numbers beginning with VD in tables COSP and COSS and entries for the hierarchy structure exist in View V_TKKR0_OR_NEW.
Reason and Prerequisites

Description

You are currently using summarization hierarchies, order hierarchies, or project hierarchies and want to understand the impact of moving to SAP S/4HANA.

The layers of the hierarchy are created using transaction KKR0 (Create Summarization Hierarchy). The top node of the hierarchy is always the controlling area. The next layers might be company code, plant, product hierarchy and material. In SAP ERP the totals for each node in the hierarchy were calculated using a data collection run (transaction KKRC) that typically ran at period close and calculated the totals for each material, each product group, each plant and each company code in the above example and updated these values to the CO totals tables (COSP and COSS) as summarization objects (object type VD). The results of these aggregations could be viewed using transaction KKBC_HOE.

SAP S/4HANA offers a new transaction KKBC_HOE_H that uses the hierarchy structure defined using transaction KKR0 but aggregates the order values on the fly and displays the results by node immediately. Note that this aggregation will aggregate actual costs, commitments, planned costs, and so on, but does not calculate target costs or variances on the fly. You must run transaction KKS1 or KKS1H to calculate target costs and variances before executing the new transaction.

Solution

Business Process related information

Transaction KKRC and KKBC_HOE are typically executed at period close since they require the pre-calculation of target costs. You can now run KKBC_HOE_H more frequently since it is not updating to the totals records by period, providing that you also run the target cost calculation KKS1 or KKS1H first.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>Transaction Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data Collection Run</td>
<td>KKRC</td>
</tr>
<tr>
<td>Analyze Summarization Hierarchy</td>
<td>KKBC_HOE</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)

Check your existing roles to determine which include transaction KKBC_HOE and KKRC and replace by KKBC_HOE_H.

Other Terms
Order Hierarchy, Project Hierarchy

12.3 S4TWL- Legacy MDI Cost Center Replication

Application Components: FI-GL-IS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3247070</td>
<td>S4TWL – Legacy MDI Cost Center Replication</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system upgrade to SAP S/4HANA 2022 or higher and use the legacy MDI cost center replication. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

The legacy MDI cost center replication is only available in SAP S/4HANA releases from 2020 until 2023. For more information regarding the legacy MDI Cost Center Replication please check the SAP Help documentation. Afterwards it is not possible to use this old functionality anymore.

Solution

Before upgrading to SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If yes, a migration to the new model is recommended and mandatory with SAP S/4HANA release 2023 at the latest. See SAP Note 3232417.

How to Determine Relevancy

This Simplification Item is relevant if you have entries in table DRFC_APPL_SYS, field OUTB_IMPL = FI_CO_CCTR. You can check if the replication model is active in table DRFC_APPL

Other Terms

MDI, Cost Center Replication, FI_CO_CCTR
12.4 S4TWL - Technical Changes in Material Ledger with Actual Costing

Application Components: CO-PC-ACT, FIN-MIG-ML

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2354768</td>
<td>S4TWL - Technical Changes in Material Ledger with Actual Costing</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition, higher or equal to on-premise 1610. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Material Ledger Actual Costing has been activated already in the system before the system conversion to SAP S/4HANA.

You can verify if Material Ledger Actual Costing is active for one or more plants via SAP Reference IMG / SAP Customizing Implementation Guide (transaction SPRO)

- Controlling

- Product Cost Controlling

- Actual Costing/Material Ledger

- Actual Costing

- Activate Actual Costing

= Checkbox 'Act.Costing' (Updating Is Active in Actual Costing)

When this checkbox is marked, this means that Material Ledger Actual Costing is active in this plant.

Technically this can be verified via database table T001W, field MGVUPD. 'X' means that Material Ledger Actual Costing is active in this plant.
In addition, the table T001W shows the link between the plant and the valuation area.

**Solution**

**Description**

With S/4HANA the data model for material ledger data has been changed significantly, especially when actual costing is active.

The main purpose for the changed data model is:

- Simplified Data Model
- Simplification of Calculation Logic
- Leverage the Strength of HANA

**Business Process related information**

- Reduce complexity and improve runtime in the Material Ledger Costing Cockpit for Actual Costing
- Example: 4 separate process steps ('Single-Level Price Determination', 'Multilevel Price Determination', 'Revaluation of Consumption', 'WIP Revaluation') are merged to one process step ('Settlement')
- New 2-dimensional distribution logic to avoids rounding errors
- Less "not-distributed" values
- No lock conflicts caused by material movements (in current period)
- Change of standard price for materials and activities within the period is supported

**Required and Recommended Action(s)**

- Deactivation of the statistical moving average is not mandatory in SAP S/4HANA, but is nevertheless recommended in order to achieve a significant increase of transactional data throughput for goods movements. It is important to note that the deactivation is not reversible. For further details regarding this matter please see description in SAP Support Note 2267835. With SAP S/4HANA, on-premise edition 1610, this option also includes materials with Moving Average price control and all special stock types. Additional details can be found in SAP Support Note 2338387.
- Separate currency customizing of Material Ledger (transactions OMX2 / OMX3) has become obligatory, Material Ledger is acting on a subset of the currencies defined for Financials. There is no default Material Ledger Type “0000” anymore.
- It is not allowed to use a ML Type that references to currency settings defined in FI or CO (flags “Currency Types from FI” resp. “Currency Types from CO”). Instead you have to define explicitly the currency and valuation types that are relevant for Material Ledger.
• Steps to be executed: 1. Define the currency and valuation types that are relevant for Material Ledger using transaction OMX2. 2. Afterwards assign this ML Type to your valuation area using transaction OMX3.

• Before system conversion is started, all Material Ledger costing runs, no matter if actual costing (transaction CKMLCP) or alternative valuation run (transaction CKMLCPAVR) need to be finished (e.g. step 'post closing' successfully executed, no error, no materials with status 'open'). Reason: After system conversion to SAP S/4HANA it will not be possible to do any changes on costing runs created before system conversion. You can create new costing runs for previous periods or for the current period, after data conversion in the new system, but it is important to have no incomplete costing runs, where just some steps have been started. This means, if you are doing a conversion in an open period (e.g. in the middle of a month), do not start a costing run in the old system on the old release, for this open period. You can create the costing run for this period later, after system conversion in the new system.

• It is not allowed to change Material Ledger costing runs, nor to run steps of Material Ledger costing runs during the process of system conversion.

• It is not allowed to activate or deactivate Material Ledger Actual Costing during the process of system conversion for one or more plants.

Details:

Simplified Data Model

• Tables MLDOC and MLDOCCCS
  o The new Material Ledger Document tables MLDOC and MLDOCCCS replace most former periodic tables (MLHD, MLIT, MLPP, MLPPF, MLCR, MLCRF, MLKEPH, CKMLPP, CKMLCR, MLCD, CKMLMV003, CKMLMV004, CKMLPPWIP, CKMLKEPH). For more information refer to note 2352383.
  o Some of the former periodic tables are still required for the following purposes:
    ▪ The Material Ledger Closing Document is stored in the former ML document tables (ML*)
    ▪ Standard Price. Periodic Unit Price and Price Control are still managed in table CKLMLCR
    ▪ Cost Component Split for Prices is still managed in tables CKMLPRKEKO and CKMLPRKEPH (But the values to Price Type 'B')
  o The design of tables MLDOC/ MLDOCCCS allows storing both line item and aggregated data.
  o Periodic transactions (goods movements, activity confirmation, etc.) update tables MLDOC/ MLDOCCCS with line item data using the INSERT ONLY principle.
Material Ledger Period Close creates (run-dependent) settlement records in tables MLDOC/MLDOCCCS to store the results from Actual Costing. These records are stored under the costing run key (field ‘Run Reference’) so that they are ‘visible’ only by the corresponding costing run. In this way different runs (e.g. a periodic run and an AVR) can store their results independently from each other.

Important design changes
- Single- and multilevel differences are no longer distinguished. In table MLDOC all price/exchange rate differences are stored in fields PRD/KDM. In table MLDOCCCS the CCS for price/exchange rate differences are stored under the CCS types E/F (field MLCCT).
- The CCS is stored in a table format using the cost component (field ELEMENT) as additional key. This allows increasing the number of cost components without modification.
- The CCS for preliminary valuation is always stored.

Tables MLDOC_EXTRACT and MLDOCCCS_EXTRACT
- The table MLDOC_EXTRACT holds information about quantity and valuation changes. Transaction based updates, like goods movements or invoice receipts, usually update tables MLDOC and MLDOC_EXTRACT in parallel. But table MLDOC_EXTRACT can be compressed. After compression, the table will contain only one entry per cost estimate number, period and currency type valuation view. Table MLDOC_EXTRACT allows fast and efficient calculation of total quantity and total value, by cumulating all records for specific cost estimate number(s). The same is true for table MLDOCCCS_EXTRACT which has been designed for holding cost component information. During period shift (transaction MMPV) the tables MLDOC_EXTRACT and MLDOCCCS_EXTRACT will be compressed automatically for periods older than previous period. Manual compression via program FCML4H_RMLDOC_EXTRACT_COMPRESS or via function module FCML4H_MLDOC_EXTRACT_COMPRESS is possible and recommended in case of very high number of material movements.

Table MLRUNLIST
- Table MLRUNLIST replaces the former table CKMLMV011 (Object List for Costing Run), but has some additional functions:
  - Materials and activities selected for a costing run are stored under the corresponding run id.
  - It manages the period status of materials and activities.
Data Conversion

In case Material Ledger Actual Costing has been activated already in the system, in one or more valuation areas, before the system conversion to SAP S/4HANA (when the system is e.g. on release SAP ERP 6.0 or on SAP Simple Finance), the tables MLDOC, MLDOCCCS, MLDOC_EXTRACT and MLDOCCCS_EXTRACT are filled automatically with data, during Migration Step M10: Migrate Material Ledger Master Data for the valuation areas, where Material Ledger Actual Costing has been activated. The data will be created starting from last period of year before previous year until the current period in the system. All material related goods movements or price changes from previous years will be converted to the MLDOC tables as if the goods movement or the price change has taken place in the last period of year before previous year. The data of the current year and of the previous year will be converted not based on single material documents or price change documents, but there will be one entry per period, per currency type and valuation view, per category (e.g. "Receipts"), per process category (e.g. "Production") and per production process. Data related to ML Alternative Valuation Runs are not converted automatically during Migration Step M10.

Functional changes/improvements

Material Price Analysis (Transaction CKM3):

- No separate view for Cost Components, but integrated in main screen
- Flag for selection of cost components not relevant for material valuation, or only cost components relevant for material valuation; by default selection of inventory relevant cost component split. This behavior can be enhanced by implementing SAP Support Note 2467398 (further details are described within this note)
- Display of WIP Reduction for material; by default WIP Reduction is hidden; If WIP reduction is displayed, both WIP reduction and consumption of WIP for order are shown in opposite sign in different folder.
- Plan/Actual Comparison is removed in new CKM3
- Technically, data are retrieved from table MLDOC, MLDOCCCS and MLDOC_EXTRACT and MLDOCCCS_EXTRACT

Remark: Data older than last period of year before previous year (related to current period in the system for a specific company code, at the time of system conversion) cannot be displayed via transaction CKM3 because the 'old' data has not been converted to the MLDOC-tables. To show data older than last period of year before previous year you can use transaction CKM3OLD('Material Price Analysis') or CKM3PHOLD ('Material Price History'). To display single material ledger documents, created before system conversion, you can also use transaction CKM3OLD. The system conversion will not convert single material ledger documents, but there will be one entry per category,
process category and procurement alternative/process, with aggregated quantities, amounts and price/currency differences of single material ledger documents. So CKM3 will show data also on this level for migrated data.

CKM3 will show all details on single material ledger documents for postings created after system conversion.

CKM3OLD will not show postings created after system conversion

ML Actual Costing Cockpit (Transaction CKMLCPAVR):

- In the transactions CKMLCP and CKMLCPAVR, there is an additional parameter “Application”. This means that the application can be chosen so that it is possible to process Alternative Valuation Runs via the transaction CKMLCP and Actual Costing Runs via the transaction CKMLCPAVR.
- In the toolbar of the transactions CKMLCP and CKMLCPAVR, there is a new button next to the “Display <-> Change”-Button to switch the application from “Costing Run” to “Run Reference” and back.
- When the application is switched to “Run Reference”, a run reference can be created, changed or displayed. A run reference is a reference that contains all settings of an Alternative Valuation Run. It can be used when creating an Alternative Valuation Run but it is only mandatory for creating Alternative Valuation Runs for Parallel COGM. It can also be created for a single period run, for year-to-date run or for a rolling run.
- There are 2 options for creating an AVR:
  o Create a “Classic AVR” which is the same like before.
  o Create an AVR with run reference which means the settings are taken from the run reference and can’t be changed. Only the plants must be chosen.
- Some of the programs and therefore also the steps in the section “Processing” have changed. The new steps of an ML costing run are:
  o Selection (program FCML4H_SELECTION)
  o Preparation (program FCML4H_PREPROCESSOR)
  o Settlement (program FCML4H_SETTLEMENT)
  o Post Closing (program FCML4H_POST_CLOSING)
- It is no longer possible to use delta posting runs.
- Additionally to the status of the materials, the status of the activity types is displayed in the section “Processing”. The button “Activity Types” for displaying the activity types value flow has been removed.
- The section “Costing Results” has been removed. It will be replaced by the report FCML4H_RUN_DISPLAY_MATERIALS that displays a material list with status. It will called via the button “Results” in the section “Processing”.

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• The classical CKMLCP steps *Single Level Price Determination, Multilevel Price Determination, Revaluation of Consumption* and *WIP Revaluation* have been replaced by the new step *Settlement* which essentially does all cost allocations and actual price calculations. Additionally the step *Preparation* is required to prepare the data (e.g. reading of apportionment structures, actual activity prices, cost sequence determination).

• A change of standard price for materials and activities within the period is now supported

• Easier reprocessing: If a material is reprocessed by settlement the depending materials on higher costing levels which need to be reprocessed are recognized automatically

• Consumption Price Differences (i.e. Price Differences updated in Consumption Folder) are now taken into account

• A new 2-dimensional distribution logic avoids rounding errors. The new ‘CKM3’ will match vertically and horizontally even on level of Cost Components

• Price Limiter Logic is accurate on level of Cost Component Split

• Materials and Activity Types are widely treated as equivalent objects. The cost allocation logic is essentially the same. The same reports (e.g. CKM3, CKMVFMM) can be used for both of them (-> to be enabled yet!)

• Alternative Valuation Run (AVR):
  o The new AVR do no longer copy the data into a separate key area. (Only the settlement records are stored under the AVR ‘Run Reference’, see above). In particular, the cumulation of several period is done ‘On-the-fly’.
  o The former step *Cumulate Data* is no longer needed
  o The complex rescale logic, which adjusts all materials data to a common preliminary AVR price, is no longer needed.
  o All AVR can now handle WIP

• Post Closing:
  ▪ Post Closing uses a ‘push logic’ (in accordance to the new Settlement). This means that the price differences rolled from an input to the output are now posted in the closing document of the input (material/activity)
  ▪ For activity types (and business processes) a new posting has been introduced. See the documentation in transaction OBYC for the new transaction key PRL:
    *Price differences for activity types or business processes. During settlement in the material ledger, these price differences are posted from cost centers (Transaction/Account Modification GBB/AUI) to the material ledger (transaction PRL) and then further allocated to the receivers (finished products/WIP).*
Restrictions

- AVR Delta Posting Logic is not available
- The BAdI BADI_ENDING_INV for external valuation is currently not available. Static external valuation (for ending inventory or cumulated inventory) based on table CKMLPR_EB is available with note 2613656
- The BAdI CKMLAVR_SIM has been replaced by the BAdI FCML4H_MODIFY_VALUES. For more information refer to the following note: 2876478 Documentation for BAdI FCML4H_MODIFY_VALUES
- Material Ledger Costing Runs and Alternative Valuation Runs, which have been created before the system conversion cannot be changed nor reversed any more after the conversion to SAP S/4HANA
- Material Ledger Valuated Quantity Structure (Transaction CKMLQS) is available after implementing the following notes (, or related support package):
  2378468 Enable CKMLQS based on table MLDOC
  2495950 CKMLQS: Connection to CKM3

Other Terms

ML, Actual Costing, CKM3, CKMLCP, CKMLCPAVR, MLDOC, MLDOC_CCS, MLAST, T001W, MGVUPD, plant, WERKS_D, BWKEY, CKMLQS

12.5 S4TWL - Material Ledger: deprecated table for currency and valuation types

Application Components:CO-PC-ML

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3017994</td>
<td>S4TWL -Material Ledger: deprecated table for currency and valuation types</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system upgrade or conversion to SAP S/4HANA 2021. The following SAP S/4HANA Transition Worklist item is applicable in this case.
The custom code check shows customer objects affected by simplifications.

SAP objects used by the customer objects have become obsolete.

**Reason and Prerequisites**

Renovation

SAP table CKMLCT (Currency Types and Valuation Types in a Valuation Area) has become obsolete with SAP S/4HANA 2021.

This note contains detailed descriptions about how to adopt customer objects to the data model change.

**Solution**

**Required and Recommended Action(s)**

Please run the ATC custom code check for simplification item S4TWL - Material Ledger: deprecated table for currency and valuation types.

If the custom code check returns affected objects, please replace all usages of table CKMLCT with view FMLV_CKMLCT. The view FMLV_CKMLCT has the same structure like table CKMLCT.

With S/4HANA the posting amounts of Material Ledger and General Ledger are always in sync. Therefore the fields ADJUST_FLAG (Currency Type Reconc), ADJUST_VERS (SAP Release), ADJUST_DATE (Reconcil. Date) and ADJUST_USER (User Who Performed the Reconciliation) are not needed anymore. The view FMLV_CKMLCT returns initial values for this fields.

**Other Terms**

Worklist

CKMLCT

Currency Types and Valuation Types in a Valuation Area

**12.6 S4TWL - EC-PCA - Classical profit center accounting**

Application Components:EC-PCA

Related Notes:
Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 2993220 | S4TWL - EC-PCA - Classical profit center accounting

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Classical Profit Center Accounting (PCA) is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Classical Profit Center Accounting can be found under the ID 427.

This means that you need to migrate from Classical Profit Center Accounting to its designated alternative functionality "Profit Center Accounting on Universal Journal" in SAP S/4HANA before expiry of the compatibility pack license. This note shall provide information on what to do to move to the alternative functionality.

**Business Process related information**

Classic PCA in SAP S/4HANA is active if the active indicator is set in transaction 0KE5 (field PCRCH for the corresponding controlling area in the table TKA00 is set to ‘2’) and the online posting of data records in the tables (GLPCA = actual line items table, GLPCT = totals table, GLPCP = plan line items table) has been activated using transaction 1KEF.

A description of the functionality in compatibility scope you find in the SAP S/4HANA Feature Scope Description in section Profit Center Accounting (EC-PCA).

**Required and Recommended Action(s)**

Refer to SAP note 2425255 - Profit Center Accounting in the universal journal in SAP S/4HANA, on-premise edition for a description of

- how PCA is mapped in the context of SAP S/4HANA and
- to what extent classical PCA can be used in parallel with SAP S/4HANA.
- what changes if classical PCA is deactivated in SAP S/4HANA
In the following you find important aspects relevant for a switch from classical Profit Center Accounting to Profit Center Accounting on Universal Journal. For details refer to SAP note 2425255.

- In SAP S/4HANA, PCA is mapped in the universal journal by default. This means, if you still use classical PCA, Profit Center Accounting in the universal journal is also always active in parallel. To stop using classical PCA you have to deactivate it as described in note 2425255.
- It is not necessary to migrate data from classic PCA (tables GLPCA/GLPCP/GLPCT) to the universal journal, that is, to the table ACDOCA, when deactivating classical PCA.
- The existing authorization objects are still available and valid.
- The libraries for classic PCA in Report Writer are part of the compatibility scope and are available only for a limited period of time as well. Refer also to compatibility scope ID 433 "Report Writer / Report Painter in Finance and Controlling". As explained in note 2425255 you can use the report FAGL_RMI GR to change the data source of your existing reports.
- The planning transactions for classic PCA are part of the compatibility scope and are available only for a limited period of time. If you want to use classical planning transactions, please use transactions GP12N, GP12NA, FAGLP03 (plan data entry in FI, including profit center), together with the plan assessment cycles (FAGLGA4* transactions) and plan distribution cycles (FAGLGA2* transactions) instead. Refer also to simplification item SI2_FIN_CO and note 2270407 - S4TWL - Profit and Loss Planning, profit center planning, cost center planning, order planning, and project planning.
- A migration of allocations from classic Profit Center Accounting to the universal journal is not possible.

Other Terms

SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Profit Center Accounting, ID 427

12.7 S4TWL - Changes in EBRR backend transactions

Application Components: CO-PC-OBJ-EBR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3226957</td>
<td>S4TWL - Changes in EBRR backend transactions</td>
</tr>
</tbody>
</table>
Symptom

You are doing an upgrade from a lower to a higher SAP S/4HANA release and are using a transaction, or report described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

This note describes changes of backend transactions and the Fiori application portfolio of Event-Based Revenue Recognition with SAP S/4HANA 2022.

Reason and Prerequisites

Renovation

Solution

Following transactions and reports are deprecated as of release SAP S/4HANA 2022. This means, these transactions and reports are still available and supported but no new features or enhancements can be expected. We plan to make them obsolete in favor of the designated successor functionality as of release SAP S/4HANA 2023.

GUI transactions:

- REV_REC_COL_PRO (Event-Based Revenue Recognition: Projects/WBS Elements)
- REV_REC_COL_PRO_RSP (Event-Based Revenue Recognition: Re-evaluate Projects)
- REV_REC_COL_SD (Event-Based Revenue Recognition: Sales Documents/SD Items)
- REV_REC_COL_SVD (Event-Based Revenue Recognition: Service Document Items)
- REV_REC_PEC_RV_SD (Reverse Revenue Recognition)

Reports:

- FINS_TRR_COLACT_PRO (Event-Based Revenue Recognition: Projects/WBS Elements)
- FINS_TRR_COLACT_PROBG (Event-Based Revenue Recognition: Projects/WBS Elements)
- FINS_TRR_COLACT_PRO_LOGBG (Event-Based Revenue Recognition: Re-evaluate Projects from Log)
- FINS_TRR_COLACT_PRO_RSP (Event-Based Revenue Recognition: Re-evaluate Projects)
- FINS_TRR_COLACT_SD (Event-Based Revenue Recognition: Sales Documents/SD Items)
- FINS_TRR_COLACT_SDBG (Event-Based Revenue Recognition: Sales Documents/SD Items)

- FINS_TRR_COLACT_SVD (Event-Based Revenue Recognition: Service Document Items)
- FINS_TRR_COLACT_SVDBG (Event-Based Revenue Recognition: Service Document Items)
- FINS_TRR_REEVAL_REVERSE (Reverse Reevaluation Documents from EBRR)

Business Process related information

Link to Help Portal documentation:

- Event-Based Revenue Recognition for Projects
- Event-Based Revenue Recognition for Sales Orders
- Event-Based Revenue Recognition for Service Documents
- Reverse Revenue Recognition

Required and Recommended Action(s)

Based on your preferences, we recommend you switch to the following successor transactions or fiori applications.

<table>
<thead>
<tr>
<th>Deprecated Transactions and Reports</th>
<th>Successor Transactions and Fiori applications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Transactions</strong></td>
<td>Transactions (Starting with S/4HANA 2022)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
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<tr>
<td></td>
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</tr>
<tr>
<td><strong>Reports</strong></td>
<td>Fiori applications (available with Sales Accountant role - SAP_BR_SALES_ACCOUNTANT)</td>
</tr>
<tr>
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<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Transaction</strong></td>
<td>Transactions (Starting with S/4HANA 2022)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reports</th>
<th>Transactions (Starting with S/4HANA 2022)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• FINS_TRR_COLACT_SD&lt;br&gt;• FINS_TRR_COLACT_SDBG</td>
<td>• REV_REC_PEC_SD (Run Revenue Recognition – Sales Orders)&lt;br&gt;Fiori applications (available with Sales Accountant role - SAP_BR_SALES_ACCOUNTANT)</td>
</tr>
<tr>
<td></td>
<td>• F2441 Event-Based Revenue Recognition - Sales Orders&lt;br&gt;• F4101 Manage Real-Time Revenue Recognition Issues&lt;br&gt;• F4185 Manage Revenue Recognition Issues - Sales Orders&lt;br&gt;• F4276 Run Revenue Recognition - Sales Orders</td>
</tr>
<tr>
<td>Transaction</td>
<td>Transactions (Starting with S/4HANA 2022)</td>
</tr>
<tr>
<td>• REV_REC_COL_SVD</td>
<td>• REV_REC_PEC_RT (Manage Real-Time Revn. Recogn. Issues)&lt;br&gt;REV_REC_PEC_SVD (Run Revenue Recognition – Service Documents)&lt;br&gt;Fiori applications (available with Sales Accountant role - SAP_BR_SALES_ACCOUNTANT)</td>
</tr>
<tr>
<td>Reports</td>
<td>• F6007 Event-Based Revenue Recognition - Service Documents&lt;br&gt;• F4101 Manage Real-Time Revenue Recognition Issues&lt;br&gt;• F4186 Manage Revenue Recognition Issues - Service Documents&lt;br&gt;• F4278 Run Revenue Recognition - Service Documents</td>
</tr>
<tr>
<td>Transaction</td>
<td>Transactions (Starting with S/4HANA 2022)</td>
</tr>
<tr>
<td>• REV_REC_PEC_RV_SD</td>
<td>• REV_REC_PEC_RV (Reverse Revenue Recognition)&lt;br&gt;Fiori applications (available with Sales Accountant role - SAP_BR_SALES_ACCOUNTANT)</td>
</tr>
<tr>
<td>Report</td>
<td></td>
</tr>
<tr>
<td>• FINS_TRR_REEVAL_REVERSE</td>
<td></td>
</tr>
</tbody>
</table>
### Other Terms

SAP S/4HANA, Upgrade, deprecation

### 12.8 S4TWL - TECHNICAL CHANGES IN CONTROLLING

**Application Components:** CO-PC, CO-PA, CO-OM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270404</td>
<td>S4TWL - Technical Changes in Controlling</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This note is relevant if you are doing a conversion from ERP ECC 6.0 (EHP 7 or higher) to S/4 HANA.

**Solution**

**Business Value**

In SAP S/4 HANA the totals records for primary and secondary costs have been removed and the universal journal includes all actual cost postings, both primary and secondary.

- This ensures for primary postings that there is a single source of truth, such that all general ledger items with an assignment to cost centers, orders, WBS elements, business processes, or CO-PA characteristics are treated as one data record which is enriched with the relevant profit center, functional area, segment, and so on. Since Financial Accounting and Controlling will always be in sync, the company code is checked during all postings to an account assignment in
Controlling and that it is no longer possible to remove the flag "CoCd Validation" in the controlling area.

- For secondary postings this ensures that all sender-receiver relationships that are triggered by allocations, settlement, and so on are captured in the universal journal along with the partner profit centers, functional areas, and so on that are affected by the allocation.

**Description**

**Actual Items:**

- Actual data of COEP (WRTTP = ‘04’) is now stored in ACDOCA.
- Actual statistical data of COEP (WRTTP = ‘11’) is stored in ACDOCA using additional columns for the statistical account assignments and in COEP for compatibility access.
- Actual data needed for long-term orders/projects from COSP_BAK, COSS_BAK is stored in table ACDOCA.
- Currently, COBK is written as before.
- Compatibility views V_<TABLENAME> (for example, V_COEP) are provided to reproduce the old structures.
- Access to old data in tables is still possible via the views V_<TABLENAME>_ORI (for example, V_COEP_ORI).
- Value types other than ‘04’ and ‘11’ are still stored in COEP, COSP_BAK, COSS_BAK.

**Business Process related information**

The former tables COEP, COSP, and COSS are replaced by views of the same name, so-called compatibility views, that aggregate the data in the universal journal on the fly in accordance with the old table structures.

CO standard transactions are adapted in a stepwise manner to access the new universal journal table (ACDOCA) directly instead of using compatibility views. The conversion process is ongoing.

From a business point of view, all classic transactions are still running - based on compatibility views or using direct access to ACDOCA.

The goal of the compatibility views is to provide a bridge to the new data model. Using these views may have a performance impact on existing reports and you are recommended to investigate whether the new Fiori reports meet your business needs. Customer coding still runs based on compatibility views.

**Required and Recommended Action(s)**
Please check your customer-specific programs using CO tables. Customer coding should be adapted by replacing the access via compatibility views with direct access to ACDOCA for value types 04 and 11. Details are described in note 2185026.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270407</td>
<td>S4TWL - Profit and Loss Planning, profit center planning, cost center planning, order planning, and project planning</td>
</tr>
</tbody>
</table>

**Other Terms**

SAP_FIN, S4CORE

**12.9 S4TWL - PROFIT AND LOSS PLANNING AND PROFIT CENTER PLANNING**

Application Components: CO-OM, FI-GL

Related Notes:

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This Simplification Item is relevant if:

- Classic Profit Center Planning is used if entries exist in Table GLPCP (check with SE16).
- CO-OM Planning is used if entries exist in Table COEJ (check with SE16).
• P&L Planning is used: Use ST03N (on the production system, if possible) to check transaction profile of the complete last month, whether the following transactions have been used: FSE5N, FSE6N, FAGLPLSET, GP12N, GP12NA
• Production/process order planning is used if planned cost calculation is active for the combination of plant and order type and is carried out automatically when the production order (CO01 or CO02) or the process order (COR1 or COR2) is created, changed or released. Use Customizing T-codes COR4 and OPL8 to check whether plan costs are determined for production order and process orders.

Solution

Business Value

The universal journal is the unifying element for Accounting. From SAP S/4HANA 1610 it is possible to store the results of planning in a new table, ACDOCP, that has the same structure as the universal journal (ACDOCA). The same unifying approach is taken in planning, meaning that wages and salaries planned on a cost center are automatically assigned to the correct profit centers, functional areas, company codes, and so on and targets set by profit center can automatically be broken down to the assigned cost objects. In many organizations planning tasks had been moved to a data warehouse on account of the lack of flexibility in the ERP tables. This flexibility is now achieved by using SAP Analytics Cloud for Planning. This holds true for S/4HANA On-Premise and S/4HANA Cloud. Master data and transactional data can be sourced from SAP S/4HANA to SAP Analytics Cloud. In SAP Analytics Cloud pre-defined business content for Integrated Financial Planning can be leveraged as a project foundation. The business content is aligned to structures in S/4HANA and enables the E2E planning process.

Description

CO-OM planning, P&L planning, and profit center planning are now covered by SAP Analytics Cloud for S/4HANA Finance. If you do not want to use SAP Analytics Cloud with S/4HANA On-Premise, but classic FI-GL and CO-OM planning functions instead, you can continue to use the classic planning transactions. Bear in mind, however, that in this case the planning results are written to the totals tables and require "plan integration" to share data between plans. Reports designed specifically for use with S/4 HANA Finance do not read these totals tables, so the planned data will only be visible in Report Writer/Painter transactions.

• FI-GL Planning - SAP Note 2253067 describes how to reactivate
• Profit Center Planning (classic) - SAP Notes 2345118 and 2313341 describe how to reactivate
• Cost Center Planning by Cost Element - no longer in menu but can be used in SAP S/4 HANA
• Order Planning by Cost Element - no longer in menu but can be used in SAP S/4 HANA
• Project Planning by Cost Element - no longer in menu but can be used in SAP S/4 HANA
• Project Planning Overall - no longer in menu but can be used in SAP S/4 HANA

Customer project requires to import business content “Integrated Financial Planning for S/4HANA” from SAP Analytics Cloud content network and adapt the delivered objects to customer needs. Customers preferring to delay such a project can reactivate the classic planning transactions using the SAP Notes described above. Note that classic profit center planning is part of the compatibility scope and usage rights will expire in future.

Note that it is also possible to run the two solutions in parallel, however this should only be taken into account to support a transition to ACDOCP with SAP Analytics Cloud. Running two solutions in parallel, either classic CO planning with SAP BPC for S/4HANA Finance or with SAP Analytics Cloud is not the strategic direction of SAP. SAP Note 2061419 describes how to retract data from SAP BPC for S/4HANA Finance into the totals tables so that this data can be used as a basis for cost center allocations and activity price calculation and order/project budget setting and settlements and to extract the data back to SAP BPC for S/4HANA Finance so that it is available for reporting when the planning cycle is complete.

Transaction KEPM (Profitability Planning) supports both account-based CO-PA within the universal journal and costing-based CO-PA and is still in the menu. The investment planning and budgeting transactions are still in the menu and supported. As an alternative to transaction KEPM, you can now use the new planning applications in SAP BPC for market segment planning (amounts by market segment - available from 1511), sales planning (quantities and prices by market segment - available from 1610) and product cost simulation (valuation of sales quantities using product cost estimate - available from 1610).

Planning data is also created automatically when production/process orders are saved or released. This planned data currently updates both table CKIS and COSP/COSS and the new planning table, ACDOCP. The new table stores two types of planned values for the production order: the planned costs (as in CKIS) and the standard costs adjusted for the order lot size (previously only accessed during target cost calculation). The two types of planned values are assigned to plan categories (PLANORD01:Production order plan costs and PLANORD02:production order standard costs) and provide the basis for target cost calculation in the SAP Fiori apps Production Cost Analysis and Analyze Costs by Work Center/Operation.

**Business Process related information**

To start with Integrated Financial Planning for S/4HANA the business content needs to be imported to SAP Analytics Cloud. See SAP Note 2977560 for more details.

Implications:
• Customer roles (menus and authorizations) may need to be adapted.
• Decision needed as to when plan/actual reporting will be based on Universal Journal or take place in Integrated Financial Planning content in SAP Analytics Cloud.
• Decision needed as to whether planning data is needed for follow-on processes in S/4HANA Finance (e.g. target cost calculation for cost centers, project budgeting or order budgeting)
• Decision needed as to whether order and project planning is required for reporting and budgeting purposes in Investment Management
• Implications: SAP Analytics Cloud needs to be set up and configured.

If SAP BPC for S/4HANA Finance is desired or required, then SAP BPC for S/4HANA Finance has to be set up (SAP Note 2081400). Implications:

• SAP BPC is not the strategic planning solution anymore. If an on-premise planning solution is a must, SAP BPC is a comprehensive and mature option. Anyhow this should only be considered as an intermediate step towards a transformation to SAP Analytics Cloud. Please check end-of-maintenance dates prior to any new BPC project.
• Customer roles (menus and authorizations) may need to be adapted.
• Decision needed as to whether plan/actual reporting will be based on totals tables or take place using SAP Fiori apps.
• Decision needed as to whether planning data is needed for follow-on processes in S/4HANA Finance (e.g. target cost calculation for cost centers, project budgeting or order budgeting)
• Decision needed as to whether order and project planning is required for reporting and budgeting purposes in Investment Management
• Implications: SAP BPC needs to be installed and configured, respective front-ends chosen, and so on.
• If you are intending to implement project planning, please ensure that there is a master data status in place to prevent changes to the WBS number (business transaction: Change WBS number) once planned data has been entered, since the content delivered for project planning (/ERP/PROJECT and /ERP/WBSELMET) uses a view to read the business definition of the project definition and WBS element rather than the internal ID. If the WBS number is changed, you will lose the link to the associated planned data. Please refer to the following SAP knowledge base article for further details. https://launchpad.support.sap.com/#/notes/2162222
• If you currently calculate planned costs for production orders, no business process changes are required, but be aware that the information in the new planning table is only visible in Fiori apps, such as Production Cost Analysis and Analyze Costs by Work Center/Operation. The information shown in the SAPGUI transactions (CO01-3, COR1-3 and KKBC_ORD) is based on the old tables so you will not see costs by work center or operation in these transactions even though the additional detail is stored in the ACDOCP table.
Transactions which have been removed from the menu in SAP S/4HANA on-premise edition 1511

| GP12N, GP12NA, FAGLP03 (plan data entry in FI) plus plan assessment cycles (FAGLGA4* transactions) and plan distribution cycles (FAGLGA2* transactions) - can be reactivated using SAP Note 2253067. |
| CJ40/CJ42 (overall planning on projects) KP06/KP07 (cost centre planning), CJR2/CJR3 (project planning) and KPF6/KPF7 (order planning) - removed from menu but can still be used. |
| 7KE1-6 and 7KEP (profit center planning), IKE0 (transfer CO-OM plan to profit center plan) - part of compatibility scope |

Required and Recommended Action(s)

- Decision needed concerning scope of existing planning processes, requirements for plan/actual reporting and ability to use delivered business content for SAP Analytics Cloud or SAP BPC for S/4HANA Finance.
- No changes to existing tables, but table ACDOCP offered in addition from 1610.
- Follow steps in attachment provided with SAP Note 2661581 to set up plan categories. During system installation, upgrade, the pre-delivered table entries are only imported into client 000. For new client, the table entries can be copied to a new client during client copy automatically. But for existing client before the upgrade, the table entries should be imported into the target client manually.

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>Please check scope of existing planning activities and determine whether they can be covered using the business content currently available for SAP BPC for S/4HANA Finance. If you are currently using activity price calculation to set activity rates or Investment Planning, you can still use Integrated Business Planning for Finance but will need to retract the results to tables COSP_BAK, COSS_BAK to perform the follow-on processes. If you are using costing-based CO-PA the table structure will remain unchanged and there will be no loss of functionality.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related SAP Notes</td>
<td>SAP Note: 2081400, 1972819</td>
</tr>
</tbody>
</table>

Other Terms

ACDOCP
12.10S4TWL - ACTIVITY-BASED COSTING

Application Components: CO-OM-ABC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270408</td>
<td>S4TWL - Activity-Based Costing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

In the conversion check, you get an error message FI_GL_08: CO-version XXXX/YYYY is an ABC delta version and not usable in S/4.

Reason and Prerequisites

Task: Check if "Activity Based Costing" is activated in any controlling area.

If the component is active, check whether the component is being used for parallel calculation, since the delta versions needed for parallel calculation are no longer supported in SAP S/4HANA.

Procedure: To check whether the component is active, go to the implementation guide (Transaction SPRO) and choose Controlling --> General Controlling --> Maintain Controlling Area--> On the popup chose "Maintain Controlling Area" and check the relevant controlling areas: Choose the controlling area. Press "Activate components/control indicators": Check whether the Activity Based Costing is activated under "Activate components/control indicators”.

Alternatively: Instead of checking the customizing entries for all controlling areas manually, use transaction SE16 to check whether table TKA00 (controlling areas) contains at least one entry with the field value TKA00-COABC = 1 ("Component Active for Parallel Calculation") or 2 ("Component Active for Parallel Calculation and Integrated Calculation"). If TKA00-COABC is empty the component "Activity Based Costing" is not active.

If the component "Activity Based Costing" is active, check whether delta versions have been created for parallel calculation. In the implementation guide, choose Controlling - General Controlling - Maintenance and check which versions are defined. Delta versions for Activity Based Costing can be identified by the existence of a reference version in the Controlling Area Settings. Choose "Controlling Area Settings" and check
whether a reference version has been assigned. Then check "Controlling Area Settings > Delta Version: Business Transactions from Reference Version" to determine which transactions are currently being included in this delta version.

Alternatively: instead of checking the customizing entries for all versions manually, use transaction SE16 to check whether table TKA09 (CO versions) contains at least one entry where TKA09-REFVS points to a reference version. If TKA09-REFVS is empty, then delta versions are not in use.

**Rating:**

If at least one controlling area has set "Component Active for Parallel Calculation" or "Component Active for Parallel Calculation and Integrated Calculation" this note is relevant for you. If all controlling areas have set "Component Not Active" this note is not relevant for you.

If you have defined a CO version that uses a Reference Version to store the values for Activity Based Costing, this note is relevant for you. If there are no entries for reference versions in the controlling area settings for the version, then this note is not relevant to you.

**Solution**

**Description**

Activity-Based Costing (CO-OM-ABC) using delta versions is not available in SAP S/4HANA. Delta versions in general are not available in SAP S/4HANA, so the option to use Parallel Activity Based Costing (setting in the controlling area) is no longer available. Activity-Based Costing using version 0 (Integrated Activity Based Costing in the controlling area settings) is still supported.

If you can work without delta versions after the S/4 conversion, you can ignore the check.

In this case we recommend to delete the data of the delta versions in the ECC system according to note 3126356 to avoid any error messages in the conversion check.

Alternatively you can skip the error message in the conversion check and not map the delta versions to a ledger for migration. They will then be ignored and no longer visible in reporting.

**Business Process related information**

Allocations performed in parallel activity based costing are no longer supported.
Transaction not available in SAP S/4HANA on-premise edition 1511

Transaction codes do not distinguish parallel and operative activity based costing. Where version 0 is used, there will be no change. Where a delta version is used, the system will issue an error message.

Since the **period close** transactions for Cost Center Accounting include the business process as a sender/receiver, there is no need for the separate transactions for Activity-Based Costing. For this reason transaction CPV5 has been replaced by KSV5 (distribution), transaction CPP5 by KSU5 (assessment), transaction CPC5 by KSC5 (indirect activity allocation), and CPII by KSII (activity price calculation). The same applies to the transactions to maintain cycles so CPV1-3 are covered by KSV1-3, CPP1-3 by KSU1-3 and CPC1-3 by KSC1-3.

Similarly the **actual posting** transactions for Cost Center Accounting include the business process as an account assignment so there is no need for separate transactions for Activity-Based Costing. Therefore transactions KB11NP, KB13NP and KB14NP are covered by transactions KB11N, KB13N and KB14N. Transactions KB21NP, KB23NP and KB24NP are covered by transactions KB21N, KB23N and KB24N. Transactions KB31NP, KB33NP and KB34NP are covered by transactions KB31N, KB33N and KB34N. Transactions KB15NP, KB16NP and KB16NP are covered by transactions KB15N, KB16N and KB17N. Transactions KB51NP, KB53NP and KB54NP are covered by transactions KB51N, KB53N and KB54N.

The **planning** transactions for Activity Based Costing (CP06/CP07, CP26/CP27, CP46/CP47 and CP97/CP98 use the old data model and update the totals records. The business process is not included in the delivered data model for SAP Analytics Cloud for Planning or SAP BPC optimized for S/4HANA. If you are unable to access some of the planning transactions, please refer to SAP Note 2366171.

**Required and Recommended Action(s)**

Activate Operational Activity Based Costing. Check existing roles and adjust assigned transactions if necessary.

**Related SAP Notes**

**Conversion Pre-Checks**

Check controlling area settings in customizing to determine the type of Activity Based Costing which is active. Check version settings in Customizing to determine whether there are CO versions other than version 0 that contain actual data.

**Other Terms**

Activity Based Costing (CO-OM-ABC)
12.11S4TWL - GENERAL COST OBJECTS AND COST OBJECT HIERARCHIES

Application Components: CO-PC-OBJ

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270411</td>
<td>S4TWL - General Cost Objects and Cost Object Hierarchies</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Table CKPH contains master data for cost objects and/or cost object hierarchies.

Solution

Description

General Cost Objects and Cost Object Hierarchies are not available within SAP S/4HANA, on-premise edition 1511.

Business Process related information

General Cost Objects are not available within SAP S/4HANA, on-premise edition 1511 (consider using internal orders or product cost collectors instead). The associated functions were previously part of the menu Controlling > Product Cost Controlling > Cost Object Controlling > Intangible Goods and Services. Note that a general cost object is not the same as a CO object which can refer to orders, WBS elements or any item to which costs can be assigned.

Cost Object Hierarchies are not available within SAP S/4HANA, on-premise edition 1511 (consider using summarization hierarchies for aggregation of costs on manufacturing orders and distribution of usage variances function to distribute inventory differences and activity differences instead). The associated functions were previously part of the menu Controlling > Product Cost Controlling > Cost Object Controlling > Product Cost by Period.
Custom Code to update cost object to CO tables will still run. Contact SAP for pilot note to release functions for short term use.

Where the cost object hierarchy is being used to aggregate costs collected on the manufacturing orders, it is recommended that an order hierarchy be used instead. These hierarchies are created by using transaction KKR0 and are aggregated at runtime by using transaction KKBC_HOE_H. Note that this transaction behaves like transaction KKBC_HOE but does not require a data collection run to pre-aggregate the data for each hierarchy node.

Where the cost object hierarchy is used to collect costs at an aggregate level and then distribute them to the associated manufacturing orders, it is recommended that transaction CKMDUVMAT be used to distribute material usage variances and CKMDUVACT to distribute activity usage variances.

Analyze reporting processes to determine whether cost objects are used as an account assignment and understand the nature of the costs posted to the cost object nodes. Use distribution of usage variances function as an alternative for cost distribution.

Analyze reporting processes to determine whether cost objects are used to aggregate costs and understand the nature of the reporting hierarchy (representation of profit centers, cost centers, responsibility areas) and determine alternative ways of reporting.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>KKC1, KKC2, KKC3 - Create, change and display general cost objects</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>KKPH - General cost objects - collective entry</td>
</tr>
<tr>
<td></td>
<td>KKH1, KKH2, KKH3 - Create, change and display cost object groups</td>
</tr>
<tr>
<td></td>
<td>KK16, KK17 - Cost object planning by cost element and activity</td>
</tr>
<tr>
<td></td>
<td>KK46, KK47 - Cost object planning by statistical key figure</td>
</tr>
<tr>
<td></td>
<td>KKC4, KKC5, KKC&amp; - Create, change and display cumulative cost object planning</td>
</tr>
<tr>
<td></td>
<td>KKBC_KTR - Analyze cost object</td>
</tr>
<tr>
<td></td>
<td>KKC5 - Display cost object line items</td>
</tr>
<tr>
<td></td>
<td>CPTG, CPTH - Template allocation for cost objects</td>
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<tr>
<td></td>
<td>KKN1, KKN2 - Revaluation of actual prices for cost objects</td>
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<tr>
<td></td>
<td>KKPZ, KKPJ - Overhead allocation for cost objects</td>
</tr>
<tr>
<td>KK88, KK89</td>
<td>Settlement of cost objects</td>
</tr>
<tr>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>KKPHIE</td>
<td>Cost Object Hierarchy (consider using an order hierarchy KKBC_HOE_H instead and building the hierarchy nodes using transaction KKR0)</td>
</tr>
<tr>
<td>KKP2</td>
<td>Change Hierarchy Master Record (no hierarchy master record is required with order hierarchies, but the hierarchy is built dynamically using fields in the order master)</td>
</tr>
<tr>
<td>KKP4</td>
<td>Display Cost Object Hierarchy (no hierarchy master record is required with order hierarchies)</td>
</tr>
<tr>
<td>KKP6</td>
<td>Cost Object Analysis (consider using an order hierarchy KKBC_HOE_H instead)</td>
</tr>
<tr>
<td>KKPX</td>
<td>Actual Cost Distribution: Cost Objects (consider using distribution of usage variances (transactions CKMDUVMAT and CKMDUVACT instead)</td>
</tr>
<tr>
<td>KKPY</td>
<td>Actual Cost Distribution: Cost Objects (consider using distribution of usage variances instead)</td>
</tr>
<tr>
<td>KKA0, KKA1</td>
<td>WIP Calculation for cost object hierarchies</td>
</tr>
<tr>
<td>KKP5, KKPT</td>
<td>Variance calculation for cost object hierarchies</td>
</tr>
<tr>
<td>BAPI_COSTOBJECT_GETDETAIL and BAPI_COSTOBJECT_GETLIST</td>
<td></td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Do not activate Cost Objects in controlling area. Do not build a data model that requires use of general cost objects or cost object hierarchies.

Investigate alternative solutions outlined above if you are using cost objects or cost object hierarchies as you move to SAP S/4HANA.

Adjust roles and authorizations to remove deprecated transactions.

**12.12S4TWL - TRANSFER PRICES/ PARALLEL DELTA VERSIONS**

Application Components: CO-PA

Related Notes:
### Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

### Reason and Prerequisites

---

Task: Check if any currency and valuation profile is assigned to any controlling area:

Procedure: Go to implementation guide (Transaction SPRO) --> Controlling --> General Controlling --> Multiple Valuation Approaches/Transfer Prices --> Basic Settings Select 'Maintain Controlling Area' --> Assign Currency & Valuation Profile to Controlling Area

If there is any entry in column C+V Profile this implies that you are using transfer prices or COGM. If you are using an edition prior to 1610, this note is relevant for you.

To check whether parallel Activity Based Costing is active in your system, please refer to the instructions in SAP Note 2270408.

### Solution

**Business Value: Transfer Prices**

Globalization, a history of mergers and acquisitions, and stringent fiscal rules often mean that companies have structured their organization into multiple legal entities. As a consequence, many internal supply chains are represented as a series of sales processes between affiliated companies. As these organizations move to a single instance with SAP S/4HANA, transfer pricing becomes a major topic and group costing no longer requires a data warehouse approach but can be captured in the operational system. The transfer pricing capabilities are now delivered in the universal journal using a more streamlined and consistent approach than was possible in previous releases. In this context the group is represented by the controlling area and group valuation covers all material movements within that controlling area. Intercompany transfer prices are agreed between legal entities (company codes) by defining the appropriate pricing agreements. It is also possible to define transfer prices between profit centers to provide a divisional view of the organization. The capture of the group view as the material movements are posted can significantly reduce the period close tasks and provide a simplified basis for legal consolidation.
Business Value: Parallel Valuation of Cost of Goods Manufactured

Multinational organizations often report according to multiple accounting principles, such as IFRS as the global accounting standard and US-GAAP or Russian GAAP as local standards. For those countries that do not report solely according to IFRS, it is possible to set up additional ledgers for the local GAAPs and to calculate activity prices and material prices that are based on the different inputs, such as the different approaches to depreciation, pensions, and so on. This approach can significantly reduce the amount of manual effort at period close to meet the additional accounting standards.

Description

Transfer prices

The functionality for valuing the transfer of goods or services according to legal, group, or profit center valuation is supported as of SAP S/4 HANA 1610. The Functionality is not available in SAP S/4HANA 1511, on-premise edition.

Transfer prices provide parallel valuation methods for legal, group, and profit center valuation.
- The legal perspective looks at the business transactions from a company’s point of view. Pricing is driven by legal requirements and tax optimization strategies.
- Profit center valuation looks at profit centers as independent entities within the group.
- The group view considers the group as a whole. The processes are valued by eliminating intercompany/inter-profit center profits.

With the merge of FI and CO into the Universal Journal, a new approach for parallel valuations was implemented:

Transfer prices can be updated within a ledger containing all valuation views or alternatively with separate ledgers per valuation view.
Parallel delta versions for actuals in Controlling are used for statistical line items updating table COEP only.
All other actual line items updating table ACDOCA use the new data model.

Installed based customers using transfer prices in ERP can migrate to SAP S/4HANA 1610.

The migration of transactional data involves a transformation from the ERP data model to the SAP S/4HANA data model in Financials.
The necessary Customizing steps can be found in the Preparations and Migration of Customizing area under Preparations and Migration of Customizing for General Ledger.
Multiple Valuation of Cost of Goods Manufactured

The functionality of multiple valuation of cost of goods manufactured (COGM) provides parallel valuations according to multiple accounting principles. COGM using parallel accounts is not supported. COGM using parallel ledgers is available with SAP S/4HANA 1610 FPS01 for new customers and for installed base customers with SAP S/4HANA 1610 FPS02. For detailed information about COGM in S/4HANA 1610, please see the FAQ section of SAP note 1852519. This note has a powerpoint presentation attached relating to this topic.

ABC

ABC using delta versions is not supported in SAP S/4HANA (for more details see note 2270408 - Activity-Based Costing).

Business Process related information

All business processes supporting transfer pricing in ERP are re-enabled in S/4 HANA 1610.

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>Check against currency and valuation profiles during migration.</th>
</tr>
</thead>
</table>

Other Terms

Parallel valuations.

12.13S4TWL - ALE SCENARIOS

Application Components: CO-PA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270416</td>
<td>S4TWL - ALE Scenarios</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

This note is relevant if you are using ALE scenario for master and transactional data. In S/4HANA system you have a consistent data model for FI and CO and Accounts and Cost Elements are merged. In a Business Suite system you have separate tables for FI and CO documents, as well as for Accounts and Cost Elements.

The most important changes for Master Data are:

1. The attribute "G/L Account Type" has been introduced at the level of the chart of accounts.
2. G/L account master records are created for secondary cost elements, too.
3. Cost elements can no longer be maintained in a time-dependent manner.

You can do the following check in the your system:

- Enter Easy Access menu and navigate to: Tools -- ALE -- ALE Administration -- Runtime Settings -- Partner Profiles
- Select the partner profile for Logical Systems (Partner Type LS).
- Select you productive client -- If the outbound parameters contain message type GLMAST or COELEM this note is relevant for you.

The most important information for Transactional Data are:

Business Suite / S/4HANA -> S/4HANA

1. FIDCMT01 is not supported anymore
2. CODCMT01 must be executed in addition to the FI documents (even though receiving system is using Universal Journal)

Changes in respect to the ALE scenario "S/4HANA -> Business Suite" are described in note "2313879 - Distribution of documents via ALE from or to S/4HANA"

Solution

Description

Further details can be found in the following notes:

- ALE for transactional data --> see note 2313879
- Master Data ALE for GL Accounts/cost elements --> see note 2355812

Business Process related information

Required and Recommended Action(s)

- no actions required

12.14S4TWL - COST ELEMENTS

Application Components: CO-PA

Related Notes:

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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270419</td>
<td>S4TWL - Account/Cost Element</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

This note is relevant for you when your start release for the system conversion is an ERP release.

It is not relevant if your start release is S/4HANA Finance or S/4HANA.

Solution

Description

Cost elements become part of the chart of accounts. They are maintained in GL account master data. There is no separate cost element master data maintenance. Account master record includes new field for cost element category which classifies GL accounts into the following types:
- **Balance Sheet Account** - Account that is posted from business transactions. The balance of a balance sheet account is carried forward at fiscal year-end.

- **Nonoperating Expense or Income** - Income statement account that records expenses or gains from activities that are not part of the main purpose of the company, such as gains realized from financial investments by a manufacturing company.

- **Primary Costs or Revenue** - Income statement account that functions as a cost element for primary costs or revenue. Primary costs reflect operating expenses such as payroll, selling expenses, or administration costs.

- **Secondary Costs** - Income statement account that functions as a cost element for secondary costs. Secondary costs result from value flows within the organization, such as internal activity cost allocations, overhead allocations, and settlement transactions.

Accordingly GL accounts have now attributed on three levels:

- **Chart of accounts area** - Contains the data that is valid for all company codes, such as the account number.

- **Company-code-specific area** - Contains data that may vary from one company code to another, such as the currency.

- **Controlling-area-specific area** - Contains data that may vary from one controlling area to another, such as the cost element category. Only needed for accounts of the type Primary Costs or Revenue and Secondary Costs.

Default account assignments for cost elements can be set in transaction OKB9 rather than in the cost element master. The cost element attribute mix does not exist any longer. Field status groups can remain unchanged.

Existing GL accounts and cost elements are migrated into new data model automatically by a separate step within the migration process. The migration adds the new GL account category and creates for the secondary cost elements the required entries in the chart of accounts.

Separate G/L accounts for CO-FI real time reconciliation postings are no longer needed, since intercompany postings will be updated using the secondary cost element defined in Controlling rather than rolled up to reconciliation accounts.

Implications: Customer roles (menus and authorizations) need to be adjusted. To maintain primary and secondary cost elements you will need authorization for both G/L accounts and cost elements. To allow postings in specific periods ensure that postings are allowed for the appropriate
accounts in GL and in parallel for the appropriate CO business transactions (transaction OKP1).

Account determination for intercompany postings originating in Controlling is different. Some intercompany cost allocations affect Controlling only and should not be reported in legal reports, such as the balance sheet or income statement. Therefore, we recommend assigning a separate intercompany clearing account of type "Nonoperating Expense or Income" to each G/L account. This allows you to assign the sending and receiving lines to the same node in your financial statement version so that the intercompany cost allocations won't impact your financial statement. For more information, see SAP Note 2457163.

Business Process related information

The universal journal contains one field account that covers both G/L accounts and cost elements. The account master offers new account types for primary costs/revenues and secondary costs.

G/L accounts of account type primary costs/revenues require a CO account assignment (cost centers, account, project, CO-PA characteristic).

G/L accounts of account type secondary costs will be updated during direct activity allocation, assessment, distribution, settlement, and so on.

New reports such as the trial balance will display all postings (primary and secondary) by account. Classic reports will display cost elements via compatibility views. Customizing settings such as costing sheets, cost component structures, settlement profiles, allocations, and so on will continue to display cost elements.

All journal entries are recorded under G/L accounts, including primary costs (wages, salaries, depreciation, raw materials, and so on) and secondary costs (direct and indirect activity allocations, settlement, and so on). Intercompany postings originating in Controlling (such as an intercompany activity allocation) will be updated under the secondary cost element rather than a reconciliation account.

Cost element groups are still available to group accounts of type primary or secondary cost element for selection and reporting.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | KA01 - Create primary cost element |
| | KA02 - Change cost element |
| | KA03 - Display cost element |
| | KA06 - Create secondary cost element |
Default account assignments (cost center, order) will be transferred from cost element masters to table TKA3A (view using transaction OKB9).

Fiori Application F0125 - Cost Element (Fact Sheet)

Fiori Application F0126 - Cost Element Group (Fact Sheet)

**Required and Recommended Action(s)**

- Design for chart of accounts must include all profit and loss accounts and secondary cost elements that represent value flows within the company.

**12.15S4TWL - Reporting/Analytics in Controlling**

Application Components: CO-PC-1S, CO-PA-1S, CO-OM-1S

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2349297</td>
<td>S4TWL - Reporting/Analytics in Controlling</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This note is relevant if you are doing a conversion from ERP ECC 6.0 (EHP 7 or higher) to S/4 HANA.

**Description**

You want to use the new reporting tools and the universal journal for your reporting tasks, but need to understand which controlling reports are not yet covered in SAP S/4HANA. You also need to understand where the plan data for reporting resides.

The universal journal brings together the account assignments traditionally considered to be part of Controlling (cost center, order, WBS element, and so on), Profitability...
Analysis (products, product groups, customers, customer groups, regions, and so on) and Enterprise Controlling (profit center). This provides a profit and loss statement with a drill-down to the above reporting dimensions and dedicated reports by profit center, functional area, cost center, internal order, project, and market segment. The merge of accounts and cost elements means that you also effectively see CO postings in the trial balance and related reports.

From a reporting point of view this means that the conventional component barriers, no longer hold. Where a drill-down report in the general ledger could previously drill down by any dimension in FAGLFLEXT but not to the CO account assignments, with SAP S/4HANA you have more flexibility and can report on any of the dimensions listed above. Nevertheless if you continue to use a classic drill-down report (built using transaction FG11), you will only see the reporting dimensions that were previously available in the SAP General Ledger, because you are technically using a compatibility view. This means that the relevant data has to be aggregated on the fly from the universal journal for the fields in the compatibility view. These reports also currently show planning data created for the GL dimensions using transaction GP12N. Reports in Controlling also work with compatibility views. This means that they continue to display cost elements and cost element groups rather than accounts and account groups and have to aggregate the relevant fields in the universal journal on the fly. The classic reports also read planning data created using transactions KP06 (cost centers), KPF6 (internal orders) and CJR2 (projects).

To use the new reports, you will have to activate the relevant Fiori apps. There are Fiori apps for reporting on cost centers, internal orders, projects, and sales order items. The account structure for these reports can be based on the financial statement version or on the cost element groups. For cost centers, internal orders, and projects you can distinguish between real and statistical postings in reporting. A new field has been introduced to the universal journal that represents the old CO object number and works using a combination of object type = ACCASSTY (KS for cost center, OR for order, and so on) and account assignment = ACCASS (the cost center number, order number and so on). This provides the means to replace the reports formerly delivered under the Cost and Revenue Accounting InfoSystem. Nonetheless, you need to be aware that plan/actual reporting is based on SAP BPC for S/4 HANA Finance or on SAP Analytics Cloud for Planning and you will need to activate the appropriate planning applications. Planning functions exist that transfer data from the classic planning transactions to the new data structures.

The first Fiori app for reporting on target and actual costs on production orders is the Production Cost Analysis app from 1610 and can be used as an alternative to the classic target/cost analyses in ABAP list viewer. In 1809 this app was extended to provide access to the detailed costs by work center and operation and to calculate target costs on the fly for these entities. For the reporting of the variance categories on production orders (stored in table COSB) you should continue to use the classic reports or move to the event-based approach delivered in combination with Universal Parallel Accounting.
The first Fiori apps for reporting on commitments by project and cost center have been delivered in the cloud using the predictive accounting approach where commitments are stored in an extension ledger rather than the dedicated CO table (COOI). From 1809 you can switch to Fiori apps to display commitments for projects and cost centers and to report budget usage by project. The predictive accounting approach is also used to update the values from incoming sales orders to an extension ledger and to store statistical sales conditions by market segment.

For the cost centers there are not yet Fiori apps for reporting on target costs, variance categories, and intercompany eliminations. For the internal orders and projects, there are not yet Fiori apps for reporting on work in process or results analysis. For the sales orders, there are not yet Fiori apps for reporting on cost estimates or results analysis. For these reporting tasks, you will need to continue to use Report Writer/Painter or drill-down reports as appropriate. You can identify the need for such reports by checking whether entries for WIP and variances are shown in table COSB. Target costs and intercompany eliminations are identified by the value type WRTYP in table COEP. There are not yet Fiori apps to display statistical key figures on profit centers, cost centers, orders and WBS elements.

If you choose to use a mixture of new applications and classic tools, you should be aware that it is possible to retract planning data from SAP BPC to cost center planning, order planning and project planning and to fill the general ledger and profit center plan via plan integration in order to provide the appropriate plan/actual reports by cost element and that similar functions are available if you plan using SAP SAC.

There are Fiori apps for reporting on market segments based on the account-based approach. Plan/actual reporting here is also based on SAP BPC and you will need to activate the appropriate planning applications and BW content. Alternatively if you use SAP SAC for planning, plan/actual reports are built directly on the ACDOCP planning table. SAP S/4HANA includes new functions allowing you to derive the market segments at the time of postings to cost centers, orders, and projects. Such market segment information is only available in the new reporting apps.

Traditional drill-down reports, built using transaction KE30, and the line item report (KE24) will continue to work, but will only show revenues and costs where the account assignment is a CO-PA characteristic (ie values are assigned to object type EO). To see CO-PA characteristics that were derived from the account assignments in Controlling use transaction KE24N. Costing-based CO-PA continues to be supported.

The existing extractors to SAP BW will continue to work. You should also consider using the new datasource 0FI_ACDOCA_10 to extract the complete universal journal to SAP BW, where BW runs as a dedicated data warehouse, rather than in embedded mode.

Solution
Business Process related information

Analyze existing roles to determine which reporting applications are used by which business users. Check against Fiori business catalogs to determine which reporting apps can be offered to which user groups.

Analyze existing roles in SAP BW to determine whether some operational reporting applications can be moved back into SAP S/4HANA.

Check existing planning process and determine whether it is possible to move some (or even all) planning activities to SAP BPC or SAP SAC.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | All transactions available, but are making use of compatibility views |

Required and Recommended Action(s)

Most existing reports in Report Writer/Painter, drill-down reporting and ABAP List Views (ALV) will continue to work using compatibility views which will provide access to all fields available in the original report but will not provide insight over and above what was already available in SAP ERP. The merge of the cost elements and the accounts mean that only the account is stored in the universal journal but that you can use compatibility views to convert the account view back to the cost element view.

The exception are those Report Writer/Painter reports in library 5A1 (Cost Element Accounting) which read from table COFIT. The reconciliation ledger is no longer filled after the conversion to SAP S/4HANA. Here you will have to use the new reports to show the costs and revenues by G/L account and account assignment. If you select the new fields ACCASS and ACCASSTY as drill-downs you can show all postings to cost center, order, and so on as in the classic cost element reports.

Please ensure that the transactions such as CK11N (create standard cost estimate), CO01-CO03 (create/change/display production order) and CR01-CR03 (create/change/display process order) are calling ABAP List Views rather than the old Report Writer reports. To do this, choose transaction OKN0, select the tab "Report Selection" and ensure that the flags "Flexible itemization", "Flexible cost component report" and "Flexible cost display" are active.

Activate appropriate Fiori reporting apps and test with end users. Check existing planning process and determine whether it is possible to move some (or even all) planning activities to SAP BPC or SAP SAC.
12.16S4TWL - Profitability Analysis

Application Components: CO-PA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2349278</td>
<td>S4TWL - Profitability Analysis</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Task: Check if Profitability Analysis is activated in your system.

Procedure: Go to implementation guide (Transaction SPRO) --> Controlling --> Profitability Analysis --> Flows of Actual Values --> Activate Profitability Analysis. If there is an activation flag in the columns “costing-based” or “account-based” this note is relevant for you.

Solution

Options for Profitability Analysis in SAP S/4HANA on-premise edition

The SAP S/4HANA on-premise edition allows for two different profitability analysis solutions:

- Margin Analysis
  Profitability Analysis within the Universal Journal addressing the needs of internal and external accounting, supporting real-time derivation of reporting dimensions and embedded analytics.

- Costing-based CO-PA
  Groups revenues and costs according to value fields and applies costing-based valuation approaches. Data is recorded in a dedicated persistency apart from external accounting.

SAP recommends using Margin Analysis in SAP S/4HANA. Margin Analysis has been extended broadly over the past releases and we continue to conduct new developments in this area only. It is perfectly integrated into the overall concept of the Universal Journal and is therefore fully in line with our Financial Accounting development strategy. Margin
Analysis is active if there is an activation flag for 'account-based' in the IMG procedure mentioned above.

In addition to Margin Analysis, SAP also offers Costing-based CO-PA. Before the conversion to SAP S/4HANA on-premise, SAP recommends that you verify whether Margin Analysis can already cover all requirements and costing-based CO-PA can remain de-activated.

**Business Value**

The universal journal (ACDOCA) is the heart of Accounting and includes all Margin Analysis characteristics in order to allow multi-dimensional reporting by market segment. The universal journal includes columns for the standard characteristics and all additional characteristics included in an organization’s operating concern (up to sixty characteristics, including the fixed characteristics). If you have already configured an operating concern for Margin Analysis, columns will be created for each of the characteristics during migration.

The benefit of this approach is that all revenue and cost of goods sold postings are automatically assigned to the relevant characteristics at the time of posting and that allocations and settlements are made to the characteristics at period close. It is also possible to configure some expense postings such that the characteristics are derived automatically, so that material expenses assigned to a WBS element (account assignment) are automatically assigned to the characteristics entered as settlement receivers for the WBS element. This automatic derivation of the characteristics can reduce the number of settlements and allocations to be performed at period close and provide real-time visibility into spending during the period.

There are also no reconciliation issues between the general ledger and Margin Analysis. Be aware, however, that revenue is recognized at the time of invoicing and cost of goods sold when the delivery is made. If there is a time gap between delivery and invoicing, costs may be visible in Margin Analysis for which no revenue has yet been posted (matching principle). A new approach to delay the cost of goods sold posting until the invoice is posted is currently available in S4HC.

**Business Process related information**

If you currently work with costing-based CO-PA, you can continue to run both approaches in parallel, by making the appropriate settings per controlling area. The essential difference is that costing-based CO-PA is a key figure based model, rather than an account-based model. Margin Analysis covers record types F (billing documents), B (direct FI postings), C (settlement) and D (assessment) in costing-based CO-PA. A different approach is taken for record type A (incoming sales orders) where predictive accounting documents are created to represent the sales order prior to delivery and invoicing.
There is no direct migration from costing-based CO-PA to Margin Analysis. Please bear in mind the following general principles as you consider a conversion. These principles may result in a change in the valuation approach and the value flows compared to systems working only with costing-based CO-PA:

- Revenues and sales deductions are included in Margin Analysis whenever the price conditions are mapped to an account and result in postings to Financial Accounting. Statistical price conditions are included from SAP S/4HANA 1809 (or 1808 cloud edition).

- Cost of goods sold (COGS) postings are assigned to an account/cost element at the time of the goods issue from the warehouse. New functions are available to split the COGS posting to multiple accounts in accordance with the relative weight of the assigned cost components. This split can be updated with the results of actual costing from SAP S/4HANA 1809. Functions to support the matching principle between revenues and COGS are available. In sell-from-stock scenarios the COGS valuation is based on the material’s valuation price at the time of the goods issue. In drop-shipment scenarios the COGS valuation is based on the amount in the supplier invoice.

- Production order variances can be split to multiple accounts to separate scrap, price variances, quantity variances, and so on.

- Assessment cycles and settlement will update under secondary cost elements. Depending on how many value fields you used before, you may need to define additional cost elements and adjust your cycles/settlement profiles to give you the required detail.

- You may be able to replace some assessment cycles and settlements by having the system derive the characteristics at the time of posting instead of moving them from the cost center, order or project at period close.

- Top-down distribution works in Margin Analysis, but you must include the account/cost element in the selection criteria. Reference data for the distribution must be account-based.

- New fields are included in the universal journal for the invoice quantities. BADIs can be used to convert e.g. the quantity from the invoice to a base unit of measure and from there to a reporting unit. Note that only three additional quantity fields are supported, though convertible quantities (e.g. grams to kilograms) can be handled in the same field.

- It is not possible to summarize G/L fields such as profit center, partner profit center, etc, and account assignments such as WBS element and internal order.

- In many processes the system automatically sets an account assignment to a profitability segment. The availability of this account assignment may prevent the
system from deriving default account assignments e. g. from OKB9 or may change the behavior by following the substitutions defined in OKC9. Please refer to note 2516083 for further information.

- Variances for production orders are inherently available within Margin Analysis (optionally including a split into variance categories; see above), without any further configuration in the settlement profile.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | All transactions available, but some transactions (e.g. KE27) only support costing-based CO-PA. |

**Required and Recommended Action(s)**

Analyze existing reporting requirements to understand how market segment reporting is handled today. Also include transfer of profitability information to other systems, including data warehouses and consolidation. During conversion, the system will create columns in the universal journal for all characteristics in the operating concern.

If costing-based CO-PA is currently used, analyze what workarounds are being used to reconcile the profit and loss statement with costing-based CO-PA to determine whether these will be required in the future. Check whether the functions available with Margin Analysis can already satisfy your reporting requirements or whether you will continue to need costing-based CO-PA for an interim period. If combined Profitability Analysis is currently used, check whether the functions available with Margin Analysis can already satisfy your requirements.

Existing reporting transactions, such as KE30 and KE24, will continue to work, but also investigate possible usage of the Fiori apps to display information by market segment, including additional currencies and data from the extension ledgers.

**Creation of Profitability Segments and Account Determination for COGS**

If you only used costing-based CO-PA but no Margin Analysis before the conversion you need to understand when a profitability segment is created in the sales process and how COGS are posted during the delivery. In Margin Analysis the billing and the delivery are recorded as separate documents and both journal entries are assigned to a profitability segment. This means a change to include the assignment to a profitability segment in the COGS posting and the need to change the account determination to select an account/cost element.

- The profitability segment is always derived for the sales order item and referenced during the delivery. Since the delivery document is now assigned to a profitability segment, you will need to ensure that you are updating an account of type P (primary costs and revenues) rather than an account of type N (non-operating expenses). Check the account determination for transaction GBB (Offsetting...
Entry for Inventory Posting) and account modification constants VAX and VAY. COGS posted before the conversion are posted without a cost element (type N), but after the conversion with a cost element (type P). To avoid issues, assign an account of type N to account modification VAX and an account of type P to account modification VAY (Margin Analysis works with VAY as a default).

- If you only worked with costing-based CO-PA and did not use incoming sales orders (record type A) prior to the migration, you will have open sales order items and delivery documents with no assignment to a profitability segment, even though this is required once Margin Analysis is active and the system will issue a message that the assignment to a profitability segment is missing if you reschedule the sales order item or post a goods issue after the migration. You can use transaction KE4F to derive the missing profitability segments for a small numbers of sales order items. For larger volumes of data, run the transaction in parallel over multiple packets of different sales orders (see SAP Note 2225831).

- Where sales orders are partially delivered at the time of conversion, it is recommended to cancel the deliveries and create new ones as this will result in the profitability segment being selected with reference to the sales order during delivery. However, this solution is not practical where goods movements have already been posted with reference to the delivery. The COGS for these goods movements will not be visible in Margin Analysis.

- If you choose to use the same G/L account for account modification constants VAX and VAY, you should also cancel all deliveries posted prior to the conversion and create new ones to ensure that the assignment to the profitability segment is correct.

Other Terms

Account-based CO-PA Margin Analysis S/4HANA S/4 HANA Migration Profitability Analysis
13. Cost Management and Profitability Analysis

13.1 S4TWL - Profitability Segment Number Change of Type

Application Components: CO-PA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3320010</td>
<td>S4TWL - Profitability Segment Number Change of Type</td>
</tr>
</tbody>
</table>

**Symptom**

You are using CO-PA and are upgrading from S/4 HANA Release 2022 or earlier to S/4 HANA Release 2023 or a later release.

The type of Profitability Segment Number field has been changed from type NUMC length 10 to type CHAR length 10.

As a consequence, you now have more information on the profitability segment and therefore more profitability segments in total.

If you are using the profitability analysis CO-PA and you are upgrading to S/4 HANA Release 2023 or a later release, the change of the underlying data type of the Profitability Segment Number could be relevant.

**Reason and Prerequisites**

If you are using profitability analysis CO-PA and you are upgrading to S/4 HANA Release 2023 or later release, the change of the underlying data type of the Profitability Segment Number could be relevant.

**Task**: Check if Profitability Analysis is activated in your system.

Procedure: Go to implementation guide (Transaction SPRO) --> Controlling --> Profitability Analysis --> Flows of Actual Values --> Activate Profitability Analysis. If there is an activation flag in the columns “costing-based” or “account-based” this note is relevant for you.

Due to the limited number of possible values, the technical type of Profitability Segment Number field has been changed from *numerical character* (type NUMC) length 10 to type *character* (type CHAR) length 10. Say, after the upgrade to S4HANA 2023 the profitability segment number field is represented by a different technical type. As a
consequence, the ABAP processing logic dealing with profitability segment numbers has to be prepared to deal with these types of non-numeric characters values.

The domain change is relevant for Margin Analysis as well as Costing-Based profitability analysis.

**IS INITIAL Checks**

Even so non-numerical characters do not yet occur in your system, one immediate consequence of the change is the so called *initial value* of the profitability segment number. Since in the ABAP processing logic this initial value typically represents an undecided or not yet defined value, the check for the initial value is a very frequent operation - in SAP and customer ABAP coding.

Due to the technical change the initial value of the Profitability Segment Number field changes from 000000000000 to space with the upgrade to S/4 HANA Release 2023. Since the existing profitability segment numbers will remain in use, there will be two different "*initial" values in future. As the ABAP processing logic has to deal with both types of profitability segment numbers, say, numbers created before and after the upgrade to S/4 HANA Release 2023, both initial values have to be checked.

Furthermore, other less frequent consequences of the technical type change could occur, a detailed list of the different technical consequences of the type change are explained in SAP note 3320427.

**Solution**

**13.1.1 Business Process related information**

The change of the technical type of Profitability Segment Number field has no business related impact.

**13.1.2 Required and Recommended Action(s)**

To avoid any errors in system behaviour due to the change of the type in profitability segment field, you need to adapt your customer coding for this change. The adaption of the initial value check needs to be carried out, regardless of whether you will be using the additional alphanumeric profitability segments or not.

In order to identify coding that needs to be adapted, the Code Inspector checks is executed as part of the related simplification item. If you are using the decommissioned CDS field ProfitabilitySegment in customer defined CDS Views, you must switch to the replacement field ProfitabilitySegment_2.
This SAP Note only covers the actions that all customers must take. *For customers that require more profitability segment numbers see SAP Note <needs to be created>.*

**What to do before the upgrade**

Please ensure that you update the check logic to the most recent version, by implementing all relevant, new notes from SAP note 2436688. Otherwise you might get wrong or missing check results.

Independent whether you are using initial check or select statement; please investigate if you have set PAOBJNR to empty in your own (customer) coding. The change of the underlying technical domain in the ABAP dictionary could lead to changed behavior when moving profitability segment numbers into different types or when doing numerical calculations. All of these possible changes due to the technical change are addressed by the Code Inspector check variant SAP_COM_FIELD_EXT_1 which is executed as part of the simplification item.

As described above, the initial value of the field PAOBJNR will be space rather than 0000000000 for new profitability segments. However old values on the database will not be updated during the upgrade process. This means that all code that checks whether field PAOBJNR is empty needs to check for both values:

**ABAP Code Examples**

ABAP code such as

```abap
data: lv_paobjnr type rkeobjnr.

... 

" check if prof. segment is initial 
IF lv_paobjnr IS INITIAL.

... 

ENDIF.
```

has to be changed to

```abap
data: lv_paobjnr type rkeobjnr.

...

" check if prof. segment is initial using predefined constant values 
" for either the new or the old initial value
```
IF ( lv_paobjnr = if_fco_copa_paobjnr=>c_init 
    OR lv_paobjnr = if_fco_copa_paobjnr=>c_zero ).

ENDIF.

Likewise the IS NOT INITIAL check has to be changed as follows:

data: lv_paobjnr type rkeobjnr.
...

" check if prof. segment is not initial
IF lv_paobjnr IS NOT INITIAL.
...

ENDIF.

has to be changed to

data: lv_paobjnr type rkeobjnr.
...

" check if prof. segment is not initial using predefined constant values
" for either the new and the old initial value
IF ( lv_paobjnr <> if_fco_copa_paobjnr=>c_init
    AND lv_paobjnr <> if_fco_copa_paobjnr=>c_zero ).
...

ENDIF.

**Other Terms**

Domain RKEOBJNR. Data element RKEOBJNR. Global field ProfitabilitySegment.

Decommissioning of CDS field ProfitabilitySegment. Replace usages with ProfitabilitySegment_2
14. Financials - General Ledger

14.1 S4TWL - Profit Center and Segment Reorganisation

Application Components: FI-GL-REO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3087195</td>
<td>Profit center reorganization and segment reorganization</td>
</tr>
</tbody>
</table>

Symptom

The profit center and segment reorganization of ECC are not available in SAP S/4HANA. The business functions FIN_GL_REORG_1 and FIN_GL_REORG_SEG cannot be activated in SAP S/4. When you create a new reorganization plan, the system issues an error message.

With Release SAP S/4HANA 2022, there is a new solution for profit center reorganization. This new solution does not have to be activated using a business function, and can be configured and used directly, instead. The new solution is part of the SAP S/4 product and does not require an additional license.

With Release 2022, the new profit center reorganization solution does not yet include the full scope of functions of the reorganization solution in ECC.

Segment reorganizations are not yet possible in SAP S/4.

Reason and Prerequisites

Due to the changed architecture of the finance applications in SAP S/4, the ECC profit center and segment reorganization solution cannot be supported. The mentioned business functions cannot be activated. As of Release 2022, please use the new profit center solution.

Solution

SAP plans to enhance the new solution for reorganizations. Due to the complexity of the solution, there will be a phased rollout starting with functions for profit center reorganization (as of OP2022).

For information about the SAP Road Map, see the following link:
Other Terms

Profit center reorganization, segment reorganization, reorganization, organizational change

14.2 S4TWL - GENERAL LEDGER

Application Components: FI-GL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270339</td>
<td>S4TWL - General Ledger</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Business Value

The universal journal significantly changes the way transactional data is stored for financial reporting. It offers huge benefits in terms of the ability to harmonize internal and external reporting requirements by having both read from the same document store where the account is the unifying element.

You still create general journal entries in General Ledger Accounting, acquire and retire assets in Asset Accounting, run allocation and settlement in Controlling, capitalize research and development costs in Investment Management, and so on, but in reporting, you read from one source, regardless of whether you want to supply data to your consolidation system, report to tax authorities, or make internal management decisions.

Description

General Ledger in S/4H is based in the Universal Journal; the line items are stored in the new database table ACDOCA, optimized to SAP HANA.
You can migrate Ledgers of New General Ledger of the Business Suite or the Classic General Ledger GL to the Universal Journal in S/4H. Please note, that the number of Ledgers and the configuration of its currency will stay; it is not possible to introduce new ledgers or new currencies during the migration to S/4H. If Classic General Ledger was used, the ledger '00' is migrated to the new leading ledger '0L' of the universal journal.

As Controlling is now part of the Universal Journal as well, now all CO internal actual postings are visible in General Ledger as well. The secondary cost elements are part of the chart of accounts. There is no longer a need for Co realtime integration for transfer of secondary CO postings to NewGL or the Reconciliation Ledger of Classic GL.

It is not possible to introduce new currencies in GL during the migration to S/4H. The order (resp. technical fieldnames in table ACDOCA) of the currencies might change during the migration from Classic or New GL, as the the currency type of the controlling are will determine the second currency (fieldname KSL), but the compatibility view for classic or New GL guarantee that the reporting based on these structures shows the same result as before.

Classic Report Writer/Painter and drilldown reports will continue to show the data from the universal journal in separate views, so reports in Financial Accounting will show only the fields formerly available in FAGLFLEXT and reports in Controlling will show only the fields formerly available in COSP/COSS. To see the combined data you are recommended to work with the new Fiori reports that show all the fields in the universal journal.

The upgrade to S/4HANA is not a 'normal' upgrade but a system conversion which comes along with some incompatible changes. The incompatible changes refer to the usage of summary and index tables and the update of table BSEG and further changes are described in detail in the note 2431747 "General Ledger: Incompatible Changes in S/4HANA compared to classic ERP releases".

**Required and Recommended Action(s)**

Mandatory application configuration steps related to General Ledger in the IMG (transaction SPRO):

- **Folder Preparations and Migration of Customizing**
  Please use the step "Check Customizing Settings Prior to Migration" (transaction FINS_MIG_PRECHECK) and clean up all inconsistencies prior to the migration of Customizing and ransactional data.

- **Folder Preparation and Migration of Customizing for the General Ledger**
  The step "Migrate General Customizing" migrates all important customizing around ledgers, currencies and CO integration. It is important to carry out this step before manual changes are done in the img activities below this activity. Therefore we recommend to go though all activites of "Preparation and Migration
of Customizing for the General Ledger" in its sequence in the UI. As last step perform "Execute Consistency Check of General Ledger Settings" (transaction FINS_CUST_CONSCHK). If this step yields errors for productively used company codes, please solve these errors before you start the migration of transactional data in Folder Data Migration. If you are getting errors for non-productively used company codes, you can exclude these by activating the flag "Template" in view V_001_TEMPLATE (transaction SM30).

It is recommended to investigate the use of the new reports that show all fields in the universal journal to achieve maximum benefit from the conversion.

If you have not used the New General Ledger before, that means that you still have used the Classic General Ledger before migrating to SAP S/4 HANA, please be aware that the handling of the Foreign Currency Evaluation, the Line Item Display and the Balance Carry Forward has slightly changed. Please make yourself familiar with the new handling of them in NewGL before the Migration.

14.3 S4TWL - SAP HANA ODP ON HANA CALC VIEW-BASED REPORTING

Application Components: FI-GL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270360</td>
<td>S4TWL - Calc View-Based Reporting (HANA live)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With Simple Finance 1.0, one reporting option was to use Embedded BW functionality based on ODPs, which in turn use Calculation Views for real time data access. A strategic decision was taken to switch the technology from Calculation Views to CDS Views with SAP S/4HANA Reporting scenarios built with these ODPs. Simple Finance installations 1.0 or 1503 have to be rebuilt manually with CDS Views in SAP S/4HANA and Simple Finance 1602 SP 1602.
Business Process related information

It should be possible to rebuild all existing reporting scenarios with CDS Views.

Required and Recommended Action(s)

If such ODPs are used, time and resources should be planned for migration to CDS Views.

Customers will have to rebuild the reporting scenarios using CDS Views. End users will have to redo personalization and variants of reports.

14.4 S4TWL - Closing Cockpit with S/4 HANA OP

Application Components: FI-GL-GL-G, CA-GTF-SCM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2332547</td>
<td>S4TWL - Closing Cockpit with S/4HANA OP</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

**Task:** Check if the customer uses any of the Business Functions FIN_ACC_LOCAL_CLOSE, FIN_ACC_LOCAL_CLOSE_2, FIN_ACC_LOCAL_CLOSE_3 are active.

**Procedure:** Use transaction SFW5 to list active Enterprise Business Functions.

**Rating:**

If at least one transaction codes has been used -> YELLOW

If none of the transaction codes has been used -> GREEN

**Solution**
Description:

The functionality of the standard Closing cockpit (without license) is available, but defined as "not the target architecture" in SAP S/4HANA 1511, 1610 or subsequent releases. The Business Functions FIN_ACC_LOCAL_CLOSE, FIN_ACC_LOCAL_CLOSE_2, FIN_ACC_LOCAL_CLOSE_3 (requiring a license for SAP Financial Closing cockpit) are flagged as obsolete in S/4HANA OP.

Business Process related information

If any of the Business Functions listed above are active, instead of using the classical Closing cockpit,

- under SAP S/4HANA 1610 OP consider to use the Add-On Financials Closing Cockpit 2.0,
- under SAP S/4HANA OP 1710 ff. use the SAP S/4HANA Financial Closing cockpit.

Other Terms

SYSTEM_ABAP_ACCESS_DENIED

14.5 S4TWL - Currencies in Universal Journal

Application Components:FI-GL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2344012</td>
<td>Currencies in Universal Journal</td>
</tr>
</tbody>
</table>

Symptom

You are doing new installation of SAP S/4HANA or a system conversion to SAP S/4HANA. All currency configurations can be migrated to the universal journal of S/4HANA.

This note provides information on the new configuration capabilities for parallel currencies in FI and CO.

Reason and Prerequisites

This note is relevant, if you are use FI / CO in S/4HANA.
Situation in ECC:

In the Business Suite (ECC) there used to be up to 3 parallel currencies in FI (table T001A / tx OB22) and 2 parallel currencies in CO (TKA01 / tx OKKP): CO area currency and object currency.

The currencies of non leading ledgers in NewGL (T882G) were a subset of the currencies in the leading ledger (T001A).

One of the CO currencies needed to be the local currency (CT 10), but it was not necessary that the other currency in CO was also configured in FI.

Solution

Situation in S/4H:

With the universal journal and the common line item table ACDOCA for FI and CO, there is also a central currency configuration for the universal journal. As the currency configuration depends on the universal journal ledgers, there is a combined view cluster for ledgers and currencies, tx FINSC_LEDGER.


Overview on amounts fields of the Universal Journal (as of S/4H 1610 and later releases and S/4H Finance 1605)

<table>
<thead>
<tr>
<th>ACDOCA Fieldname</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>WSL</td>
<td>Amount in Transaction Currency (Document Currency)</td>
</tr>
<tr>
<td>TSL</td>
<td>Amount in Balance Transaction Currency</td>
</tr>
<tr>
<td>HSL</td>
<td>Amount in Company Code Currency (Local Currency)</td>
</tr>
</tbody>
</table>

Original currency of the transaction, not contained in balances, as it might happen that different currencies cannot be aggregated; corresponds to BSEG-WRBTR.

Amount converted to the currency of the G/L account, in order to allow aggregation on G/L account level; corresponds to BSEG-PSWBT.

Currency of the company code; corresponds to BSEG-DMBETR in FI and object currency in CO (except CO area currency type is local currency).
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>KSL</td>
<td>Amount in Global Currency</td>
<td>Currency type configured in the controlling area (TKA01-CTYP)</td>
</tr>
<tr>
<td>OSL</td>
<td>Amount in Freely Defined Currency 1</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>VSL</td>
<td>Amount in Freely Defined Currency 2</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>BSL</td>
<td>Amount in Freely Defined Currency 3</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>CSL</td>
<td>Amount in Freely Defined Currency 4</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>DSL</td>
<td>Amount in Freely Defined Currency 5</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>ESL</td>
<td>Amount in Freely Defined Currency 6</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>FSL</td>
<td>Amount in Freely Defined Currency 7</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>GSL</td>
<td>Amount in Freely Defined Currency 8</td>
<td>Currency configured per ledger and company code in tx finsc_ledger</td>
</tr>
<tr>
<td>CO_OSL</td>
<td>Amount in Object currency of CO</td>
<td>Object currency of CO, only if it is really the object currency (70)</td>
</tr>
</tbody>
</table>

WSL, TSL, HSL and KSL mandatory currencies in all ledgers.

KSL is filled, if the company code is assigned to a controlling area. The currency type for KSL is defined by the setting in the controlling area.

The second and third parallel currencies of FI (BSEG-DMBE2 or BSEG-DMBE3) correspond to 2 amount fields of KSL - GSL according to configuration in tx FINSC_LEDGER.

Table BSEG is not (and will not be) extended and still contains only 3 parallel currencies; the BSEG relevant currency types can be configured in the overview screen of the company code assignment in tx FINSC_LEDGER in the columns on the right side (1st / 2nd / 3rd FI Currency). Here you can choose from the configured currency types the BSEG relevant currency types. Currency types in customer name space are not allowed as BSEG relevant currency.

When a currency type is marked as BSEG relevant in the leading ledger (2nd or 3rd FI Currency) and this currency type is also configured in a non-leading ledger, then it needs to be a BSEG relevant in the non leading ledger as well.

**Overview on supported processes for currency fields**
Our goal is to implement full process integration of all currency fields in all processes in accounting. With S/4H 1610, 1709 and 1809 (or S/4H Finance 1605) we achieved the following coverage:

<table>
<thead>
<tr>
<th>Example configuration</th>
<th>HSL</th>
<th>KSL</th>
<th>OSL</th>
<th>VSL</th>
<th>BSL</th>
<th>CSL</th>
<th>DSL</th>
<th>ESL</th>
<th>FSL</th>
<th>GSL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal Journal (ACDOCA)</td>
<td>10</td>
<td>30</td>
<td>40</td>
<td>50</td>
<td>60</td>
<td>Z1</td>
<td>Z2</td>
<td>Z3</td>
<td>Z4</td>
<td>Z5</td>
</tr>
<tr>
<td>BSEG and Fixed Asset Accounting</td>
<td>10</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Ledger</td>
<td>10</td>
<td>30</td>
<td>40</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Controlling</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supported Processes (for example config.)</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Realtime Currency Conversion</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Balance zero per Journal Entry</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Open Item Management (FI-AP, FI-AR, FI-GL)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Foreign Currency Valuation</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Regrouping</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>GL Allocations (Assessment and Distribution)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>CO Allocations (Assessment and Distribution)</td>
<td>X</td>
<td>X</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>CO-PA Allocations</td>
<td>X</td>
<td>X</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Fixed Asset Accounting</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Material Ledger</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>CO Settlement</td>
<td>X</td>
<td>X</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>CO Reposting</td>
<td>X</td>
<td>X</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

This means that all journal entry items are converted in the accounting interface for all configured currencies, regardless of the source where the business transaction originates from. In the accounting interface the journal entry is converted according to the conversion settings in tx FINSC_LEDGER (exchange rate type, ...), and balance zero per journal entry is guaranteed.

Some processes require more than a mere document wise currency conversion with the current rate. These processes require that the amounts are converted with rates of the historical data being processed. This is not yet supported for all processes. We achieved this for open item management in FI-AP, FI-AR, and FI-GL or for CO and GL allocations (marked with X in the above table), but not yet for Fixed Asset depreciations or CO settlements.
1: As a fallback the amounts are converted with the current exchange rate. In such a case there might remain a difference caused by rounding effects or different exchange rates for the amount fields which are marked with '1' in the above table.

2: Since Release OnPrem 2020 CO Settlement supports all ACDOCA currencies, if this is activated in the settlement profile.

3: Since Release OnPrem 2021 CO-PA Allocation are available as part of Universal Allocation. Universal Allocation supports all currencies; the classic CO-PA Allocations still support 10 and 30 only.

4: CO Allocations can treat all 10 amounts field precisely, if you include amount field in the cycle definition, or otherwise convert with current exchange rates. Also in cross company or in the COGM scenario, the amounts are converted with current exchange rates.

**Overview on supported reporting for currency fields**

With S/4H 1610 and later releases the currencies that are not stored in BSEG can be displayed in following UIs:

<table>
<thead>
<tr>
<th>Description</th>
<th>Transaction Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display Document</td>
<td>FB03</td>
</tr>
<tr>
<td>Display Document in General Ledger View</td>
<td>FB03L</td>
</tr>
<tr>
<td>Display G/L Account Balances</td>
<td>FAGLB03</td>
</tr>
<tr>
<td>Display G/L Account Line Items</td>
<td>FAGLL03</td>
</tr>
<tr>
<td>Line Item Browser</td>
<td>FAGLL03H</td>
</tr>
<tr>
<td>Display G/L Account Line Items</td>
<td>Fiori App</td>
</tr>
<tr>
<td>Journal Entry Analyzer</td>
<td>Fiori App</td>
</tr>
<tr>
<td>Audit Journal</td>
<td>Fiori App</td>
</tr>
<tr>
<td>Display Financial Statement</td>
<td>Fiori App</td>
</tr>
</tbody>
</table>

In addition the new analytics with Fiori UI based on CDS Views supports all currencies of the Universal Journal. Note 2579584 contains details on the CDS based analytics.

**Usage of new currencies**

New Installations

- You can configure the new currencies in the universal journal.
• Please carefully consider which currencies are integrated with BSEG, FI-AA, CO, ML, FI-AA, and which is generically converted.

Migration of Customer Installations

• Migration from ERP, SFIN 1503 or S/4H 1511
• Old currency configuration is migrated to universal journal without changes of the used currencies.
• S/4H Migration is not able to introduce new currencies.
• ERP Installations using transfer pricing make use of the new currency fields, as all currencies/valuations combinations are migrated to the same ledger.
• Usage of additional currencies is not possible without a conversion project. You must not simply configure additional currencies, are the existing data does not contain the new currencies, and some open processes would not work properly, if the currency configuration was changed.
• Since S/4Hana OP 1809 it is possible to introduce a freely defined currency,(but not a BSEG relevant currency!). You find the conversion tools in the IMG tree below Financial Accounting Global Settings - Tools - Manage Currencies.

Currency configuration in previous S/4H releases

In S/4H 1511 there were only 2 freely defined currencies (WSL, TSL, HSL, KSL, OSL, VSL, FSL) . There was no realtime conversion available for the customer defined currency types. Foreign currency valuation could be used as a substitute for the missing realtime conversion.

In SFIN 1503 there are amounts fields (WSL, TSL, HSL, KSL, OSL, VSL) to cover the CO and FI amount fields of ECC.

14.6 S4TWL - Manual Accruals (Accrual Engine)

Application Components: FI-GL-GL-ACE, FI-GL-GL-AAC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2582883</td>
<td>S4TWL - Manual Accruals (Accrual Engine)</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

This note is only relevant if you are using the application Manual Accruals: The Manual Accruals application is based in the reuse tool Accrual Engine.

Solution

Business Value

With release S/4HANA 1809, a new Accrual Engine has been developed. The new Accrual Engine is called S/4HANA Accrual Engine.

The S/4HANA Accrual Engine is seamlessly integrated with the General Ledger. The following features are available in the S/4HANA Accrual Engine:

• The Accrual Engine supports all currencies of the General Ledger.
• Postings can be performed on ledger level instead of only accounting principle level.
• Complex postings are supported, for example the posting of exchange rate differences: An accrual posting can now contain more than two line items.
• The number of database tables has been reduced. For example the original document of the accrual postings is now contained in the Universal Journal Entry, table ACDOCA.

Description

The old Accrual Engine still exists and is still being used by applications like

• Accruals For Rights Management
• Revenue Recognition For License Sales
• Accruals For License Acquisitions
• Accruals For Real Estates

But the application Manual Accruals is the first application that has been adopted to the new S/4HANA Accrual Engine:
After upgrading to release S/4HANA 1809 the application Manual Accruals is only available based on the S/4HANA Accrual Engine.

As a consequence, after upgrading to release S/4HANA 1809 you need to migrate the content of the old database tables of the old Accrual Engine into the new tables of the
S/4HANA Accrual Engine. This affects customizing tables as well as transactional tables of the Accrual Engine.

**Required Actions**

The migration of the Accrual Engine data can be performed after you migrated the General Ledger data to S/4HANA.

Mandatory application configuration steps related in the IMG (transaction SPRO):

1. Applying migration relevant SAP Notes mentioned in step 3 of SAP Note 2795791.

2. As a first step you migrate the customizing of the Accrual Engine.
   You will find the corresponding IMG activity in the following IMG folder:
   Conversion of Accounting to SAP S/4HANA -> Preparations and Migration of Customizing -> Preparations and Migration of Customizing for Accrual Engine.
   In this folder you also need to create a mass data project. This project is needed for the migration of the transactional data of the Accrual Engine: The transactional data consist of Accrual Engine postings (table ACEPSOIT) and accrual object data (tables ACEOBJ, ACEDS_... and ACEPS_...).
   Both, the migrated customizing and the mass data project creation are recorded in a customizing transport.

3. Afterwards you perform the migration of the transactional data of the Accrual Engine by executing the mass data project:
   You will find the corresponding IMG activity in the following IMG folder:
   Conversion of Accounting to SAP S/4HANA -> Activities after Migration -> Migration of Accrual Engine Data.

4. After the customizing transport was imported in the productive system, you need to execute the mass data project in the productive system also.
   Note that you do not need to perform the migration of the Accrual Engine customizing in the productive system: The migrated customizing was imported by the customizing transport. Only the migration of the transactional data needs to be performed in each system and client separately.

The migration of the Accrual Engine does not require a system down time: You can perform this migration even if the system is already being used productively: The only restriction is that activities that affect the Accrual Engine data, like accrual postings, creation or change of accrual objects is not possible as long as you did not finish the Accrual Engine migration.

**How to Determine Relevancy**
You can easily check whether you are using the application Manual Accruals or not: If the database table ACEOBJ contains entries that fulfill the condition COMP = 'ACAC', then you need to perform the above mentioned migration steps. Exceptional case: If the entries in this table are obsolete from a business point of view, then you do not need to perform the migration of the Accrual Engine.

Further Information

The migration process, new features and incompatible changes of Manual Accruals in S/4HANA 1809 are described in the attached presentations.

These presentations are also available as pdf document. You can access it using the following URL:


Other Terms

ACE, ACAC.

14.7 S4TWL - Amount Field Length Extension

Application Components: FI-GL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2628654</td>
<td>S4TWL: Amount Field Length Extension</td>
</tr>
</tbody>
</table>

Symptom

Selected currency amount field lengths and related data types have been extended.

This is relevant, if you are converting from SAP ERP ECC60 or upgrading to SAP S/4HANA On-Premise 1809 or higher.

Reason and Prerequisites

In SAP S/4HANA, currency amount fields with a field length between 9-22 including 2 decimals have been extended to 23 digits including 2 decimals. In addition to currency amount fields, selected data elements of DDIC type DEC, CHAR, and NUMC with varying lengths and decimal places that may hold amounts have been affected. This feature is available in SAP S/4HANA, on-premise edition 1809 and higher releases.
Solution

Table of Contents:

- **Introduction**
- **Motivation and Scope**
- **Consistent Usage in System-Internal Code**
  - Decoupling
  - Code Adaptation
  - Storage of an Amount on the Database
  - Internal Interfaces
  - Write To List
  - Strict Type Checks
  - External Interfaces
- **System Settings to Activate the Provided Amount Field Length Extension in Customizing**
- **Functions that may use the Provided Amount Field Length Extension**

**Introduction**

SAP S/4HANA can support extended amount fields. We have adapted the appropriate related SAP development entities (domains, data elements, structures, table types, and transparent tables, external and internal interfaces, user interfaces, and so on) accordingly. There are some scenarios where it will be required for you to adapt your code. In a multi-system landscape, you must decide if and when to activate the provided amount field length extension in customizing, as this will impact how the system communicates compatibly within a system landscape. To ensure consistent behavior, the provided amount field length extension must be explicitly activated in customizing. Note that the extended field length in the data dictionary is not influenced by this activation. Refer to the below in section **System Settings to Activate the Provided Amount Field Length Extension in Customizing** for details.

This note focuses on what is affected by the amount field length extension and what adjustments are necessary to ensure that the system remains technically and functionally stable. The different aspects of the amount field length extension in SAP S/4HANA are described in the following sections. Consider the restrictions outlined here and in the notes listed under References.

**Motivation and Scope**

The amount field length extension was developed to meet the requirements of banks and financial institutions to post financial documents representing balance sheet information with amounts that exceed what the previous definition in SAP ERP ECC60 and previous S/4HANA releases support. Therefore, we extended the amount fields within the general
ledger and Controlling application areas. As part of these changes, we changed data elements of other application components with shared dependencies.

The fields that were subject to extension were primarily data elements of type CURR with a defined length between 9 and 22, including 2 decimal places. Additionally, data elements of type DEC, CHAR, and NUMC that were used to store amounts were also extended.

While this scope was limited, there was a broad usage of the extended data elements across other applications that will not use extended amounts, for example Logistics. We decoupled the data elements that would be extended by creating copies of the original with the original domain and technical attributes, and replaced them in all data dictionary usages outside of the areas that were planned for extension. We extended the original data elements by exchanging the existing shorter domains with new longer domains. Conversion routines were created and assigned to the longer domains to limit the maximum value permitted as screen input where the provided amount field length extension is not activated in customizing.

To maintain the stability of the applications, certain adjustments were required for data dictionary objects, ABAP source code, dependent user interfaces, as well as in both internal and external interfaces.

See the attached document for a list of application components with extended amounts.

Assumptions

- Data elements of type CURR with more than 2 decimal places are generally not related to currency amounts.
- Any currency amount with a field length of less than 9 digits including 2 decimals was not intended for long amounts in the first place.

At a high level, there are the below impacts to your objects due to the extended amount field lengths:

1. There are code changes that may be necessary to adapt, irrespective of whether you will support the provided amount field length extension or not. This is necessary to avoid runtime errors and syntax errors once you upgrade to S/4HANA 1809 or higher. Refer to notes 2628040, 2610650 for more information.
2. If you choose not to support the provided amount field length extension in your code, although you interact with modules that do support and/or use extended amounts, adjustments may be necessary to ensure that your code is not impacted. Refer to notes 2628040, 2628699, 2628704, 2628706, 2628724 for more information.
3. If you choose to support the provided amount field length extension, enablement is necessary and adjustments should be made. Note, however, that your enablement is directly dependent on the areas where the provided amount field length extension is supported in SAP S/4HANA 1809 or later. Refer to notes 2628040, 2610650, 2628617, 2628641, 2628699, 2628704, 2628706, 2628714, and 2628724.

In the following section, we will provide an introduction to what has been done to enable the extended amounts in S/4HANA, and explain how it affects your code. For more information, see attached notes under section "References".

**Consistent Usage in System-Internal Code**

**Decoupling**

The consistent behavior of the SAP system is secured through the use of data dictionary objects, data elements and domains. The relevant internal fields that are typed to these data elements derive their technical details (for example, data type, length, decimals, etc.) from the domain. Cross-usages of the data elements to be extended existed between the application areas that will use the provided amount field length extension, and the application areas that will not use extended amounts. To maintain data integrity and compatibility between these areas while preventing any impact on user interfaces, database entries, external interfaces, etc., the cross-usages had to be identified and decoupled. We created new data elements and introduced them in the data dictionary objects in the areas without the provided amount field length extension.

For more information, see related SAP Note 2628040.

**Code Adaptation**

To facilitate the correct handling of the extended amount fields within the ABAP coding, the specific circumstances and requirements of each possible scenario were considered. Overflow errors could occur if an extended amount is moved into a shorter amount. Syntax errors and report generation errors can be identified though S/4HANA Readiness code scans.

The decoupling activities together with the amount field length extension created type conflicts due to a mismatch between data elements assigned to each other in one statement. All amount fields referring to an extended data element had to be checked to ensure that these fields were long enough to hold the extended amounts. If the dependent fields were also extended, all usages of these fields had to be analyzed as well. Extending one field typically triggered follow up changes. Overall, the complete data flow had to be analyzed to identify all places where an extended amount is moved into a shorter amount field. Such analysis must also be done in your custom coding.
The described changes have also been applied to local interface signatures, including function modules, class methods, form routines, BAdIs and so on. The types and structure parameters of these local calls were also extended wherever an amount field exists. External interfaces were also adapted. However, a different approach was taken for these remote calls.

For more information, see related SAP Note 2610650.

Storage of an Amount on the Database

By extending the data elements of an amount field, the field length on the database is also extended. Although the maximum length is larger, the manner in which the content is stored has not changed. There is no difference in how an amount is stored on the database in SAP S/4HANA 1809 compared to previous versions of S/4HANA as well as in the SAP Business Suite. No data conversions are needed unless an amount is part of concatenated content. Concatenation in the code uses the complete technical length of the field, which is now longer, and is also reflected in the database content.

Internal Interfaces

Interface related conflicts will occur if the lengths of actual and formal parameters are no longer the same. These type conflicts were found in the internal interface calls between different applications as well as in the interface calls within the same application. A variance in the formal and actual parameters will result in a syntax error or a short dump at run time. Resolving local interface conflicts depends mainly on the direction of the call (are the caller and receiver using extended amounts?) and data flow (importing, exporting, using, changing, or returning parameter) within each call had to be analyzed. The parameter could either be a structure/table or it could be a single field. For more information, see related SAP Note 2628699.

Write Statements for List Output

When amount fields that are extended are used in WRITE statements for list processing, they may cause the list to go out of alignment and overlapping values independent of whether the provided amount field length extension is active or not. Data can be truncated or completely lost if no adjustment is made. Other write statements might need adjustments in case of multi-row output, printing column headings, or splitting the preparation of one row into multiple WRITE statements. For more information, see related SAP Note 2610650.

Strict Type Checks

There are statements within the ABAP code that require strict type checks where data elements assigned to each other must have the same data type and length. A syntax error will be issued when the fields within the statement are incompatible. Conflicts will occur...
if an extended amount is used in this type of statement within an application area that is not using the provided amount field length extension. There is no implicit type conversion done in this case. Adjustments are necessary to avoid syntax errors. This can be solved with the help of an auxiliary variable or by changing the type to the copied data element. For more information, see related SAP Note 2610650.

**External Interfaces**

A typical ERP system is connected to miscellaneous internal and external (SAP or non-SAP) systems. Accordingly, an S/4HANA system with the provided amount field length extension activated in customizing must consider that not all related systems will be able to handle extended amounts. Furthermore, it cannot be assumed that all ERP systems in your landscape will be converted or upgraded to SAP S/4HANA 1809 at the same point in time. That means that the external interfaces that are used for integration must be able to function as in the previous versions of the interface.

This is especially relevant for the commonly used integration techniques BAPI, RFC, and IDoc as these techniques rely on a fixed length and sequence of fields in the transmitted data. Simply extending the amount fields in these interfaces would technically break how they interact with the inbound and outbound calling programs.

As mentioned above, we used a different approach for internal and released external APIs. We have decided to provide a technical-version compatibility for released external interfaces in the way that is commonly used and proposed for BAPI interfaces: The already existing field remains with its original length, and an additional extended field is added at the end of the structure parameter (or as an additional single parameter) allowing for transmission of the extended lengths. It must be ensured that no extended field can be maintained in the system with a content length greater than the original length of the field.

It must be ensured that any released external API containing an extended amount field as a single parameter or as part of a structure parameter, can be called internally or locally within one system. Hence, when the provided amount field length extension is activated in customizing, all internal calls of external interfaces must only use the extended fields.

The changes described were done for BAPIs, IDocs, and released remote-enabled function modules, and where necessary, unreleased remote enabled function modules used to communicate with other SAP Business Suite products like other SAP ERP installations or SAP CRM.

A complete list of relevant function modules, IDocs, and structures that have been extended in this way can be found in the piece lists in the simplification database in SAP Notes 2628699, 2628706 and 2628704.

Refer to notes 2628040, 2628724 for more information.
System Settings to Activate the Provided Amount Field Length Extension in Customizing

When converting from the SAP Business Suite System, or upgrading from an older version of SAP S/4HANA, to SAP S/4HANA 1809 or later, the amount field length extension is not activated in customizing by default.

**Note: Once the provided amount field length extension is activated in customizing, it cannot be deactivated.**

The activation is realized as a client-dependent customizing table that can be accessed in Customizing via the following path:

Cross-Application Components -> General Application Functions -> Field Length Extension -> Activate Extended Fields

Set the checkbox for Extended Amount Length and SAVE.


**Below is a list of functions that can be used with the amount field length extension:**

- Manage Profit Center Groups
- Manage Profit Centers
- Edit Master Data – Profit Centers – Collective

This process step is to make changes to large quantities of profit center master data without having to change the master data for each single profit center.

- Edit Company Code Assignment Profit Centers

In this activity, you make changes to the company code assignments of a larger number of profit centers without having to change the master data for each single profit center.

- Display Parked Journal Entries

You can use document parking to enter and store (park) incomplete documents in the SAP System without carrying out extensive entry checks. Parked documents can be completed, checked, and then posted later or deleted – if necessary by a different accounting clerk. With this app you can display parked documents.

- Parked Journal Entry Changes
You can use document parking to enter and store (park) incomplete documents in the SAP System without carrying out extensive entry checks. Parked documents can be completed, checked, and then posted later or deleted – if necessary by a different accounting clerk. With this app you can track all changes made in parked journal entries.

- **Post General Journal Entries**

You receive G/L account documents that must be posted manually in the SAP system. When posting to the balance sheet accounts only, you only need to make an entry in the Segment field. If the field is left blank segment 1000_C will be defaulted and will need to be reconciled.

- **Upload General Journal Entries**

You receive G/L account documents that must be posted manually in the SAP system. When posting to the balance sheet accounts only, you only need to make an entry in the Segment field. If the field is left blank segment 1000_C will be defaulted and will need to be reconciled. The app allows for multiple G/L account documents to be uploaded using a single upload file.

- **Verify General Journal Entries**

You use Verify General Journal Entries for Requester to enter a journal entry which needs to be checked before final posting. You can check the status of the documents submitted for verification in various tabs: All, Submitted, Rejected and Others. For those rejected, you can edit and submit again for approval to Processor. Documents with status Submitted have not been posted yet. Once approved by the processor, the document is posted automatically and it can be seen in the SAP Fiori App Manage Journal Entries.

- **Approve Verify General Journal Entries (for Processor – Inbox)**

You receive G/L account documents that need to be checked before final posting. After checking the documents, you can either approve or reject with a comment/ reason. Once a document has been selected and approved, it disappears from the list. If a document is approved, posting of FI document is automatically triggered.

- **Reject Verify General Journal Entries (for Processor – Inbox)**

You receive G/L account documents that need to be checked before final posting. After checking the documents, you can either approve or reject with a comment/ reason. Once a document has been selected and rejected, it disappears from the list and goes back to the requester.

- **Edit a Rejected Verify General Journal Entry (Requester)**
The G/L account documents need to be checked before final posting. The document you submitted is rejected and for it to be approved and posted you need to make the changes requested by the approver.

- Manage Journal Entries
- Display G/L Account Balances
- Display G/L Account Line Items – Reporting View
- Display G/L Account Line Items – Posting View
- Manage Recurring Journal Entries

This functionality supports postings that can periodically be created on a regular basis. Recurring entries are similar to standing orders with banks for debiting rent, contribution payments, or loan repayments directly. The postings are done by the recurring entry program based on the recurring entry documents. In G/L accounting, recurring entries can be used for example, for periodic posting of deferrals and accruals, if there are fixed amounts to be posted. The following data of a recurring entry document remains unchanged:

- Posting Key
- Account
- Amount

You only need to enter the data that changes occasionally in a recurring entry document. This document does not result in transaction figures being updated. The recurring entry program uses this document to create a journal entry.

- Display changes of Recurring Entry
- Clear G/L Accounts – Manual Clearing
- Clear G/L Accounts

For detailed information, refer to the J58 Best Practices page at https://rapid.sap.com/bp/#/scopeitems/J58.

Other Terms

Amount Field Length Extension, 23 digits, Currency, Decoupling

14.8 S4TWL - Removal of D/C Indicator from Editing Options

Application Components:FI-GL-GL-A

Related Notes:
## Note Type

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2865285</td>
<td>S4TWL - Removal of D/C Indicator from Editing Options</td>
</tr>
</tbody>
</table>

### Symptom

The "D/C indicator as +/- sign" cannot be used anymore in Enjoy transactions after conversion / upgrade to S/4 HANA 1809 or higher.

### Reason and Prerequisites

Changed behaviour of the amount fields after AFLE conversion introduced with S/4 HANA 1809.

### Solution

Implement the attached correction instructions or import the specified support package.

The correction will remove the "D/C indicator as +/- sign" from the editing options screen, as negative values in the amount fields are not allowed after AFLE conversion.

### How to Determine Relevancy

The affected transactions are: FB50, FB50L, FV50, FV50L, FB60, FB65, FV60, FV65, FB70, FB75, FV70, FV75.

### Required and Recommended Action(s)

Educate your users about this change in UI behaviour.

### Other Terms

RFOPTE-XSHKE, AFLE, negative values, D/C indicator.
15. Financials - International Trade

15.1 S4TWL - Material classification with commodity codes

Application Components: SLL-LEG-FUN-CLS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2376556</td>
<td>S/4 HANA - Material classification with commodity codes in SAP S/4HANA 1610</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA 1610 or a later release.

You classify materials with commodity codes in transaction MM01 / MM02 or you classify articles with commodity codes in transaction MM41 / MM42.

This functionality (material/article classification with commodity codes) is redesigned in SAP S/4HANA 1610. Following redesign applies:

1. Management of commodity codes
   - Old in ECC and S/4HANA 1511: not time-dependent, valid for a country.
   - New in S/4HANA 1610 onwards: time-dependent, valid for a country or multiple countries, new app, new data model.

2. Classification of materials/articles with commodity codes
   - Old in ECC and S/4HANA 1511: not time-dependent, valid for material/article and plant/site, done in material master apps (e.g. MM01, MM02) or article master apps (e.g. MM41, MM42), classification of materials/articles can be distributed via MATMAS/ARTMAS IDoc (outbound and inbound processing possible) and inbound processing via BAPIs supported.
   - New in S/4HANA 1610 onwards: time-dependent, valid for material/article and a country or multiple countries, functionality accessible only via FIORI apps, new data model, classification of materials/articles cannot be distributed via MATMAS/ARTMAS IDoc (inbound processing not possible anymore, only simplified outbound processing supported) and inbound processing via BAPIs not supported anymore.
Reason and Prerequisites

Upgrade or conversion to SAP S/4HANA 1610 or later release

Solution

During upgrade to S/4HANA 1610, a X Pra - /SAPSLL/XPRA_1610_MARC_STAWN - migrates classification data to new data model.

How to Determine Relevancy

This Simplification Item is relevant if you classify materials using commodity code. You are likely using this functionality if you find non initial values in field STAWN of table MARC.

Required and Recommended Action(s)

- Before conversion you can run the pre-check report to check if there is inconsistent data. Inconsistent data is not taken over in new data model. If there is inconsistent data, you can check and correct it (Details in note 2332472) before conversion is triggered.
- Go through KBA 2432527 for detailed information on classification functionality in S/4HANA
- Knowledge transfer to key and end users

Other Terms

Material classification with commodity codes, International Trade, STAWN.

15.2 S4TWL - Personal Data in Provider of Information

Application Components:SLL-LEG-ISR

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2471388</td>
<td>S/4HANA Intrastat: Maintaining contact person data in POI master</td>
</tr>
</tbody>
</table>

Symptom

You use Intrastat reporting in S/4HANA and are upgrading to on-premise release 1709 from lower S/4HANA release (1511 or 1610).
In 1709 release you can not maintain contact person related personal information directly in 'Maintain Provider of Information' app or transaction /ECRS/POI_EDIT. Rather, you shall specify a business partner of type 'Person' and with BP role 'SLLSTL' (Person Responsible) in the POI master data.

Reason and Prerequisites

In the provider of information (POI) master data record, the data related to contact person of this POI is stored. This contact person data is used for some countries when creating a declaration file to transmit this data with the file to authority. New data security and privacy regulations require special treatment of person related data. To be compliant with these regulations the data related to the contact person of POI should not be stored anymore in POI master data record, but as a business partner of type person. In the POI master data only the reference to the business partner should be stored.

Solution

If Intrastat authorities in your country require 'contact person' information, proceed as follows.

1. A new business partner(BP) role 'SLLSTL' is delivered in client 000. Either copy the role from client 000 or create the BP role manually in affected business client. To create BP role manually proceed as follow:


   - Define a BP role category as 'SLLSTL'. Specify the title and description as 'Person Responsible'. Specify business partner category as 'Person'.

   - Next create a new BP role 'SLLSTL' with title and description as 'Person Responsible'. Specify BP role category as 'SLLSTL'.

   - Save.

2. Create Business partner of type 'Person' and BP role 'SLLSTL' (Person Responsible). Maintain relevant personal information (like Name, E-mail, Telephone, Mobile number etc.)

3. In transaction /ECRS/POI_EDIT (or app 'Maintain Provider of Information'), specify the business partner number as Contact Person

Other Terms
Provider of Information (POI), Personal Data, /ECRS/RP_EDIT, /ECRS/POI_EDIT, Contact Person, S/4HANA OP 1709.

15.3 S4TWL - Determination of default values in Intrastat reporting

Application Components: SLL-ITR-ISR, SD-FT-GOV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2468294</td>
<td>S4TWL - Determination of default values in Intrastat reporting</td>
</tr>
</tbody>
</table>

Symptom

You use Intrastat reporting in SAP S/4HANA and are upgrading to on-premise release 1709 or higher.

With SAP S/4HANA 1709, the determination of default values for business transaction type, procedure and movement code has been changed in a way that some tables and fields become obsolete and new customizing activities are introduced instead. You shall not maintain the defaults values in the obsolete tables and fields anymore. Rather, you shall specify the defaults values in the new customizing activities.

Reason and Prerequisites

Reason for this change is the following:

1. Before release 1709, the determination of defaults values for business transaction type, procedure and movement code for sales is based on organizational data. This can result in a high number of redundant data. With release 1709, the determination of defaults values for business transaction type, procedure and movement code for sales is not based on organizational data anymore.

2. Before release 1709, the determination of default values for business transaction type and procedure for receipts and returns to supplier in intercompany sales requires conversion of the code list for business transaction type and procedure from one country to another. This conversion is not possible for all country combinations. With release 1709, the determination of default values for business transaction type and procedure for receipts and returns to supplier in intercompany sales does not require conversion of the code list anymore.

3. With release 1709, the determination of the procedure based on the procedure in the customizing activity for stock transfer is not required anymore. Therefore, the procedure in the customizing activity for stock transfer become obsolete.
Solution

Description

With release 1709, the determination of default values for business transaction type, procedure and movement code is as follows:

The determination of the default values for sales is based on the customizing activity “Define Default Values for Sales”. In this customizing activity the default values can be defined depending on country of declaration, sales document item category and material group for export and import. Sales document item category is taken from the billing document and material group is determined from the material and delivering plant. Note that if the material group is not initial and no default values are defined for this material group, the second access with initial value for material group is done for determination of default values in this customizing activity.

The determination of the default values for receipts from supplier in purchasing is based on the customizing activity “Define Default Values for Purchasing”.

The determination of the default values for returns to supplier in purchasing is done in two steps: in the first step, the defaults values for receipts from supplier based on the customizing activity “Define Default Values for Purchasing” are determined and, in the second step, the conversion of these default values based on the customizing activities “Define Business Transaction Type for Returns to Supplier” and “Define Procedure for Returns to Supplier” is done.

Business Value

With the new solution the following is achieved:

1. Reduce the number of entries to be maintained for determination of default values for sales by removing the dependence of default values on organizational data (sales organization, distribution channel and division).
2. Allow the definition of defaults values for receipts and returns to supplier in intercompany sales that is valid for all country combinations and without maintaining the conversion of code list for business transaction type and procedure

Required and Recommended Action(s)

The following tables and fields become obsolete in release 1709:

- Customizing table T605Z: Foreign Trade: Proposal for Bus. Transaction Type in Export
- Customizing table T616Z: Foreign Trade: Proposal for Procedure in Export
• Customizing table T605U: Foreign Trade: Convert Export/Import Bus. Trans. Type
• Customizing table T616U: Foreign Trade: Import/Export Procedure Conversion
• Field T161W-EXPRF: Procedure in customizing table T161W: Order Types for Stock Transfer

The following customizing activities should be used instead:

• Define Default Values for Sales (SM30-view /ECRS/V_TDVS)
• Define Default Value for Purchasing (SM30-view /ECRS/V_T161B)
• Define Business Transaction Type for Returns to Supplier (SM30-view /ECRS/V_TBTR)
• Define Procedure for Returns to Supplier (SM30-view /ECRS/V_TPRR)

The migration should be done as follows:

1. Define determination of the default values for sales including receipts and returns to supplier in intercompany sales based on the customizing activity “Define Default Values for Sales” (SM30-view /ECRS/V_TDVS)
2. Define determination of the default values for receipts from supplier in purchasing based on the customizing activity “Define Default Value for Purchasing” (SM30-view /ECRS/V_T161B)
3. Define determination of the default values for returns to supplier in purchasing based on the customizing activities “Define Business Transaction Type for Returns to Supplier” (SM30-view /ECRS/V_TBTR) and “Define Procedure for Returns to Supplier” (SM30-view /ECRS/V_TPRR)
4. Test and validate the correctness of determination of the default values in the selection reports RVEXST00 and RMIMST00 for all Intrastat relevant sales and purchasing processes

How to Determine Relevancy

You are upgrading to S/4HANA on premise edition 1709 or higher, you use Intrastat reporting, and data exists in at least one of the following tables or fields:

• Customizing table T605Z: Foreign Trade: Proposal for Bus. Transaction Type in Export
• Customizing table T616Z: Foreign Trade: Proposal for Procedure in Export
• Customizing table T605U: Foreign Trade: Convert Export/Import Bus. Trans. Type
• Customizing table T616U: Foreign Trade: Import/Export Procedure Conversion
• Field T161W-EXPRF: Procedure in customizing table T161W: Order Types for Stock Transfer

Other Terms
Intrastat

15.4 S4TWL - Company code address data in provider of information

Application Components: SLL-ITR-ISR

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2782281</td>
<td>S/4HANA Intrastat: Reuse address data from company code in Provider of Information</td>
</tr>
</tbody>
</table>

Symptom

You use Intrastat reporting in S/4HANA and are upgrading to on-premise release 1909 or higher. From 1909 release you can not maintain address data of POI(Provider of Information) directly in 'Maintain Provider of Information' app or transaction /ECRS/POI_EDIT.

This address data already exists in the system defined as the address data of the company code POI is created for. Therefore, the address data of the company code should be reused for the POI and not entered in the app 'Maintain Provider of Information' anymore.

Reason and Prerequisites

This is to remove redundant address maintenance in app 'Maintain Provider of Information'.

Solution

In the app 'Maintain Provider of Information' the address data is not entered anymore but displayed from the address data of the company code.

IMPORTANT: Please take backup of address defined for POI in transaction /ECSR/POI_EDIT before upgrade to 1909 as this data will be lost after upgrade. This is to ensure that incase you have correct address data defined directly in POI and not in company code, then after upgrade you dont loose the address information and use it to specify the correct address data in company code.

Other Terms
16. Financials - Treasury and Risk Management

16.1 S4TWL - Drilldown Reporting in Treasury and Risk Management

Application Components: FIN-FSCM-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270522</td>
<td>S4TWL - Drilldown Reporting in Treasury and Risk Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

Currently there is no pre-upgrade check available to check if this simplification item is a valid restriction for your system conversion.

The drilldown reporting has been disabled for *Treasury and Risk Management*. You can't use your reports defined with the drilldown reporting.

For reporting purposes, you can use the following logical databases available for the Treasury and Risk Management:

- **FTI_TR_CASH_FLOWS**  
  Treasury Payment Information
- **FTI_TR_CASH_FLOWS_2**  
  Treasury Payment Info + addtl position attrs
- **FTI_TR_POSITIONS_2**  
  Treasury: Positions Eval + addtl position attrs
- **FTI_TR_THX_HEDGE**  
  Treasury P-Hedge Accounting Reporting
- **FTI_TR_DEALS**  
  Treasury Transaction Reporting
- **FTI_TR_EXP_POS**  
  Treasury: Exposure Positions
- **FTI_TR_HEDGE**  
  Treasury E-Hedge Accounting Reporting
- **FTI_TR_PERIODS**  
  Treasury: Period-Based Evaluations
- **FTI_TR_PERIODS_1**  
  Treasury: Period Analysis Projection
- **FTI_TR_PERIODS_2**  
  Treasury: Period-Based Eval + addtl postn attrs
- **FTI_TR_PL_CF**  
  Treasury: Revenue and Cash Flow Reporting
- **FTI_TR_PL_CF_2**  
  Treasury: Revenue and Cash Flow Reporting
FTI_TR_POSITIONS | Treasury Positions
---|---
FTI_TR_POSITIONS_1 | Treasury Positions Projection

Based on these logical databases you can use the SAP Query functionality available in the area menu of the Treasury and Risk Management under Transaction Manager -> Infosystem -> Tools -> SAP Query and define your own queries using Maintain Queries (transaction SQ01), Maintain InfoSets (transaction SQ02) and Maintain User Groups (transaction SQ03).

In addition you can use the available reports in the area menu of the Treasury and Risk Management under Transaction Manager -> Infosystem -> Reports.

**other Terms**

S4TC, S/4 Transition

### 16.2 S4TWL - Master Agreements

Application Components: FIN-FSCM-TRM

Related Notes:

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<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
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<td>Business Impact</td>
<td>2270523</td>
<td>S4TWL - Master Agreements</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

Master agreements are not available in SAP S4/HANA.

Read the following information in case the pre-upgrade check in your system issues a message for the check ID SI11_MASTER_AGREEMENTS "Master Agreements": This check issues a warning if it finds entries in the database which indicate that master agreements were created in some client of the system. The warning message is for your information, no further mandatory action is required.
Read the following information in case the custom code analysis has detected customer coding related to this transition worklist item: SAP objects which are used by the detected customer code shall not be used any more. Adapt the customer code accordingly.

Other Terms

S4TC, S/4 Transition

16.3 S4TWL - Offers

Application Components:FIN-FSCM-TRM

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
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<tbody>
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<td>Business Impact</td>
<td>2270526</td>
<td>S4TWL - Offers</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

Description

Offers in transaction management are not available in S4/HANA.

Read the following information in case the pre-upgrade check in your system issues a message for the check ID SI12_OFFERS "Offers": This check issues a warning if it finds entries in the database which indicate that offers were created in some client of the system. The warning message is for your information, no further mandatory action is required.

Read the following information in case the custom code analysis has detected customer coding related to this transition worklist item: SAP objects which are used by the detected customer code shall not be used any more. Adapt the customer code accordingly.

Other Terms

S4TC, S/4 Transition
16.4 S4TWL - Simulation in Transaction Management

Application Components: FIN-FSCM-TRM

Related Notes:

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<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<td>Business Impact</td>
<td>2270527</td>
<td>S4TWL - Simulation in Transaction Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are planning a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

Simulations in transaction management are not available in S/4HANA.

Read the following information in case the pre-upgrade check in your system issues a message for the check ID SI13_SIMULATION "Simulation in Transaction Manager": This check issues a warning if it finds entries in the database which indicate that simulations were created in some clients of the system. The warning message is for your information, no further mandatory action is required.

Read the following information in case the custom code analysis has detected customer coding related to this transition worklist item: SAP objects which are used by the detected customer code shall not be used any more. Adapt the customer code accordingly.

**Other Terms**

S4TC, S/4 Transition

16.5 S4TWL - Quantity Ledger Always Active for Money Market Transactions

Application Components: FIN-FSCM-TRM

Related Notes:

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<th>Note Description</th>
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<td>Business Impact</td>
<td>2270529</td>
<td>S4TWL - Quantity Ledger Always Active for Money Market Transactions</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

The quantity ledger is now always used for OTC transactions.

**Business Process Related Information**

The quantity ledger is a technical prerequisite for the function valuation class transfer.

**Required and Recommended Action(s)**

Before you make the conversion to SAP S/4HANA, you should set the quantity ledger active for OTC transactions in your ERP system.

In the Customizing of the Treasury and Risk Management under *Transaction Manager - > General Settings - > Tools - > Conversion - > Conversion Customizing - > Set Migration Type and Assign to Customizing Request* choose the migration type *Conversion from >= Enterprise 2.0 and <= ERP 6.0*. Assign your transport request and enter the names of your logical systems of your production system, test system, and customizing system.

Under *Transaction Manager - > General Settings - > Tools - > Conversion Program* (transaction *TPM_MIGRATION*) you now execute first the step *H02 OTC: Adjust Valuation Class in Bus. Transactions (Optional)* and then the step *H03 OTC: Generate Quantity Positions (Optional)*.

**Upgrade Pre-Check**

The pre-check for the SAP S/4 HANA transition of the quantity ledger functionality raises an error with check-id SI14_TRQ (message ‘Conversion required: Client …, Company Code …. See SAP note 2270529.’) if it finds company codes in at least one client, with the exception of clients 000 and 066, which require generation of quantity positions. Generation of quantity positions is required if an entry exists in table TRGT_MIG_CC_PT providing a defined conversion status which is incomplete. If there is no entry in table TRGT_MIG_CC_PT or the check finds otherwise an undefined
conversion status, it further checks table TRQT_BUSTRANS where for each business transaction a corresponding entry has to exist. If there are no entries in TRQT_BUSTRANS for at least one business transaction, the pre-check raises the same error.

For SAP Enhancement Packages < 3 for SAP ERP 6.0 (EA-FINSERV 600), the pre-check raises a skippable message with check id SI14_ACCR (message ‘Conversion required. See SAP note 2270529.’). This message does not show an insistency and can be skipped during the SUM upgrade. Note that you have to do the conversion after finishing the upgrade.

Other Terms

S4TC, S/4 Transition

16.6 S4TWL - Several Kinds of Financial Objects Disabled

Application Components:FIN-FSCM-TRM

Related Notes:

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<td>Business Impact</td>
<td>2270530</td>
<td>S4TWL - Several Kinds of Financial Objects Disabled</td>
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</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

Description

SEM Banking is not part of SAP S/4HANA edition. So the creation of the following outdated kinds of financial objects of SEM Banking has been disabled in function Process Financial Objects (transaction JBDO) of the Risk Analyzers of the Treasury and Risk Management:

- Security Order
  - Namespace of Financial Object: T2*
  - Master Data Maintenance Transaction: JBWPORD
The namespace T2* is shared between the security order of SEM Banking (maintained via transaction JBWPORD; Radiobutton “Security Order” in financial object master data transaction JBDO), and the security transaction of SAP Treasury and Risk Management (financial transaction created via FTR_CREATE or TS01; Radiobutton Derivatives/Money Market/Forex/Listed Transaction/Security Transaction in financial object master data transaction JBDO). The T2*-financial objects of SAP Treasury and Risk Management are continued to be supported.

- Positions
  - Namespace of Financial Object: B1*
  - Master Data Maintenance Transactions: JBB0, JBB1, JBB2
  - [IMPORTANT] This is to be distinguished from the financial objects for different kinds of positions in SAP Treasury and Risk Management, like the securities account class position (namespace of financial object: T9*), class position in futures account (namespace of financial objects: TA*) or the lot-based position in futures account (namespace of financial objects: TF*) which are continued to be supported.

- Variable Transactions (applies for the SAP Banking application component only)
  - Namespace of Financial Object: BV*
  - Master Data Maintenance Transactions: JBVT*

- Positions of Fictitious/Simulated Transactions
  - Namespace of Financial Object: R3*
  - Master Data Maintenance Transaction: RTBST

- Facilities in SAP Banking
  - Namespace of Financial Object: F2*
  - Master Data Maintenance Transactions: KLFZ01, KLFZ02, KLFZ03
  - [IMPORTANT] This is to be distinguished from the facility instrument in SAP Treasury and Risk Management (product category 560) which is continued to be supported in SAP S/4HANA edition. The namespace of the financial object for facilities of product category 560 is T5*.

- Non-Interest Profit and Loss Items
  - Namespace of Financial Object: PL*
  - Master Data Maintenance Transaction: JBA_US_MD_NIPL

The other financial objects of group 1 (= SAP Banking) and of group 2 (= Treasury and Risk Management objects) are still available.

Customer code which makes use of coding objects which are specific to the disabled financial object types is no longer relevant.
Business Process Related Information

The SEM Banking is not part of SAP S/4HANA edition. So these objects are obsolete.

How to Determine Relevancy

Check in the Customizing of your system whether you activated the financial object integration for these financial objects or not.

Other Terms

S4TC, S/4 Transition

16.7 S4TWL - Allocation of FX Transactions to Financial Documents and Cash Management

Application Components: FIN-FSCM-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2524941</td>
<td>S4TWL - Allocation of FX Transactions to Financial Documents and Cash Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

The allocation of FX transactions of *SAP Treasury and Risk Management* to financial documents of the classical Financial Accounting or to memo records of the classical Cash Management as a preparational step for special revaluation programs has been disabled (see also simplification item S4TWL - General Ledger, business impact note 2270339, and simplification item S4TWL - Cash Management General, business impact note 2270400).

There is no succeeding function offered.
In case of transferring FX hedging effects of *SAP Treasury and Risk Management* to the new General Ledger using hedge accounting rules contact SAP for further information of the new functionality.

**Other Terms**

S4TC, S/4 Transition

**16.8 S4TWL - Correspondence Functionality**

Application Components: FIN-FSCM-TRM-TM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270450</td>
<td>S4TWL - Correspondence Functionality</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Business Value**

Starting with *SAP enhancement package 4 for SAP ERP 6.0* the *Treasury and Risk Management* provides a new correspondence framework for incoming and outgoing correspondence. Within *SAP enhancement package 5 for SAP ERP 6.0* this correspondence framework was enhanced.

This new correspondence framework offers a higher automation in the correspondence processing and a higher flexibility. Details can be found in the EKT Material of Enhancement Package 4 and 5.

**Description**

In SAP ERP starting with *SAP enhancement package 4 for SAP ERP 6.0* you can activate the correspondence framework via business function FIN_TRM_CORR_FW. With *SAP enhancement package 5 for SAP ERP 6.0* business function FIN_TRM_CORR_FW_2 is available.
From *SAP S/4HANA OP 1511* on the new correspondence framework is the only possible way to manage incoming and outgoing correspondence. The support of SAPScript ceases with the new correspondence framework.

**Required and Recommended Action(s)**

Customers have to implement the Correspondence Framework before they go to SAP S/4HANA OP 1511 or subsequent releases.

If you are not using old correspondence functionality and you do not plan to use the Correspondence Framework you can upgrade to S/4HANA without any difficulties.

If you are using old correspondence functionality and upgrade to *SAP S/4HANA* from a release in which the Correspondence Framework is technically available, you need to activate the Correspondence Framework and create necessary customizing before upgrading to *SAP S/4HANA*. It is possible to migrate customizing from old correspondence functionality, but this will create many technical customizing entries. SAP strongly recommends that you do not migrate and instead manually create necessary customizing (which is an own project and needs time).

If you use the old correspondence functionality and upgrade to S/4HANA from an older release where the correspondence framework is technically not available, you will get an error message during migration. Skip this error message, which is only relevant for the correspondence framework, and proceed with migration to SAP S/4HANA. If you want to use the correspondence framework in SAP S/4HANA, set up the customizing for it manually (this is a separate project and takes time).

**Pre-Upgrade-Check**

The pre-upgrade check for *SAP S/4HANA* transition issues an error with check ID SI1_TCOR if business function FIN_TRM_CORR_FW (more precise: switch FTRMO_SFWS_SC_C02S04_CORR) is not active and at least one client exists in system in which correspondence was created with old correspondence functionality within the last year (database table VTBKORES contains an according entry).

Information: SAP reserved clients 000 and 066 are exempt from the check.

You can skip this error directly.

**Other Terms**

S4TC S/4 Transition
16.9 S4TWL - Interest Rate and Yield Curve Functionality

Application Components: FIN-FSCM-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270461</td>
<td>S4TWL - Interest Rate and Yield Curve Functionality</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Business Value

With the new yield curve framework customers can benefit from

- More flexibility in the calculation of net present values of financial transactions
- The ability to comply with accounting standards like IFRS13
- The possibility to reduce the number of yield curves for which market data needs to be stored

Description

The classical yield curve functionality has been replaced by the more flexible yield curve framework, which enables you to do the following:

- Define reference interest rates with independent payment and compounding frequencies of less than one year
- Define basis spreads (tenor or currency spreads) and basis spread curves in market data management
- Add basis spread curves and credit spread curves to yield curves and account for them in net present value calculations

Refer to note 1873119 for more information on the yield curve framework functionality and technical availability.

In SAP ERP, the yield curve framework can be activated via business function FIN_TRM_YCF and a customizing activity. In S/4HANA, on-premise-edition, it is always active, irrespective of the customizing setting.
Required and Recommended Action(s)

The definition of reference interest rates and yield curves in customizing differs between the classical yield curve functionality and the yield curve framework. Therefore, the customizing needs to be adapted when switching to the new yield curve framework. Report FTBB_YC_MIGRATE is available to partly automate the necessary migration steps.

If you upgrade to S/4HANA from a release in which the yield curve framework is technically available, SAP recommends that you activate the yield curve framework before upgrading to S/4HANA.

If you upgrade to S4/HANA directly from an older release, in which the yield curve framework is not yet available, you have to perform the migration to the yield curve framework in S4/HANA before you can continue using yield-curve related functionality, such as the calculation of NPVs with transaction TPM60.

Refer to note 1873119 and its related notes for more information on the yield curve framework.

The pre-upgrade-check for S4/H transition issues a warning with check ID SI2_YCF if at least one client exists in the system in which the yield curve framework is not active, or if the system is on a release level in which the yield curve framework is not yet technically available. (Clients 000 and 066 are exempt from the check.)

How to Determine Relevancy

Use transaction SFW_BROWSER to check the activation status of object FIN_TRM_YCF.

If the business function is not activated, the classical interest rate and yield curve functionality is active.

If the business function is activated, use transaction SPRO to check the status of the following customizing activity:


If the Yield Curve Framework is activated in the customizing, the classical interest rate and yield curve functionality is not technically in use anymore. Otherwise it is still active.
16.10S4TWL - Accrual/Deferral of Expenses and Revenues

Application Components: FIN-FSCM-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270462</td>
<td>S4TWL - Accrual/Deferral of Expenses and Revenues</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

Description

As of SAP Enhancement Package 3 for ERP 6.0 (EA-FINSERV 603), Business Function TRM: Hedge Accounting, New Financial Products, New Key Figures a central function for Accrual/Deferral of Expenses and Revenues (transaction TPM44, reversal transaction TPM45) for all financial transactions is available.

The accrual/deferral functions for OTC transactions (transactions TBB4 and TBB5) have been replaced by this new functionality.

In SAP S/4HANA only this central function is available.

The accrual/deferral functions of transactions ACCR01 - ACCR07 plus accompanying transactions are no longer supported.

Required and Recommended Action(s)

If you are upgrading from SAP Enhancement Packages >= 3 for SAP ERP 6.0 (EA-FINSERV 603 ff.), and you are still using the old functionality, you have to switch to the new functionality before you make the conversion to SAP S/4 HANA edition.

If you are upgrading from SAP Enhancement Package < 3 for SAP ERP 6.0 (EA-FINSERV 600) to S/4HANA and you are still using the old functionality for the accrual/deferral of expenses and revenues for OTC transactions, you may continue the conversion to S/4HANA, because the needed migration tool is not available on this
release. However, you have to switch to the new functionality after finishing the upgrade to SAP S/4HANA edition.

Conversion to the new Functionality

In the Customizing of the Treasury and Risk Management under Transaction Manager - > General Settings - > Tools - > Conversion - > Conversion Customizing - > Set Migration Type and Assign to Customizing Request choose the migration type Conversion from >= Enterprise 2.0 and <= ERP 6.0. Assign your transport request and enter the names of your logical systems of your production system, test system, and customizing system.

In your Customizing system in the Customizing of the Treasury and Risk Management under Transaction Manager - > General Settings - > Tools - > Conversion Program (transaction TPM_MIGRATION) you now execute the report G01 OTC: Convert Customizing for Accrual/Deferral.

When the new Customizing is available in the productive system, execute the step H01 OTC: Convert Accruals/Deferrals available in the Customizing of the Treasury and Risk Management under Transaction Manager - > General Settings - > Tools - > Conversion Program (transaction TPM_MIGRATION).

Upgrade Pre-Check

The pre-check for the SAP S/4 HANA transition of the accrual/deferral functionality raises an error with check-id SI3_ACCR (message ‘Conversion required: Client …, Company Code …. See SAP note 2270462.’) if it finds company codes in at least one client, with the exception of clients 000 and 066, which require conversion. Conversion is required if an entry exists in table TRGT_MIG_CC_PT providing a defined conversion status which is incomplete. Undefined conversion status are checked in table TRDT_TRDBUSTRANS where at least one business transaction for the company code and one of the versions “Enterprise 2.0 to ERP 2005”, “Enterprise 1.10” or “CFM 1.0 SP 4 to CFM 2.0” has to exist.

For SAP Enhancement Packages < 3 for SAP ERP 6.0 (EA-FINSERV 600), the pre-check raises a skippable message with check ID SI3_ACCR (message ‘Conversion required. See SAP note 2270462.’). This message does not show an inconsistency and can be skipped during the SUM upgrade. Note that you have to do the conversion after finishing the upgrade.

Other Terms

S4TC, S/4 Transition
16.11S4TWL - Credit Risk Analyzer Link to Cash Management

Application Components: FIN-FSCM-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270470</td>
<td>S4TWL - Credit Risk Analyzer Link to Cash Management Disabled in S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You are planning a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

The link from classical Cash Management to the Treasury and Risk Management analyzers (transactions RMCM and KLMAP) has been disabled in S/4 HANA.

Instead with SAP S/4HANA 1709 Bank Account Management is integrated with the Market Risk Analyzer and the Credit Risk Analyzer of the Treasury and Risk Management by a new type of financial object for bank account balances.

**Required and Recommended Actions**

Read the following information in case the pre-upgrade-check in your system issues a message for the check ID SI5_CM_TO_CRA "Classic cash management link to analyzers":

The link from classic cash management to the analyzers (transactions RMCM and KLMAP) is no longer supported in SAP S/4HANA. This check issues a warning if it finds entries in the corresponding customizing table KLCMMAPPING in any client of the system. The warning message is for your information, no further mandatory action is required. You can stop the warning message from appearing by removing all customizing entries from table KLCMMAPPING (transaction KLMAP) in all clients of the system.

Read the following information in case the custom code analysis has detected customer coding related to this transition worklist item:

SAP objects which are used by the detected customer code are deprecated and shall not be used any more. The customer code will not work any more.

If you want to use the integration of Bank Account Management with Treasury and Risk Management in SAP S/4HANA 1709, you have to setup the automatic integration of financial objects for bank accounts.

Other Terms

S4TC, S/4 Transition

16.12S4TWL - Exposure Management 1.0

Application Components:FIN-FSCM-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2340804</td>
<td>S4TWL - Exposure Management 1.0 within Treasury and Risk Management</td>
</tr>
</tbody>
</table>

Symptom

You are planning a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

The *Exposure Management 1.0* is no longer the target architecture and has been disabled technically. *Exposure Management 2.0* is the more flexible and comprehensive successor application. There is no standard migration tool from *Exposure Management 1.0* to *Exposure Management 2.0* though. You have to set up *Exposure Management 2.0* and transfer the data into the new application just in the same way as if you had used another software system before and wanted to migrate to the SAP solution.

The basic functionality of the *Exposure Management 2.0* is available with the business functions TRM, Hedge and Exposure Management, New Financial Product (FIN_TRM_LR_FI_AN_2) delivered with SAP ERP 6.0 enhancement package 4.

There are several other business functions, for example, TRM, Enhancements in Exposure Management 2.0 (FIN_TRM_LR_FI_AN_4) delivered with SAP ERP 6.0 enhancement package 7 . These business functions are always on in SAP S/4HANA.
Customers have to implement the *Exposure Management 2.0* **before** they go to SAP S/4HANA.

- If you are not using *Exposure Management 1.0* and you do not plan to use *Exposure Management 2.0* you can upgrade to SAP S/4HANA without any difficulties.
- If you are using *Exposure Management 1.0* and upgrade to SAP S/4HANA from a release in which *Exposure Management 2.0* is technically available, SAP recommends that you set up *Exposure Management 2.0* and create necessary customizing before upgrading to SAP S/4HANA. However it is possible to upgrade to SAP S/4HANA without setting up *Exposure Management 2.0*, but in that case you cannot use *Exposure Management 2.0* in SAP S/4HANA until customizing for the *Exposure Management 2.0* is available (which is an own project and needs time).
- If you are using *Exposure Management 1.0* and upgrade to SAP S/4HANA from an older release in which *Exposure Management 2.0* is technically not available, SAP recommends that you first upgrade to a release in which *Exposure Management 2.0* is available and set up the *Exposure Management 2.0* including necessary customizing creation, before upgrading to SAP S/4HANA. However it is possible to upgrade to SAP S/4HANA without setting up *Exposure Management 2.0*, but in that case you cannot use *Exposure Management 2.0* in SAP S/4HANA until customizing for the *Exposure Management 2.0* is available (which is an own project and needs time).

Read the following information in case the Pre-Upgrade-Check in your system issues a message for the check ID **SI6_EXP_MGT_10** "Exposure Management 1.0": This check issues a warning if it finds entries in the database which means that exposures have been entered in at least one client in the system. The warning message is for your information, no further mandatory action is required.

Read the following information in case the custom code analysis has detected customer coding related to this transition worklist item: SAP objects which are used by the detected customer code are deprecated and shall not be used any more. The customer code will not work any more.

**Other Terms**

S4TC, S/4 Transition

**16.13S4TWL - Drawable Bonds**

Application Components:FIN-FSCM-TRM

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270521</td>
<td>S4TWL - Drawable Bonds</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

Drawable bonds based on product category 041 are not available within SAP S/4HANA, on-premise edition 1511, and subsequent releases.

**Other Terms**

S4TC, S/4 Transition
17. Financials – Miscellaneous

17.1 S4TWL - Credit Management

Application Components: FIN-FSCM-CR, FI-AR-CR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270544</td>
<td>S4TWL - Credit Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA and you are using Credit Management (FI-AR-CR) on SAP ERP. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

Solution

In the following we distinguish between the three possible constellations in your system:

A. You are only using FI-AR-CR Credit Management in your source release
B. You are only using SAP Credit Management (FIN-FSCM-CR) in your source release
C. You are using both Credit Management solutions (FI-AR-CR & FIN-FSCM-CR) in your source release
D. You are not using any of the Credit Management solutions (Then this note is not relevant for you)

(with the prefixes A, B, C, D we mark the explanations as relevant for these scenarios in the following chapters)

Description:

Credit Management (FI-AR-CR) is not available as part of SAP S/4HANA. The functional equivalent in SAP S/4HANA is SAP Credit Management (FIN-FSCM-CR).

- Risk category -> Risk class maintained for the whole business partner (not per customer & credit control area), as the probability of a credit default of your customer does depend on the characteristics of your customer and not your internal organizational structures.
- Maintenance of customer master data in business partner transaction
The credit checks carried out for a customer depend on the assigned check rule in the business partner transaction. They do not depend on the risk class (formerly risk category).

Releasing blocked documents via Case Management (documents the blocking reason)

How to Determine Relevancy:

A: Indicators for the usage of FI-AR-CR Credit Management are:

- You are using transaction FD31 or FD32 to maintain credit account master data (this data is stored in table KNKK & KNKA)
- You are using transactions VKM1-4 to process sales documents (e.g. releasing blocked sales orders)
- Function module UKM_IS_ACTIVE returns space for flag E_ACTIVE and E_ERP2005
- In general: You are using parts of the obsolete transactions and reports listed in chapter “Business Process related Information”.
- Exposure data is stored and updated continuously in database tables S066 and S067.

B: Indicators for the usage of SAP Credit Management (FIN-FSCM-CR) are:

- You are using transaction BP or UKM_BP to maintain credit account master data (this data is stored in table UKMBP_CMS_SGM & UKMBP_CMS)
- You are using transaction UKM_CASE to process sales documents (e.g. releasing blocked sales orders)
- Function module UKM_IS_ACTIVE returns ‘X’ for parameter E_ACTIVE and E_ERP2005

C: Indicators of A and B apply for you.

D: None of the indicators of A and B apply for you.

Business Value:

- Higher degree of automation, thanks to automatic calculation of credit scores, risk classes and credit limits
- Credit events help the credit analyst to focus on exceptions during his daily business
- Create a relationship from credit analysts to customers
- Process of credit limit requests
- Documented credit decisions
- Higher / lower account relationship of business partners (adds up exposure of lower accounts on higher accounts)
• Less redundant data (reading FI-data via HANA view)

**Business Process related information:**

A & C: You need to migrate FI-AR-CR to FIN-FSCM-CR. The migration from one-system landscapes is supported by tools that SAP provides in the IMG. (see details in chapter “Required and Recommended Action(s)”)  

**Influence on Business Processes:**

A & B & C: There will be no change to your business processes because of the system conversion.

A & C: However, some transactions become obsolete and are replaced by new transactions.

Here are some examples for such cases:

<table>
<thead>
<tr>
<th>Examples for replaced transactions in SAP S/4HANA</th>
<th>For the maintenance of the credit account master data, transaction FD32 is replaced by transaction UKM_BP.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For releasing credit-blocked sales orders, transaction VKM1 is replaced by transaction UKM_MY_DCDS.</td>
<td></td>
</tr>
<tr>
<td>Transactions not available in SAP S/4HANA</td>
<td>F.28 - Customers: Reset Credit Limit</td>
</tr>
<tr>
<td>F.31 - Credit Management - Overview</td>
<td></td>
</tr>
<tr>
<td>F.32 - Credit Management - Missing Data</td>
<td></td>
</tr>
<tr>
<td>F.33 - Credit Management - Brief Overview</td>
<td></td>
</tr>
<tr>
<td>F.34 - Credit Management - Mass Change</td>
<td></td>
</tr>
<tr>
<td>FCV1 - Create A/R Summary</td>
<td></td>
</tr>
<tr>
<td>FCV2 - Delete A/R Summary</td>
<td></td>
</tr>
<tr>
<td>FCV3 - Early Warning List</td>
<td></td>
</tr>
<tr>
<td>FD24 - Credit Limit Changes</td>
<td></td>
</tr>
<tr>
<td>FD32 - Change Customer Credit Management (but FD33 still available for Migration checks)</td>
<td></td>
</tr>
<tr>
<td>FDK43 - Credit Management - Master Data List</td>
<td></td>
</tr>
<tr>
<td>S_ALR_87012215 - Display Changes to Credit Management</td>
<td></td>
</tr>
<tr>
<td>S_ALR_87012218 - Credit Master Sheet</td>
<td></td>
</tr>
<tr>
<td>VKM1 - Blocked SD Documents</td>
<td></td>
</tr>
<tr>
<td>VKM2 - Released SD Documents</td>
<td></td>
</tr>
<tr>
<td>VKM3 - Sales Documents</td>
<td></td>
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<tr>
<td>VKM4 - SD Documents</td>
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<tr>
<td>VKM5 - Deliveries</td>
<td></td>
</tr>
<tr>
<td>Reports not available in SAP S/4HANA</td>
<td>RFARI020 - FI-ARI: Extract from credit master data</td>
</tr>
<tr>
<td>RFARI030 - FI-ARI: Import credit master data</td>
<td></td>
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<tr>
<td>RFDFILZE - Credit Management: Branch/Head Office Reconciliation Program</td>
<td></td>
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<tr>
<td>RFDKLI*NACC Reports</td>
<td></td>
</tr>
<tr>
<td>RFDKLxx Reports</td>
<td></td>
</tr>
</tbody>
</table>
The following settings in Customizing are affected by the migration:

- All IMG activities for SAP Credit Management are listed in Customizing under the following path: Financial Supply Chain Management > Credit Management.
- The credit limit check for sales document types can only be specified as type D in SAP Credit Management or can be left empty (no credit limit check). The credit limit check types A, B, and C are no longer available.
- The credit check when changing critical fields has been removed from the SD side.
- The payment guarantee-related Letter of Credit has been removed from the SD side.
- A credit check on the basis of the maximum document value is not supported in SAP S/4HANA 1511 SP00 and SP01. It is supported as of SAP S/4HANA 1511 FPS2.

**Required and Recommended Action(s):**

**B:** Migrating Credit Management is not needed. Review of BadIs “UKM_R3_ACTIVATE” and “UKM_FILL” is advisable. Think of using the default implementation provided by SAP. (FI-data will then be read real-time with the default implementation of BadI “UKM_R3_ACTIVATE”. The implementation of BadI “UKM_FILL” is then not needed anymore.)

**D:** Nothing to do, migration of Credit Management is not needed.

**A & C:** You need to migrate FI-AR-CR to FIN-FSCM-CR completely. This migration comprises several elements:

- Configuration data
- Master data
- Credit exposure data
- Credit decision data

The migration from one-system landscapes is supported by tools that SAP provides.

Reviewing the migrated Customizing is advisable afterwards: For example, risk classes are now maintained once for a customer (for all segments) instead of maintaining them per customer’s credit control area.

1. Prerequisites for the migration to SAP Credit Management:

- You have completed all documents related to payment guarantee Letter of Credit.
- You have completed the migration for Accounting.
• If you are running on your own code, you have eliminated the usage of SAP objects in your own code. For details on how to adapt user-defined customer code that relies on the changed objects, see the following SAP Notes:
  - 2227014 (Financials)
  - 2227014 (SD)

2. Perform the recommended actions in the Task List PDF attached to this Note (only available in English). This list is only valid for the conversion of one-system landscapes.

C (additionally): Review of Badls “UKM_R3_ACTIVATE” and “UKM_FILL” is advisable. Think of using the default implementation provided by SAP.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom code-related information (SD)</th>
<th>SAP Note: 2217124</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom code-related information (Financials)</td>
<td>SAP Note: 2227014</td>
</tr>
</tbody>
</table>

**17.2 S4TWL - Technical Changes in Material Ledger**

Application Components: CO-PC-ACT

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2332591</td>
<td>S4TWL - Technical Changes in Material Ledger</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This simplification makes it obligatory to use the Material Ledger (ML) which is now part of the standard and automatically active in all SAP S/4HANA systems.

Actual Costing (including Actual Cost Component Split) is still optional.

When an existing SAP system is converted to SAP S/4HANA, the Material Ledger will be activated during the migration process (if not already active). If any additional plants...
are added at a later point in time, the material ledger has to be activated for those plants (valuation areas) manually via transaction OMX1.

As a consequence of the close integration of Material Ledger into sFIN processes, further simplification, refactoring, and process redesign has been implemented. This has incompatible effects especially on database table design and therefore direct SQL accesses to the affected tables.

**Solution**

The content of most of the former Material Ledger database tables is now stored in table ACDOCA which allows simpler and faster (HANA optimized) access to the data. The attributes of the ML data model that are relevant for the inventory subledger functionality are now part of table ACDOCA. The former tables are obsolete. Therefore the following tables must not be accessed anymore via SQL statements. In most cases a corresponding access function or class has been provided that must be used instead.

- **Period Totals and Prices**
  - CKMLPP “Material Ledger Period Totals Records Quantity”
  - CKMLCR “Material Ledger: Period Totals Records Values”
  - Access function: CKMS_PERIOD_READ_WITH_ITAB

- **Material Ledger Document and associated views**
  - MLHD
  - MLIT
  - MLPP
  - MLPPF
  - MLCR
  - MLCRF
  - MLCRP
  - MLMST
  - Access functions: CKML_F_DOCUMENT_READ_MLHD, CKML_F_DOCUMENT_READ_MLXX
  - Further tables (with no access function): MLKEPH, MLPRKEKO, MLPRKEPH
  - Obsolete database views: MLXXV, MLREPORT, MLREADST

- **Index for Accounting Documents for Material**
  - CKMI1
  - Obsolete, no further access possible

In addition, some further simplifications have to be taken into account:

- Separate currency customizing of Material Ledger (transactions OMX2 / OMX3) is now mandatory. The Material Ledger acts on the currencies defined for the leading ledger in Financials.
  There is no default Material Ledger Type “0000” anymore.
Customizing in Financial applications allows you to assign more than three currency and valuation types as being relevant in your company code. As the Material Ledger still supports only three currency and valuation types, it is no longer allowed to use an ML Type that references currency settings defined in FI or CO (flags “Currency Types from FI” and “Currency Types from CO”). Instead you have to explicitly define the currency and valuation types that are relevant for the Material Ledger.

Steps to be executed:
1. Use transaction OMX2 to define the currency and valuation types that are relevant for the Material Ledger.
2. Then use transaction OMX3 to assign this ML Type to your valuation area.

See also note https://i7p.wdf.sap.corp/sap/support/notes/2291076

- Material Price Analysis (transaction CKM3 / CKM3N)
  The transaction CKM3/CKM3N was refactored and now provides a simplified and improved view of materials in plants with active Actual Costing. It replaces the former CKM3 view Price Determination Structure.
  The former CKM3 Price History view is still available via transaction CKM3PH for all materials (independent of price determination control and active Actual Costing).
  All other views formerly offered by CKM3/CKM3N are no longer available.
- For details about new Actual Costing simplification, please check the corresponding upgrade information SAP Note.

Other Terms
ML, Document, CKMB, CKM3, Period Totals, LBKUM, SALK3

17.3 S4TWL - Real Estate Classic


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270550</td>
<td>S4TWL - Real Estate Classic</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

SAP Real Estate Management is the real estate solution from SAP. From SAP ECC up to and including SAP ERP 6.0, SAP has provided two versions of the real estate solution. The older version is "Real Estate Classic (RE Classic)" and the new version is "Real Estate Flexible (RE-FX)" (see SAP Note 443311).

The editions SAP S/4HANA on premise 1511 and SAP S/4HANA Finance 1503 (and all other OP versions) do not support Real Estate Classic (RE Classic). The business requirements can be covered by using Real Estate Flexible (RE-FX) functionality. As RE-FX is the more up-to-date solution and has a much broader functional scope (see SAP Note 517673), only RE-FX is included as the RE component in the SAP S/4HANA on-premise edition.

Business Process related information

Before the system conversion to SAP S/4HANA, on-premise edition 1511 (or SAP S/4HANA Finance edition 1503, or higher releases), customers who use RE Classic need to migrate RE Classic to RE-FX as part of a migration project. It is not possible to migrate after switching to SAP S/4HANA. Customers have to be aware, that it is not possible anymore to view and display classic RE data in S/4 HANA.

Migrating data from Classic RE to RE-FX is not a simple technical conversion. Similar to a legacy data transfer, the migration must be planned as a project and executed. In this sense, the migration programs are the technical support for the data transfer project. A migration project can be more or less time consuming depending on how complex your data is, the capacity in which you work with customer developments and the extent to which you use the RE-FX functions.

For more information, see SAP Note 828160.

Other Terms

RE, Classic, real estate management, REMICL, RE-FX Real Estate Management, RE Classic, RE-Classical

17.4 S4TWL - Conversion to S/4HANA Material Ledger and Actual Costing

Application Components:FIN-MIG-ML

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
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<tr>
<td>Business Impact</td>
<td>2352383</td>
<td>S4TWL - Conversion to S/4HANA Material Ledger and Actual Costing</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP Business Suite or SAP Simple Finance to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA, the material ledger is mandatory. Therefore, migration of the material ledger is required in the following scenarios:

- Migration from SAP ERP to SAP S/4HANA 1610 or higher
- Migration from SAP Simple Finance to SAP S/4HANA 1610 or higher

You **always** need to migrate the material ledger, even if you were not using the material ledger in the source system.

**Required Action(s)**

Before starting the conversion, please make sure to implement relevant SAP Notes that are mentioned in SAP Note 2345739.

**Customizing Migration**

Before migrating the material ledger, you need to complete the following IMG activities under *Migration to SAP S/4HANA Finance*.

Under *Preparations and Migration of Customizing*:

- *Preparations and Migration of Customizing for General Ledger* (These activities only need to be executed if you are migrating from SAP ERP)
Business Suite to SAP S/4HANA. If you are already using SAP Simple Finance 2.0 or higher, they are not relevant.)

- Preparations and Migration of Customizing for Material Ledger -> Migrate Material Ledger Customizing (This activity always needs to be executed, even if you are migrating from SAP Simple Finance to SAP S/4HANA.)

Data Migration

To start the material ledger migration activities, go to the IMG and navigate to Migration to SAP S/4HANA Finance -> Data Migration and start the activity Start and Monitor Data Migration.

For further information, see the IMG documentation on the Start and Monitor Data Migration activity.

The currency conversion in step M10 and M11 is done via standard exchange rate type 'M'.

The process of migrating the material ledger consists of the following activities in the Start and Monitor Migration activity:

- M10: Migrate Material Ledger Master Data

This activity ensures that the material ledger is activated for all valuation areas, since it is mandatory in SAP S/4HANA. The activity creates material ledger master data (tables: CKMLHD, CKMLPR, CKMLPP and CKMLCR) in all material ledger currencies for periods more recent than the last period of the previous year.

In addition, all existing inventory aggregate values (tables MBEW, EBEW, QBEW, OBEW) and their complete historic data (tables MBEWH EBEWH, QBEWH, OBEWH) are migrated into the new universal journal entry table ACDOCA and ACDOCA_M_EXTRACT. Period records more recent than the last period of the previous year are converted into material ledger currencies using standard exchange rate type 'M'. Periods earlier than the last period of the previous year are only migrated in home currency. During migration, balance carryforward records (fields: BSTAT = ‘C’ and MIG_SOURCE = ‘N’) are created in ACDOCA. If you are already using the material ledger, existing material ledger records (tables CKMLPP and CKMLCR) are transferred into ACDOCA and ACDOCA_M_EXTRACT with all existing currency information.

This migration activity does not activate actual costing, since actual costing is still optional in SAP S/4HANA. However, if you are already using actual costing in the migration source system, ML data for actual costing will be transferred to new data structures to enable fast and efficient cost calculation. In particular, the following
Database tables will be filled for periods more recent than the last period of the year before the previous year until the current period.

**Attention:** The relevant periods are determined via table MARV (fields VVJGJ, VVJMO, LFGJA, LFMON). Make sure that data in MARV is correct. Do not transport table entries of table MARV from different systems, where MARV might not be up-to-date. This can lead to severe data inconsistencies.

<table>
<thead>
<tr>
<th>Table Name</th>
<th>Description</th>
<th>Replacement for Purpose</th>
<th>Remark for Migration</th>
</tr>
</thead>
<tbody>
<tr>
<td>MLDOC</td>
<td>Material Ledger Document</td>
<td>MLHD, MLIT, MLPP, MLPPF, MLCR, MLCRF, CKMLPP, CKMLCR, MLCD, CKMLMV003, CKMLMV004, CKMLPPWIP etc.</td>
<td>Optimized data structure for ML actual costing. Will be filled during transactional update of ML data and during ML settlement.</td>
</tr>
<tr>
<td>---</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOCCC</strong></td>
<td>Material Ledger Document Cost Component Split</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOC</strong></td>
<td>Extract of Material Ledger Document</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOCCC S_EXTRA</strong></td>
<td>Extract of MLDOCCC</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOCCC S_EXTRA</strong></td>
<td>Similar to MLDO, but contains only information about quantity and value. It is possible to compress this table to one entry per period and cost estimate number via report FCML4H_MLD OC_EXTRACT _COMPRESS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLKEPH</strong></td>
<td>Optimized data structure for cost component split in ML actual costing during step M10. Cost component data are created based on ML DOC entries.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOC</strong></td>
<td>During migration, one entry is created for each combination of cost estimate number, currency type, period, category, and process category.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOC</strong></td>
<td>Similar to MLDOC, but contains only information about quantity and value. It is possible to compress this table to one entry per period and cost estimate number via report FCML4H_MLD OC_EXTRACT _COMPRESS.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOCCC</strong></td>
<td>Extract of MLDOCCC</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MLDOCCC</strong></td>
<td>-</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material Ledger Document Component Split</td>
<td>Material ACT but with information per cost component. Tables MLDOC _EXTR ACT and MLDOC CCS_E XTRACT will be used especially to calculate information about beginning inventory in specific period, by cumulating quantities and values from all previous periods.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>----------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MLRUNLIS T Obj ect List for Costing Run</td>
<td>CKMLMV011, status in CKMLPP</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Inform ation about status of materials and activity types in ML costing runs. During migration, table ML RU NLI ST is filled.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Note

For all ML costing runs created in the start release, the Post Closing step needs to be finished. It will not be possible to process costing runs created earlier in the new release.

The Posting Logic of the new Actual Costing has been changed in some details. These changes require the following adjustments in the Account Determination (Transaction OBYC or IMG -> Materials Management -> Valuation and Account Assignment -> Account Determination -> Account Determination Without Wizard -> Configure Automatic Postings).

- Transaction PRL (Activity Price Differences):

This transaction was introduced with SAP S/4HANA 1610. It is used for the offsetting posting of the cost center credit posting (Transaction/Account Modification GBB/AUI). Maintain the rules and posting key for transaction PRL. Then assign the accounts that will receive the activity price differences credited to the cost centers. From SAP S/4HANA 1610 all activity related postings are performed with valuation class <blank>. It is therefore not necessary to activate the Valuation Modification in the rules of transaction PRL.

- Transaction GBB/Account Modification AUI:

From SAP S/4HANA 1610 all activity related postings are performed with valuation class <blank>. If you have activated the Valuation Modification in the rules of transaction GBB, make sure to create an account assignment entry for General Modification AUI and Valuation Class <blank> also.

- Transactions PRV and KDV:

These transactions are obsolete with SAP S/4HANA 1610 (since the new Actual Costing no longer distinguishes between single-level and multilevel variances). Their account assignment entries may be removed.

- **M20: Check Material Ledger Master Data**

After performing the material ledger master data migration activity, this activity checks and verifies the migrated data. For instance, existing values from the inventory and material ledger tables are compared with aggregation via table ACDOCA.

Check the error messages. Usually no adjustment is necessary for insignificant errors, such as those from time periods long in the past or from company codes that are not productive. If you have any doubts, discuss them with your auditor. You have the option to accept errors that are not to be corrected. After you have accepted all errors, you can continue with the next migration step. If anything was adjusted, you can reset the run and repeat it.

- **M11: Migrate Material Ledger Order History**

If the material ledger was not active in any valuation area before SAP S/4HANA conversion, this activity ensures that all existing purchase order history table records (tables EKBE, EKBEH, EKBZ, EKBZH) and production order history table records (tables MLAUFCR and MLAUFCRH) are converted into the material ledger currencies using standard exchange rate type 'M'.

- **M21: Check ML Production Order and Purchase Order History**

This activity verifies whether all production and purchase order history records have been converted into the material ledger currencies.

**Note**

If you want to minimize the amount of data to be migrated, archive or delete any data that is no longer needed. This will decrease the migration downtime. The relevant tables are the following:

- Inventory valuation tables: MBEWH, EBEWH, QBEWH, OBEWH
- Material ledger inventory tables (only relevant if material ledger was active before SAP S/4HANA migration): CKMLPP, CKMLCR
- Purchase order history tables: EKBE, EKBEH, EKBZ, EKBZH
- Production order history tables: MLAUFCR, MLAUFCRH

The migration activities are parallelized using background jobs. Make sure that enough background jobs are available.
During parallelization, a standard package size of 20,000 is used in all material ledger migration activities. You may adapt this size by setting user parameter FML_MIG_PKG_SIZE.

This makes sense e.g. in case step M10 causes issues in Physical Memory of the system, like Runtime Error ‘TSV_NEW_PAGE_ALOC_FAILED’ (SAPLCKMS).

To do so go to transaction SU3 / Tab "Parameters" -> set parameter FML_MIG_PKG_SIZE to value 5000 (example) for the user, who is running step M10 in transaction FINS_MIG_STATUS.

After that Step M10 can be repeated in transaction FINS_MIG_STATUS ->‘Control’ Tab -> set Cursor on line with step M10 -> press button ‘Next Activity’ -> Resume Migration.

Other Terms

Migration On-Premise

17.5 S4TWL - Differentiation Category Dependent FS Datasets Not Available in S/4HANA

Application Components:FS-BP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2448350</td>
<td>S4TWL - Differentiation Category Dependent FS Datasets Not Available in S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to S/4 HANA On Premise 1610 or higher. In this release differentiation-category dependent Financial Services data cannot be read or maintained any more.

Reason and Prerequisites

The recommended general replication service for distribution of business partners between systems (BusinessPartnerSUITEBulkReplicateRequest) does not support the header attribute "Differentiation Category". This means that through this replication service, differentiation-category dependent data cannot be processed, as long as these
data depend on the differentiation category header attribute of the business partner. Because of this within Financial Services extension of SAP Business Partner the following datasets will not be maintainable any more with a differentiation category:

- BP1012 - Ratings
- BP1013 - Differentiated Attribute
- BP3100 - Additional information

Differentiation-Category dependent maintenance within Financial Services Business Partner roles (for example, FS0003) is not possible any more.

Note that differentiation-independent maintenance of the three datasets is (of course) still possible.

Solution

Description

Differentiation Category Dependent FS Datasets Not Available in S/4HANA.

Business Process related information

Differentiation category dependent datasets can save data depending on so-called differentiation categories (for example, different affiliates of a company - each affiliate could save a separate rating for the business partner). This was possible for Ratings (database table BP1012), Additional Information (database table BP3100) and Differentiated Attributes (database table BP1013).

Required and Recommended Action(s)

No action necessary when no differentiation category dependent data have been used in former release. Only customers who have used differentiation category dependent datasets in pre-upgrade release might have the need for taking actions. For all other customers the differentiation-category dependent datasets must not be used.

How to Determine Relevancy

This is relevant for all S/4HANA customers who have used differentiation-category dependent datasets in the former releases. This can be checked by executing the "number of entries" function in transaction SE16 for all three mentioned database tables with the following selection criteria:

Select "not equal to" space in the corresponding differentiation category field (DFTVAL for table BP1013, DIFTVAL for table BP1012, CRITER for table BP3100) and
press button "number of entries". If at least one entry is found in any of the tables there was a usage of differentiation-category dependent data.

Exception: Customers who have used application Credit Management may have differentiation-category dependent data in tables BP1012 and BP3100. These customers can continue to use credit management and maintain differentiation-category dependent data. The restriction is only valid for customers who do not use credit management.

Activities

Customers who have differentiation-category dependent data in one or more of the three tables should check if these entries are still needed. Only in case this question is answered with yes the differentiation-dependency can be re-activated by executing the following steps:

1. Call up transaction SM30, enter view V_BPCONSTANTS and click Change.
2. Select constant 'FSDT' and enter constant value '1'.
3. Save the entry.

With this, the differentiation-category dependent datasets are available again in all channels (BDT - transaction BP and direct input, BAPI/API, FSBP_READ-function modules).

Additional Information

The restriction that the differentiation category header attribute is not supported by the central replication service has been considered in the simplification implementation. Even if a customer re-activates the differentiation-category dependent datasets, they are not dependent on the existence of a role in table BUT100 with filled key field DFVAL. With this the data can be replicated to other systems of a system landscape.

Other Terms

Financial Services Business Partner, FSBP, FS-BP, Ratings, BP1012, Differentiated Attribute, BP1013, Additional Information, BP3100, Differentiation Category, Differentiation Criterion

17.6 S4TWL - Product Design Cost Estimate

Application Components:FIN-BA

Related Notes:
Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 2442292 | S4TWL - PDCE - Product Design Cost Estimate

Symptom
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites
This note is relevant for you if your start release for the system conversion is SAP ERP 6.0 or any enhancement Package or SAP ERP 6.0 or SAP S/4HANA Finance and if you are using PDCE functionality.

Solution
Description
The PDCE solution is not available in SAP S/4HANA. Reason for this is that even in SAP ERP this solution was barely used by customers anymore and customers had moved to the recommended successor solution (SAP Product Lifecycle Costing or PLC) which is also available in SAP S/4HANA.

Business Value
The recommended successor solution (SAP Product Lifecycle Costing or PLC) provides the following advantages compared to PDCE.

- No need to create material master, cost center rates for future periods where customer is not sure if the offer will come
- Integration with SAP ERP and non sap erp systems to load BOMs (e.g. Winchill, or Baan)
- Excel like UI
- Simulation capabilities
- Covering lifecycle years not only calculations at a certain valuation date
- Able to create and combine single calculations with reference calculations on multiple levels
- Using the full fledged BO Suite for analytics
- Integrated in the SAP PLM world

Wide range of easy to use extensibility options
Business Process related information

The product design cost estimate is a solution for planning, monitoring, and optimizing the costs of new products during the planning, design, or quoting phase. The costs of many products are largely determined by engineering. Therefore, you use the product design cost estimate in an early phase of the product life cycle. At that point, the product costs can only be approximately estimated with reference to an incomplete data basis, but you can set the course for the real costs that occur later.

Main transactions not available in SAP S/4HANA on-premise edition

- UAMO Product Design Cost Estimate
- UAMO_REPORTING UAMO Reporting
- UA_CE_REPORT Costing Engine Analysis
- UA_DATABASIS Define Data Basis
- UA_IMG IMG for Costing
- UA_STRUC_MAINT1 Costing Solutions: Structure Maint.

You can see the whole list of affected PDCE transactions in the content which is delivered for PDCE in the custom code check. For more detail please refer to notes 2190420, 2241080 and the AS ABAP documentation.

AS ABAP documentation links are herebelow:

https://help.sap.com/saphelp_nw751abap/helpdata/en/9a/e4c2c072b8479f94f52fb2eed12225/content.htm

https://help.sap.com/saphelp_nw751abap/helpdata/en/34/9d954ade3048bab1ee408ba0da5e83/content.htm

https://help.sap.com/saphelp_nw751abap/helpdata/en/39/ac9e9ec7164040b1bcde1d09e00730/content.htm

Required and Recommended Action(s)

Remove all potential references in your custom code to PDCE objects as these may no longer used any more in SAP S/4HANA. Please use the SAP S/4HANA specific custom code check in SAP code inspector for this purpose.

If you still need a functionality equivalent to PDCE please look into introducing the recommended successor functionality (SAP Product Lifecycle Costing or PLC). For details please see attached documents.
If you had built custom code extensions on top of PDCE please look into if you still need them on (SAP Product Lifecycle Costing or PLC) and if required re-implement them there.

**How to Determine Relevancy**

This Simplification Item is probably relevant for your, if you have activated any of the following business functions:

- `FIN_PDCE_COSTQUOT` Cost and Quotation Management
- `FIN_PDCE_COSTQUOT_CI_1` Cost Estimate and Simulation
- `FIN_PDCE_PI_PDCE` Improved Performance
18. Human Resources

18.1 S4TWL – Compensation Management

Application Components: PA-CM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224317</td>
<td>S4TWL – Compensation Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Compensation Management (PA-CM) functionality is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights. For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 416.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use Compensation Management (PA-CM) functionality anymore. See SAP Note 3091160.

**Solution**

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar functionality is provided with Enterprise Compensation Management (PA-EC) which needs to be implemented. SAP does not provide a standard migration tool.

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.
Additional information for RISE with SAP S/4HANA Cloud, private edition customers:

Enterprise Compensation Management (PA-EC) is not available for RISE with SAP S/4HANA Cloud, private edition customers because this is not part of the offering. See SAP Note 3091160.

How to Determine Relevancy

This Simplification Item is relevant if you have entries in tables PA0380 or PA0381. That indicates that you are using the old Compensation Management (PA-CM). If you already use Enterprise Compensation Management (PA-EC), this simplification item is not relevant.

Other Terms

Compensation Management, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, PA0380, PA0381

18.2 S4TWL – Personnel Cost Planning

Application Components: PA-CM-CP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224288</td>
<td>S4TWL – Personnel Cost Planning</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Personnel Cost Planning (PA-CM-CP) functionality is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix
document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 132; 137.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use Personnel Cost Planning (PA-CM-CP) functionality anymore. See SAP Note 3091160.

**Solution**

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with Personnel Cost Planning and Simulation (PA-CP) which needs to be implemented. SAP does not provide a standard migration tool.

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

**How to Determine Relevancy**

This Simplification Item is relevant if you have entries in tables T77KD or HRP1015. That indicates that you are using the old Personnel Cost Planning (PA-CM-CP). If you already use Personnel Cost Planning and Simulation (PA-CP), this simplification item is not relevant.

**Other Terms**

Personnel Cost Planning, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, T77KD

### 18.3 S4TWL – HR Employee Interaction Center

Application Components:PA-EIC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224334</td>
<td>S4TWL – HR Employee Interaction Center</td>
</tr>
</tbody>
</table>

**Symptom**
The following SAP S/4HANA Transition Worklist item is applicable in the following cases:

- You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to use **HCM in Compatibility Pack**
- You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to use **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA)

**Reason and Prerequisites**

The Employee Interaction Center (PA-EIC) functionality is only available in SAP ERP HCM. It is already not part of the SAP HCM in Compatibility Pack, see also SAP S/4HANA Feature Scope Description.

**Business Process related information**

After the conversion to SAP S/4HANA, it is not allowed to use Employee Interaction Center anymore.

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use EIC (PA-EIC) functionality anymore. See SAP Note 3091160.

**Solution**

Before the conversion to SAP HCM for SAP S/4HANA 2022 or higher, check whether the old functionality is used or not. If not, there are no further actions. If the functionality is used and still required, please be aware that there is no alternative available. Keep in mind that a similar functionality is provided with

1. Interaction center / help desk applications offered by SAP S/4HANA (CRM-S4-IC) or SAP CRM (CRM-CIC)
2. SAP Service Cloud
3. SAP SuccessFactors Employee Central Service Center

which needs to be implemented. You also have the choice to stay on SAP ERP HCM its expiry date.

**How to Determine Relevancy**

This Simplification Item is relevant if Business Function HCM_EIC_CI_1 is activated and transaction HREIC is executed. That indicates that you are using the Employee Interaction Center (PA-EIC).
Other Terms

HREIC, Employee Interaction Center, EIC, PA-EIC, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

18.4 S4TWL – Enterprise Services Personnel Administration

Application Components: PA-PA-SOA, PT-SOA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224335</td>
<td>S4TWL – Enterprise Services Personnel Administration</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 and want to use SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Enterprise Services from packages PAOC_PAD_SE_PROXY (Personnel Administration) and PAOC_TIM_SE_PROXY (Time Management) are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 419.

Business Process related information

After the activation of SAP HCM for SAP S/4HANA it is not allowed to use the Enterprise Services from packages PAOC_PAD_SE_PROXY (PA-PA-SOA) and PAOC_TIM_SE_PROXY (PT-SOA). See SAP Note 3091160.

Solution
Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If yes, please note that there is no alternative functionality.

**How to Determine Relevancy**

This Simplification Item is relevant if business function HCM_SRV_CI_2 is activated. That indicates that you are using Enterprise Services.

**Other Terms**

Enterprise Services, PA-PA-SOA, PT-SOA, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

### 18.5 S4TWL – Expert Finder

Application Components: PA-XF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224305</td>
<td>S4TWL – Expert Finder</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The Expert Finder (PA-XF) functionality is only available in SAP ERP HCM and was already not part of SAP HCM in Compatibility Pack in SAP S/4HANA.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the Expert Finder functionality anymore. See SAP Note [3091160](#).

**Solution**
Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If yes, please note that there is no alternative functionality.

You also have the choice to stay on SAP ERP HCM until its expiry date.

**How to Determine Relevancy**

This Simplification Item is relevant if you have entries in tables HRP5030 and/or HRP5031. That indicates that you are using the Expert Finder (PA-XF).

**Other Terms**

Expert Finder, SAP HCM for SAP S/4HANA, PEXP

**18.6 S4TWL – Funds and Position Management**

Application Components: PA-PM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224336</td>
<td>S4TWL – Funds and Position Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The old parts of HR Funds and Position Management(PA-PM) are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note [2269324](#). In the Compatibility Scope Matrix document attached to SAP Note [2269324](#), this topic is listed under the Compatibility Scope Matrix Item ID 424.
Business Process related information

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the old parts of HR Funds and Position Management (PA-PM) functionality anymore. See SAP Note 3091160.

Solution

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the old functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with Position Budgeting and Control (PA-PM-PB), which needs to be implemented. There is no automated migration path. You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

How to Determine Relevancy

This Simplification Item is relevant if you have any entries in filed BSTAT of table table HRP1500. That indicates that you are using or have used old HR Funds and Position Management. If you already use Position Budgeting and Control (PA-PM-PB), this simplification item is not relevant.

Other Terms

HR Funds and Position Management, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

18.7 S4TWL – HCM Processes and Forms JAVA and Adobe

Application Components:PA-AS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224318</td>
<td>S4TWL – HCM Processes and Forms JAVA, WDA with Adobe</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

Java / Adobe Forms

HCM Processes and Forms JAVA and Adobe (PA-AS) functionality is only available in SAP ERP HCM. HCM Processes and Forms JAVA is not part of SAP S/4HANA as NW AS Java is no longer supported. See SAP Note 2560753.

WebDynpro ABAP / Adobe Forms

HCM Processes and Forms based WebDynpro ABAP with Adobe form technology is part SAP HCM in Compatibility Pack in SAP S/4HANA only, which comes with limited usage rights. See SAP Note 3006433.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 137.

Business Process related information

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use HCM Processes and Forms based WebDynpro ABAP with Adobe form technology anymore. See SAP Note 3091160.

Solution

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with SAP HCM Processes and Forms based on Fiori or WebDynpro ABAP (without Adobe).

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

How to Determine Relevancy

This Simplification Item is relevant if report RPASR_RPT_START_TX_PASR_WD is executed and/or the following WDA services are in use:

Check in table ICFSERVLOC if field ICF_NAME and ICFACTIVE = X

ICF_NAME
P8K00070
EH400065
EH4000164
EH4000132
P8K00043
EH500079
P8K00073
P8K00071
EH4000160

That indicates that you are using the HCM Processes and Forms based on JAVA and/or Adobe. If you already use SAP HCM Processes and Forms based on Fiori or WebDynpro ABAP (without Adobe), this simplification item is not relevant.

Other Terms

HCM Processes and Forms with Adobe, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

18.8 S4TWL – Landing Pages and Suite Page Builder

Application Components: PA-PAO, CA-UI2-AR-FE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224337</td>
<td>S4TWL – Landing Pages and Suite Page Builder</td>
</tr>
</tbody>
</table>

Symptom

The following SAP S/4HANA Transition Worklist item is applicable for the following cases:

- You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to use **HCM in Compatibility Pack**
- You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to use **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA).

Reason and Prerequisites
Suite Page Builder is the foundation for the HR Renewal landing pages. The landing pages are web-based UIs and were used to provide a single point of access to employee and organizational master data.

The Suite Page Builder & Landing Pages for HR Renewal are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in S/4HANA up to **Release 2021**.

**With S/4HANA Release 2022** the Suite Page Builder & Landing Pages for HR Renewal become obsolete and will be no longer supported.

In the Compatibility Scope Matrix document attached to SAP Note [2269324](https://www.sap.com), this topic is listed under the Compatibility Scope Matrix Item ID 137.

**Business Process related information**

After the conversion or upgrade to SAP S/4HANA 2022 or higher, on-premise edition technically it will not be possible to use the HR Renewal Landing Pages and the Suite Page Builder. See SAP Note [3091160](https://www.sap.com).

**Required and Recommended Action(s)**

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions.

If the functionality is used and still required, a similar function is provided with the Fiori role for HR Specialist. See also SAP Roadmap items:

- [HR Specialist role](https://www.sap.com)
- [Employee Search app](https://www.sap.com)
- [Employee Actions app](https://www.sap.com)

The new role follows the latest UX strategy from SAP by using an SAP Fiori role instead of HR Renewal Landing Pages based on the Suite Page Builder.

Please note: the Web Dynpro ABAP services to maintain employee related data are still supported and will be incorporated into the new HR Specialist role.

**Solution**

**How to Determine Relevancy**

This Simplification Item is relevant if you have entries in table ICFSERVLOC

- field ICF_NAME = ARSRVC_SPB_ADMN and field ICFACTIVE = X
- field ICF_NAME = ARSRVC_SUITE_PB and field ICFACTIVE = X
That indicates that you are using the HR Renewal Landing Pages and the Suite Page Builder.

If you are not using HR Renewal Landing Pages and the Suite Page Builder, this simplification item is not relevant.

**Other Terms**

HR Administrator, HR Professional; Landing Page, HR Renewal, Suite Page Builder, Compatibility Package, SAP HCM for SAP S/4HANA

**18.9 S4TWL – HCM Obsolete Packages**

Application Components: PA-PA-XX, PA-PA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224319</td>
<td>S4TWL – HCM Obsolete Package</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The packages PDEL, PZ1R, PBAS_BPO are only available in SAP ERP HCM

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it is not allowed to use functionality out of these packages anymore. See SAP Note 3091160.

**Solution**

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check manually whether functionalities out of these packages are used or not. If not, there are no further actions. If functionalities out of these packages are required, please copy the packages to customer namespace. Please keep in mind that SAP will not support customer owned code.
You also have the choice to stay on SAP ERP HCM until its expiry date.

**How to Determine Relevancy**

This Simplification Item is relevant if you use functionalities out of these packages.

**Other Terms**

PDEL, PZ1R, PBAS_BPO, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

**18.10S4TWL - General HCM Approach within SAP S/4HANA**

Application Components: PY-XX, PA-BC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273108</td>
<td>S4TWL - General HCM Approach within SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA and use SAP HCM in S/4HANA in the Compatibility Pack. You also like to continue using HCM functionality on-premise beyond the limited usage rights of the compatibility scope. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

SAP ERP HCM is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope, it’s expiry date and links to further information please refer to SAP Note 2269324 – Compatibility Scope Matrix for SAP S/4HANA on-premise. In the compatibility matrix attached to SAP Note 2269324, SAP ERP HCM component refers to the IDs 101, 117, 132, 414-420 and 422-424.

SAP S/4HANA customers using HCM functionality on-premise can therefore continue using SAP ERP HCM in the so-called Compatibility Mode. HCM functionality can run in either a separate instance or single instance with SAP S/4HANA. The integration among both on-premise instances (SAP ERP HCM with SAP S/4HANA on-premise) is available
via ALE in case SAP ERP HCM is running on separate instance. In case HCM functionality is running inside of SAP S/4HANA, then the integration is automatically given as part of Compatibility Mode.

Before expiry of the compatibility pack license, customers are required to migrate from SAP HCM Compatibility Pack in SAP S/4HANA to the designated alternative functionalities SAP SuccessFactors or SAP Human Capital Management for SAP S/4HANA (SAP HCM for SAP S/4HANA). SAP HCM for SAP S/4HANA is available since SAP S/4HANA release 2022 and based on SAP ERP HCM with optimizations and selected innovations to leverage SAP S/4HANA. The planned scope matches the key functionality of SAP ERP HCM. Please find more information about the key functionality of SAP HCM for SAP S/4HANA in this blog post. Please keep in mind that some of the known SAP HCM ERP functionality is not part of SAP HCM for SAP S/4HANA, see SAP Note 3091160. Customers can run SAP HCM for SAP S/4HANA either embedded or on a separate SAP S/4HANA on-premise instance.

As SAP SuccessFactors remains the primary focus of our HCM innovation at SAP, there are no plans for major additional functionality or re-architectures. It is intended as a bridge to give customers additional time to move to SAP SuccessFactors.

Additional information for RISE with SAP S/4HANA Cloud, private edition customers:

All talent solutions are not part of the offering. For more details see SAP Note 3091160.

Business Process related information

SAP SuccessFactors remains the primary focus of our HCM innovations and is therefore the go-to architecture in the HCM area. For customers who are not willing or able to move to SAP SuccessFactors in the near future, continuity and investment protection for HCM functionality on-premise is provided via SAP HCM for SAP S/4HANA.

Required and Recommended Action(s)

SAP S/4HANA customers can use SAP ERP HCM until the expiry date of the compatibility pack license. Afterwards a migration to SAP HCM for SAP S/4HANA is required. If the current HCM configuration is affected by one or more simplifications (see SAP Note 3091160), the affected functionalities must be replaced by their alternatives, if applicable. Alternatively, customers can move to SAP's HCM go-to solution SAP SuccessFactors. To assist in scoping and planning the transformation to SAP SuccessFactors solutions, see SAP Note 3193560 - SAP Readiness Check for SAP SuccessFactors Solutions.”
18.11S4TWL – Recruiting

Application Components: PA-RC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224353</td>
<td>S4TWL - SAP Recruiting</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate **SAP Human Capital Management for SAP S/4HANA** edition (in the following referred to as SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

SAP Recruiting (PA-RC) functionality is only available in SAP ERP HCM and SAP HCM in the Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 421.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the SAP Recruiting functionality anymore. See SAP Note 3091160.

**Solution**

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with SAP E-Recruiting in SAP HCM for SAP S/4HANA or SAP SuccessFactors Recruiting Management which needs to be implemented.

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry date.
Additional information for customers using RISE with SAP S/4HANA Cloud, private edition:

SAP E-Recruiting is not available for RISE with SAP S/4HANA Cloud, private edition customers because this is not part of the offering. See SAP Notes 3091160 and 2383888.

How to Determine Relevancy

This simplification item is relevant if you have entries in the table PB4000 or transactions starting with PB* are executed. That indicates that you are using SAP Recruiting (PA-RC). If you already use SAP E-Recruiting or an alternative solution such as SAP SuccessFactors Recruiting, this simplification item is not relevant.

Other Terms

SAP Recruiting, PA-RC, Compatibility Scope, Compatibility Pack, SAP HCM for SAP S/4HANA, PB4000, PB00, PB10, PB20, PB30, PB40, PB50

18.12S4TWL – Obsolete Payroll Reports

Application Components: PY-XX

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224325</td>
<td>S4TWL – Obsolete Payroll Reports</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Payroll Posting

Reports RPCIPE00_OLD, RPCIPE00_OLD_CE, RPCIPI00, RPCIPX00, RPCIPT00, RPCIPL00 and RPCIPM00 are only available in SAP ERP and not part of SAP HCM in Compatibility Pack in SAP S/4HANA. See SAP Note 3145947.

Payroll
Reports RPCS0000 and RPCSC000 are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 117.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to execute these reports anymore. See SAP Note 3091160.

**Solution**

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the reports are used or not. If not, there are no further actions. If the reports are used and still required, a similar function is provided which needs to be implemented. SAP does not provide a standard migration tool.

<table>
<thead>
<tr>
<th>Old Report</th>
<th>Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>TemSeFuntionality</td>
<td>On-premise:</td>
</tr>
<tr>
<td>RPCIPI00</td>
<td>Distribution via ALE (SAP S/4HANA OP)</td>
</tr>
<tr>
<td>RPCIPX00</td>
<td>Cloud:</td>
</tr>
<tr>
<td>RPCIPT00</td>
<td>Web Service in case FIN runs in SAP S/4HANA Cloud for payroll posting</td>
</tr>
<tr>
<td>RPCIPL00</td>
<td></td>
</tr>
<tr>
<td>RPCIPM00</td>
<td></td>
</tr>
<tr>
<td>RPCIPE00_OLD</td>
<td>RPCIPE00/01</td>
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<tr>
<td>RPCIPE00_OLD_CE</td>
<td>RPCIPE00, RPCIPE01_CE</td>
</tr>
<tr>
<td>RPCIPE01_CE</td>
<td>RPCIPE01_CE (no functional change - see SAP Note 3146771)</td>
</tr>
<tr>
<td>RPCS0000</td>
<td>Process model(s) using the process workbench (transactions PEST and PUST)</td>
</tr>
<tr>
<td>RPCSC0000</td>
<td></td>
</tr>
</tbody>
</table>

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

**How to Determine Relevancy**

This Simplification Item is relevant if you execute the reports mentioned in that SAP Note. That indicates that you are using these reports. If you already use the alternatives, this simplification item is not relevant.

**Other Terms**
RPCS0000, RPCSC000, RPCIPE00_OLD, RPCIPE00_OLD_CE, RPCIPI00, RPCIPX00, RPCIPT00, RPCIPL00, RPCIPM00, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA,

18.13S4TWL – HR Shared Service Framework

Application Components: CRM-IC-HCM-BF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224338</td>
<td>S4TWL – HR Shared Service Framework</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher, and want to use SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

The Shared Service Framework for HCM-Integration functionality (related to Business Functions HCM_SSC_EIC_1, HCM_SSC_EIC_2, HCM_SSC_EIC_3) incl. integration of E-Recruiting (related Business Functions HCM_ERC_EIC_1, HCM_ERC_EIC_2) is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights. For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 118.

Business Process related information

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use Shared Service Framework for HCM-Integration functionality anymore. See SAP Note 3091160.

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the old functionality is used or not. If not, there are no further actions. If the
functionality is used and still required, please be aware that there is no alternative available. Keep in mind that a similar functionality is provided with:

1. SAP Shared Service Framework for S/4HANA
2. SAP CRM
3. SAP SuccessFactors Employee Central Service Center

which needs to be implemented. You also have the choice to stay on SAP ERP HCM its expiry date.

**How to Determine Relevancy**

This Simplification Item is relevant if Business Functions HCM_SSC_EIC_1 (+ HCM_SSC_EIC_2, HCM_SSC_EIC_3) and HCM_ERC_EIC_1 (+ HCM_ERC_EIC_2) are activated. That indicates that you are using the Shared Service Framework for HCM-Integration.

**Other Terms**

Shared Service Framework for HCM, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, HCM_SSC_EIC_1

**18.14S4TWL – Training and Event Management**

Application Components: PE

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224320</td>
<td>S4TWL – Training and Event Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**
Training and Event Management functionality is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 135 & 136.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the Training and Event Management functionality anymore. See SAP Note 3091160.

**Solution**

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with SAP Learning Solution (PE-LSO) in SAP HCM for SAP S/4HANA or SAP SuccessFactors Learning which needs to be implemented.

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

**Additional information for RISE with SAP S/4HANA Cloud, private edition customers:**

SAP Learning Solution (PE-LSO) is not available for RISE with SAP S/4HANA Cloud, private edition customers because this is not part of the offering. See SAP Note 3091160.

**How to Determine Relevancy**

This Simplification Item is relevant if transactions PSV1, PSV2, PSV3 or PVCT are executed. That indicates that you are using Training and Event Management. If you already use SAP Learning Solution (PE-LSO) or SAP SuccessFactors Learning, this simplification item is not relevant.

**Other Terms**

Training and Event Management, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, PSV1, PSV2, PSV3, PVCT
18.15S4TWL – Workforce Viewer

Application Components: PA-PAO-WFV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224339</td>
<td>S4TWL – Workforce Viewer</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Workforce Viewer functionality is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item IDs 137, 417 and 420.

Business Process related information

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the Workforce Viewer functionality anymore. See SAP Note 3091160.

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with My Team and Organizational Chart App (Fiori Apps for Managers) or SAP SuccessFactors Employee Central (for e.g. customers having an already existing hybrid HR architecture) which needs to be implemented. Further information for My Team (Fiori App for Managers) can be found on SAP Help:

- My Team Fiori 2.0
https://help.sap.com/viewer/c6c3ffd90792427a9fee1a19df5b0925/2021.000/en-US/f1ff00d3a2cb40e3b318a6c8442fc129.html

- Organizational Chart App (on roadmap)

**Roadmap Explorer**

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

**How to Determine Relevancy**

This Simplification Item is relevant if Business Function HCM_PD_ORGVIS_1 is activated. That indicates that you are using Workforce Viewer.

**Other Terms**

Workforce Viewer, WFV, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

**18.16S4TWL – HIS and Structural Graphic**

Application Components: PA-IS, BC-BMT-OM, BC-BMT-OM-GRF

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224340</td>
<td>S4TWL – HIS and Structural Graphic</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

HR Information System (PA-IS) and Structural Graphic (BC-BMT-OM-GRF) functionality is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.
For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 132, 137.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use HIS (PA-IS) and Structural Graphic (BC-BMT-OM-GRF) functionality anymore. See SAP Note 3091160.

**Solution**

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If yes, please note that there is no alternative functionality.

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

**How to Determine Relevancy**

This Simplification Item is relevant if you execute transaction PPIS. That indicates that you are using the HR Information System (PA-IS) and Structural Graphic (BC-BMT-OM-GRF)

**Other Terms**

HR Information System, HIS, Structural Graphic, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, PPIS

**18.17S4TWL – Parts of Time Management**

Application Components: PT-EV, PT-RC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224341</td>
<td>S4TWL – Parts of Time Management</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Several Infotypes, related reports, BAdIs, function modules and operations of SAP Timedata Recording and Management (PT-RC) and SAP Time Evaluation (PT-EV) are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

Details can be found in the following SAP Notes:

- [3139908](https://launchpad.support.sap.com/#/notes/3139908) – Functionality no longer available in Time Data Recording and Management (PT-RC)
- [3138281](https://launchpad.support.sap.com/#/notes/3138281) – Functionality no longer available in Time Evaluation (PT-EV)

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note [2269324](https://launchpad.support.sap.com/#/notes/2269324). In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID132, ID137.

**Already obsolete functionality in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA:**

Two BAdIs and the integration of external time recording systems (interface CC1 (KK1)) won’t be available with S/4HANA Release 2022. For more details refer to:

- [3140931](https://launchpad.support.sap.com/#/notes/3140931) - Integration of external time recording systems: Interface CC1 (KK1) no longer available
- [3138644](https://launchpad.support.sap.com/#/notes/3138644) - BAdIs no longer available in attendance/absence counting

**Business Process related information**

- Related to SAP HCM for SAP S/4HANA

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the functionality mentioned in SAP Notes [3139908](https://launchpad.support.sap.com/#/notes/3139908) and [3138281](https://launchpad.support.sap.com/#/notes/3138281)

- Related to HCM in Compatibility Pack

After the upgrade to SAP S/4HANA 2022 it will technically not be possible to use the functionality mentioned in SAP Notes [3140931](https://launchpad.support.sap.com/#/notes/3140931) and [3138644](https://launchpad.support.sap.com/#/notes/3138644) as it is already obsolete.
Solution

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used, please refer to the corresponding SAP Notes mentioned above for the similar functionality.

How to Determine Relevancy

This Simplification Item is relevant if you have entries in tables:

| CC1PAR KANAL =1 and CCVER = 1 and/or 2 |
| PA0005 |
| PA0083 |
| PA2005 |
| T77S0 GRPID = TIMGT and SEMID = PT40 and GSVAL = X |
| **V_EXT_ACT** EXIT_NAME = TIM00ABSCOUNTRY_DAY and IMPNAME = Y* and/or Z* |
| **V_EXT_ACT** EXIT_NAME = TIM00ATTABSCOUNTING and IMPNAME = Y* and/or Z* |

Other Terms

- PT-RC, PT-EV, IT0005, IT0083, IT2005, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, Time Management, Time Evaluation, Infotypes, Reports, Function Modules, RPTIME00, UPDLE, HRS1H, HRS1Q, VARST, TIMQU, TQUxx; KK1, HR-PDC, PT41, PT42, PT43, PT44; BADI, attendance counting, absence counting, PT_ABS_ATT_COUNTRY, TIM00ATTABSCOUNTING, TIM00ABSCOUNTRY_DAY

18.18S4TWL - SuccessFactors Employee Central Integration

Application Components: LOD-EC-INT-EE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3255864</td>
<td>S4TWL – SuccessFactors Employee Central Integration</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher. The following SAP S/4HANA Transition Worklist item is applicable in this case if add-on product SFSF EC INTEGRATION (incl. software component PA_SE_IN) is installed in the system.

**Reason and Prerequisites**

For the integration of SAP S/4HANA with SAP SuccessFactors Employee Central for core HR SAP provides product SFSF EC INTEGRATION as an add-on to SAP S/4HANA. This product includes to the following main components:

- **PA_SE_IN** – used for replication of organizational and employee master data to SAP SuccessFactors Employee Central
- **ODTFINCC** – used for the replication of cost center data to SAP SuccessFactors Employee Central

With SAP S/4HANA 2022 or higher the new add-on product SFSF EC S4 HCM INTEGRATION (incl. software component ECS4HCM) is released. SFSF EC S4 HCM INTEGRATION is the successor of SFSF EC INTEGRATION. It can be installed independently of SAP HCM in Compatibility Pack or SAP HCM for SAP S/4HANA. The prerequisite is only SAP S/4HANA 2022 or higher. Please refer to SAP Note 3250816.

**Business Process related information**

As of release SAP S/4HANA 2022 add-on SFSF EC INTEGRATION (PA_SE_IN) has status deprecated for usage with SAP S/4HANA. This means, customers who already use SFSF EC INTEGRATION can continue to use the add-on until SAP S/4HANA release 2023. After the conversion or upgrade to SAP S/4HANA 2022 or 2023 it is not mandatory to directly install the new product SFSF EC S4 HCM INTEGRATION (ECS4HCM). However, SFSF EC INTEGRATION will only be released up to SAP S/4HANA 2023 and not for subsequent SAP S/4HANA releases. For more information, see the following table and please refer SAP Note 3250816:

<table>
<thead>
<tr>
<th>SAP S/4HANA Release</th>
<th>PA_SE_IN</th>
<th>ECS4HCM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2022</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2023</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>2025</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>2027</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For more information about the product SFSF EC S4 HCM INTEGRATION please refer to this [SAP Blog Post](https://help.sap.com).
Please note: SFSF EC S4 HCM INTEGRATION does not contain a component for cost center replication. As alternative for ODTFINCC you can use SAP Master Data Integration (MDI) for cost center replication to SAP SuccessFactors Employee Central. For integration to other SAP HCM in Compatibility Pack or SAP HCM for SAP S/4HANA systems you can also use IDOC COSMAS.

However, because components PA_SE_IN and ODTFINCC are separately installable instances of product SFSF EC INTEGRATION, you could keep ODTFINCC when migrating PA_SE_IN to ECS4HCM in SAP S/4HANA releases 2022 and 2023. With SAP S/4HANA 2025, though, ODTFINCC will no longer be provided as well.

Solution

It is strongly recommended to replace the product SFSF EC INTEGRATION (PA_SE_IN) with SFSF EC S4 HCM INTEGRATION (ECS4HCM). In the Software Update Manager (SUM) it is possible to select the installation of SFSF EC S4 HCM INTEGRATION. With the installation of the new product SFSF EC S4 HCM INTEGRATION, SFSF EC INTEGRATION (PA_SE_IN) will be replaced automatically. Please note: After the installation of the new product SFSF EC S4 HCM INTEGRATION a mandatory migration with manual activities must be executed. The guides for product SFSF EC S4 HCM INTEGRATION can be found on SAP Help. The implementation guide for upgrading from PA_SE_IN to ECS4HCM for Data Replication from Employee Central can be found on SAP Help.

It is also recommended to replace the ODTFINCC cost center replication add-on with cost center replication using SAP Master Data Integration (MDI). The documentation for cost center replication using the SAP Master Data Integration service running on the SAP Business Technology Platform can be found on SAP Help. For integrating SAP SuccessFactors Employee Central with SAP Master Data Integration the documentation can be found on SAP Help.

How to Determine Relevancy

This Simplification Item is relevant if you have an entry in table CVERS – Component PA_SE_IN

Other Terms

SFSF EC INTEGRATION, PA_SE_IN, SFSF EC S4 HCM INTEGRATION, ECS4HCM, ODTFINCC, Cost Center Replication, MDI, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA
18.19S4TWL – Australia Public Sector ESS Not Supported in JAVA Technology

Application Components:PA-PA-AU

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3238213</td>
<td>S4TWL – Australia Specific Public Sector ESS Not Supported in JAVA Technology</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher, on-premise edition and want to use SAP Human Capital Management for SAP S/4HANA, on-premise edition (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

SAP S/4HANA does not contain the NetWeaver Application Server for Java (AS Java), therefore the Java-based ESS and MSS scenarios cannot be used in Compatibility Mode nor in SAP HCM for SAP S/4HANA.

Other ESS /MSS technologies not supported with Compatibility Pack and /or SAP HCM for SAP S/4HANA.

In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 417, 420.

ESS/MSS functionality has changed over time. Note that some technologies have already been replaced in former releases and others will no longer be available under SAP HCM for SAP S/4HANA. Refer to the SAP Note 2383879 for more information.

Reason and Prerequisites

ESS/MSS on WD Java (already replaced)

Java-based ESS and MSS are already not available in Compatibility Mode, see SAP Note 2383879. For more details on the Compatibility Pack and its expiry date and links to further information refer to SAP Note 2269324. You can also refer to SAP Note 3091160 for more information on SAP HCM for SAP S/4HANA- General Approach and Strategy.

The Australia specific Public Sector HCM applications affected are as follows:
• Superannuation Australia PS (0507)
• Absence for Australia PS (0573)
• Activity with Higher Rate of Pay (0509)

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether this functionality is used or not. If not, there are no further actions. If the functionality is used and still required, refer to the replacement functionality based on ABAP WebDynpro technology, as described in the SAP Note 3085487.

How to Determine Relevancy

This Simplification Item is relevant if you use former ESS technology listed in the SAP Note 3085487.

Other Terms

Employee Self Service, Manager Self Service, ESS, MSS, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA, 0220, 0507, 0573, 0509, Activity with Higher Rate of Pay, Absence for Australia, Superannuation Australia

18.20S4TWL - Conversion of Employees to Business Partners

Application Components: PY-XX, PA-BC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2340095</td>
<td>S4TWL - Conversion of Employees to Business Partners</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With the conversion to SAP S/4HANA the implementation of the employee business partner is mandatory if HR data (HR infotype based PERNR data model including the
PA-Tables) is needed. The HR data can be locally maintained (for example via transaction PA30 or PA40) or via integration scenarios with SAP HCM as hub implementation, SAP SuccessFactors Employee Central or an external (third party) HCM system.

1. **Constellation SAP HCM embedded in SAP S/4HANA**
   It is mandatory to synchronize employees to employee business partners.

2. **Constellation SAP HCM ERP as hub implementation (non SAP S/4HANA)**
   The synchronization of employees to employee business partners does not take place in the SAP HCM hub system. If the HR mini master record is distributed to connected systems, it is mandatory to synchronize employees to employee business partners in the receiving SAP S/4HANA system(s).

3. **Constellation SAP HCM in SAP S/4HANA as hub implementation**
   The synchronization of employees to employee business partners takes place in the SAP HCM hub system. Additionally, if the HR mini master record is distributed to connected systems, it is mandatory to synchronize employees to employee business partners in the receiving SAP S/4HANA system(s).

4. **Constellation SAP SuccessFactors in a hybrid scenario**
   In a hybrid scenario where employees are maintained in SAP SuccessFactors Employee Central and distributed to SAP S/4HANA system(s) it is mandatory to synchronize employees to employee business partners.

To generate the employee business partners the HCM integration must be activated via the HCM Integration Switch in system table T77S0.

<table>
<thead>
<tr>
<th>Description</th>
<th>Group (GRPID)</th>
<th>Sem. abbr. (SEMID)</th>
<th>HCM Integration inactive</th>
<th>HCM Integration active</th>
</tr>
</thead>
<tbody>
<tr>
<td>Activate HCM Integration</td>
<td>HRALX</td>
<td>HRAC</td>
<td>Space (blank)</td>
<td>X</td>
</tr>
</tbody>
</table>

If the HR mini master is not needed the HCM integration can be deactivated.

As of SAP S/4HANA 2020 OP a new Employee Business Partner Model was introduced. This new model was also provided with Support Packages for the lower releases SAP S/4HANA 1809 OP SP06 and 1909 OP SP04. See SAP Note [2954033](https://support.sap.com/). **It is recommended to use the New Employee Business Partner Model.**

Nevertheless, you can also use the legacy models (VMODE1, VMODE2). For more information regarding legacy employee business partner models please refer to this [blog post](https://example.com) and the integration guide attached to this Note.

**Business Process related information**
The data model in SAP S/4HANA is based on Business Partners (BP). A BP must be assigned to each employee.

**Required and Recommended Action(s)**

After the conversion to SAP S/4HANA, the migration report /SHCM/RH_SYNC_BUPA_FROM_EMPL must be executed before productive use of the system. In case of concerns regarding performance caused by large data volume it is recommended to use report /SHCM/RH_SYNC_BUPA_EMPL_SINGLE for the initial load. Due to customizing dependencies, the reports cannot be executed in technical downtime. For the daily synchronization the report /SHCM/RH_SYNC_BUPA_FROM_EMPL needs to be scheduled. It is recommended to run the report once a day after the initial run in order to synchronize future-dated employee changes to the Business Partner. Non future-dated changes to employee data are synchronized to the Business Partner automatically.

**18.21S4TWL - E-Recruiting Localization for Brazil PS in SAP HCM for SAP S/4HANA**

Application Components: PY-BR-PS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3219250</td>
<td>S4TWL - SAP E-Recruiting Localization for Brazil Public Sector in SAP HCM for SAP S/4HANA (PY-BR-PS)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher, on-premise edition and want to use **SAP Human Capital Management for SAP S/4HANA, on-premise edition** (in the following called SAP HCM for SAP S/4HANA). You are a HCM Brazil Public Sector customer using the existent solution from LOCBRPY Add-On, and you use the SAP E-Recruiting localization for SAP HCM Brazil Public Sector.

In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 134, 421.

For more information about Brazil Public Sector localization for SAP E-Recruiting, refer to SAP Notes 2772355, 2430071, 2364562.
Reason and Prerequisites

SAP E-Recruiting with component ERECRUIT was already in the so-called Compatibility Mode to up to SAP S/4HANA 1709 as described in SAP Note 2383888. Refer to SAP Note 2383888 for more details.

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the Brazil Public Sector localization for SAP E-Recruiting functionality is used or not. If not, there are no further actions. If the functionality is used and still required, each customer needs to plan for an alternate solution.

How to Determine Relevancy

This Simplification Item is relevant if you use the Brazil Public Sector localization for SAP E-Recruiting (ERECRUIT) in the LOCBRPY Add-On. Refer to the above-listed SAP Notes for further information.

Other Terms


18.22S4TWL – Flexible Benefits not supported in ESS technologies

Application Components: PA-BN-FB-GB

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3221404</td>
<td>S4TWL – Flexible Benefits not supported in ESS technologies (PA-BN-FB-GB)</td>
</tr>
</tbody>
</table>

Symptom

Versions:
• 2nd version: general release, released on 07.09.2022.
• 3rd version: text correction, released on 11.01.2023.

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher, on-premise edition and want to use SAP Human Capital Management for SAP S/4HANA, on-premise edition (in the following called SAP HCM for SAP S/4HANA).

The Employee Self Service (ESS) functionality has changed over time. Please note that some technologies have already been replaced in former releases and others will no longer be available under SAP HCM for SAP S/4HANA. Refer to the SAP Note 2383879 for more information.

The Employee Self Service (ESS) solution for the Flexible Benefits for Great Britain functionality (Flexible Benefits for Great Britain) will no longer be available under SAP HCM for SAP S/4HANA.

Reason and Prerequisites

ESS/MSS on WD Java (already replaced)

Java-based ESS and MSS are already not available in Compatibility Mode, see SAP Note 2383879. For more information regarding ESS/MSS please refer to SAP Note 2269324. You can also refer to SAP Note 3091160 for more information on SAP HCM for SAP S/4HANA- General Approach and Strategy.

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the ESS solution for the Flexible Benefits for Great Britain functionality (Flexible Benefits for Great Britain) is used or not.

If not, there are no further actions. If the functionality is used and it is still required, customers need to plan for an alternative solution.

How to Determine Relevancy

This Simplification Item is relevant if you use former ESS/MSS technologies listed above.

For more information regarding ESS/MSS please

Other Terms

Employee Self Service, ESS, SAP HCM for SAP S/4HANA, WebDynpro Java
18.23S4TWL – HR Policy Management - India – Not supported Apps

Application Components: PA-PA-IN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3218356</td>
<td>S4TWL – HR Policy Management - India – Not supported Applications</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher, on-premise edition and want to use SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 417, 420.

**Solution**

ESS/MSS functionality has changed over time. Please note that the below mentioned ABAP Webdynpro applications under HR Policy management application which allows a company to create and manage policy for a company, will no longer be available under SAP HCM for SAP S/4HANA.

**Policy Management:**

HR_IN_P2E_AP_POL_ACTIV_ROLLOUT P2E - Policy rollout and activate
HR_IN_P2E_AP_POL_CREATE - HR Policy Management
HR_IN_P2E_AP_POL_INBOX - Policy Inbox
HR_IN_P2E_AP_POL_REQUEST_EDIT P2E - Edit Policy Request
HR_IN_P2E_AP_POL_REQUEST_NEW P2E - New Policy Request
HR_IN_P2E_AP_POL_REQUEST_SRCH P2E - Policy Request Search
HR_IN_P2E_AP_POL_REQUEST_STAT P2E - Policy Request Status
HR_IN_P2E_AP_POL_WOLIST - HR Policy Management
WD_HR_IN_P2E_REQUEST - dynpro application

**Policy Request Management:**

HR_IN_P2E_AP_REQUEST_URL P2E - Policy Request Screen with URL Parameters
HR_IN_P2E_AP_REQ_APP_STATUS_AC P2E - Request Status (Accessible)
HR_IN_P2E_AP_REQ_INBOX - Request Inbox
HR_IN_P2E_AP_REQ.NEW_H P2E - New policy Request for HR
WD_HR_IN_P2E_REQUEST_APPROVER - Request Approver

Policy Request Approval:
HR_IN_P2E_AP_REQ.NEW_M P2E - New Policy Request MSS
HR_IN_P2E_AP_REQ.SRCH_M P2E - Policy Request Search for Manager
HR_IN_P2E_AP_REQ.SRCH_H P2E - Policy Request Search for HR Administrator
HR_IN_P2E_WF.LEVELS - Workflow Levels and Approvers W1
HR_IN_P2E_FORW_SUBT.P2E - Forward Workitems
HR_IN.P2E_REQ.SETTINGS- Policy Request Settings

Required and Recommended Action(s)

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality (HR Policy Management India | SAP Help Portal) is used or not. If not, there are no further actions. If the functionality is used and still required, customer needs to plan for an alternate solution.

How to Determine Relevancy

This Simplification Item is relevant if you are former user of HR Policy Management – India solutions and you have activated the switch HRLOCIN_SFWS_UI_07.

Other Terms

Employee Self Service, Manager Self Service, ESS, MSS, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

18.24S4TWL – US Effort reporting – Not supported in ESS and MSS technologies

Application Components: PA-PA-US-EFR

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>3218111</td>
<td>S4TWL – US Effort reporting – Not supported in ESS and MSS technologies</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher, on-premise edition and want to use SAP Human Capital Management for SAP S/4HANA, on-premise edition (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

SAP S/4HANA does not contain the NetWeaver Application Server for Java (AS Java), therefore the Java-based ESS and MSS scenarios cannot be used in Compatibility Mode nor in SAP HCM for SAP S/4HANA.

Other ESS /MSS technologies not supported with Compatibility Pack and/or SAP HCM for SAP S/4HANA.

In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 417, 420.

ESS/MSS functionality has changed over time. Note that some technologies have already been replaced in former releases and others will no longer be available under SAP HCM for SAP S/4HANA. Refer to the SAP Note 2383879 for more information.

Reason and Prerequisites

ESS/MSS on WD Java (already replaced)

Java-based ESS and MSS are already not available in Compatibility Mode, see SAP Note 2383879. For more details on the Compatibility Pack and its expiry date and links to further information refer to SAP Note 2269324. You can also refer to SAP Note 3091160 for more information on SAP HCM for SAP S/4HANA- General Approach and Strategy.

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality (Effort Reporting | SAP Help Portal) is used or not. If not, there are no further actions. If the functionality is used and still required, each customer needs to plan for an alternate solution.

How to Determine Relevancy

This Simplification Item is relevant if you use former ESS/MSS technologies listed above.

Other Terms

Employee Self Service, Manager Self Service, ESS, MSS, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA
18.25S4TWL – HCM Obsolete Package - US Federal Public Sector Functions

Application Components: PY-US-PS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>

**Symptom**

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The packages P10PA, PAOC_PAD_US_FD are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights. The functionalities included in these packages will no longer be available under SAP HCM for SAP S/4HANA.

For more details on the Compatibility Pack and its expiry date and links to further information refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 132, 137, 419.

**Business Process related information**

After the activation of SAP HCM for SAP S/4HANA it is not allowed to use functionality out of these packages anymore. See SAP Note 3091160.

The affected transaction codes are listed below.

- HRPBSUSACTION - Nature of Actions
- HRPBSUSACTIONCONFIG - Nature of Action Configuration (4.7)
- HRPBSUSERRCONFIG - Crediting Plan Configuration for ERR

The affected programs are listed below.

- RHLDGRGU0PBS - Random Drug Testing
- RHLRIFU0PBS - Reduction in Force Registers
- RHUFEDU0PBSCPDF - Organizational Component Translations Report
- RPAPS0U0ERR - Electronic Rating and Rankings - Test/Eval Crediting Plan
- RPAPU0ERRCONFIG - ERR Crediting Plan Configuration
- RPUCFGU0 - Core report for defining field sequence in CPDF file
- RPUCFGU1 - Report to define field sequence in dynamic CPDF file
- RPUCFGU2 - Report to define field sequence for status CPDF file
- RPUCFGU3 - Report to configure fields of status CPDF file
- RPUCFGU4 - Report to configure fields for CPDF dynamic file
- RPUFEDU0PBSCPDF - Generates CPDF Status and Dynamic Files
- RPUNAOAU1 - Nature of Action Configuration (4.7)
- RPUNAOAU2 - External report for Nature of Action Validations

The affected Infotypes are listed below.

- 0656 - Nature of Actions
- 0814 - Additional U.S. Federal Information
- 1660 - U.S. Federal Position Attributes (PD infotype)
- 1661 - US Federal Job Classification (PD infotype)

Solution

Required and Recommended Action(s)

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionalities mentioned are in use or not. If not, there are no further actions. If the functionalities are used and still required, each customer needs to plan for an alternate solution.

The Help Portal pages for the mentioned functionalities are listed below.

Federal US Public Sector Functions
Nature of Action (Infotype 0656)
Additional U.S. Federal Information (Infotype 0814)
U.S. Federal Position Attributes (PD Infotype 1660)
US Federal Job Classification (PD Infotype 1661)

How to Determine Relevancy

This Simplification Item is relevant if you use functionalities out of these packages.

Other Terms

P10PA, PAOC_PAD_US_FD, Nature of Actions, Reduction in Force
18.26S4TWL - SAP E-Recruiting

Application Components: PA-ER

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2383888</td>
<td>S4TWL - SAP E-Recruiting with Compatibility Mode and beyond</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA and use SAP E-Recruiting in the Compatibility Mode. You also like to continue using SAP E-Recruiting beyond the limited usage rights of the compatibility scope. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

SAP E-Recruiting is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope, its expiry date and links to further information, please refer to SAP Note 2269324 – Compatibility Scope Matrix for SAP S/4HANA on-premise. The corresponding entry can be found in the Compatibility Scope Matrix via ID 134.

SAP S/4HANA customers using SAP E-Recruiting can therefore continue using SAP E-Recruiting in the so-called Compatibility Mode.

SAP E-Recruiting with component ERECRUIT was technically available in SAP S/4HANA releases 1511, 1610 and 1709. SAP S/4HANA customers using SAP E-Recruiting can therefore continue using SAP E-Recruiting in Compatibility Mode up to SAP S/4HANA 1709. In SAP S/4HANA releases 1809 and higher, ERECRUIT is not available anymore.

A new add-on product version called SAP E-Recruiting for SAP S/4HANA 1.0 has been released on 15.03.2021 for the SAP S/4HANA releases 1809 and higher. This add-on product version is also available for a standalone installation based on ABAP FND 1809 FOR HANA, S/4HANA Foundation release 1909 or higher. This will enable customers to continue using SAP E-Recruiting in SAP S/4HANA in the Compatibility Mode until 2025. Please refer to SAP Note 3029126 – SAP E-Recruiting for SAP S/4HANA: Release Information Note (RIN) for additional information.
With the release of SAP Human Capital Management for SAP S/4HANA (SAP HCM for SAP S/4HANA) in 2022, a new add-on product version called SAP E-Recruiting for SAP S/4HANA 2.0 is part of the product offering. The maintenance support for SAP E-Recruiting after 2025 will continue in SAP HCM for SAP S/4HANA. Please find more information about SAP E-Recruiting for SAP S/4HANA 2.0 in SAP Note 3086299 – SAP E-Recruiting for SAP S/4HANA 2.0: Release Information Note (RIN) and SAP HCM for SAP S/4HANA in SAP Note 2273108 - S4TWL - General HCM Approach within SAP S/4HANA.

**Business Process related information**

SAP SuccessFactors remains the primary focus of our HCM innovations and is therefore the go-to architecture in the HCM area. SAP SuccessFactors Recruiting Management is the go-to solution for recruiting. For customers who are not willing or able to move to SAP SuccessFactors Recruiting Management in the near future, continuity and investment protection for the recruiting functionality on-premise is provided via SAP E-Recruiting for SAP S/4HANA.

**Please note:** SAP E-Recruiting in Compatibility Mode and HCM for SAP S/4HANA is not available in the RISE with SAP S/4HANA Cloud, private edition. If you are planning to move to RISE with SAP S/4HANA Cloud, private edition you need to replace SAP E-Recruiting with SuccessFactors Recruiting Management.

**Required and Recommended Action(s)**

Implement the latest version of SAP Note 2665372 – S4TC SAP E-Recruiting Check for S/4HANA System Conversion to ensure that usage of E-Recruiting is verified during the Readiness Check / Simplification Item Check for S/4HANA Conversion.

Before executing the system conversion of your SAP system running E-Recruiting instance to SAP S/4HANA or SAP S/4HANA Foundation, please read SAP Notes 3086299 – SAP E-Recruiting for SAP S/4HANA 2.0: Release Information Note (RIN) and 3029126 – SAP E-Recruiting for SAP S/4HANA 1.0: Release Information Note (RIN). These notes provide the pre-requisites and the references to the required documentations and guides.

In order to continue using SAP E-Recruiting, the add-on product version SAP E-Recruiting for SAP S/4HANA needs to be part of the target stack for the system conversion to SAP S/4HANA 1809 or higher release. This addon should get automatically added to the target stack by the maintenance planner, if the source stack contains E-Recruiting instance and target stack meets the minimum Support Package Stack (SPS) criteria. Please ensure that this addon is part of your target stack.
If you are using the product versions <any EHP> FOR SAP ERP 6.0 with instances E-
Recruiting or E-Recruiting Standalone or using S/4HANA 1511 or 1610 or 1709 then
choose one of the below as the target product versions:

<table>
<thead>
<tr>
<th>Product Version</th>
<th>Minimum required Support Package Stack (SPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP S/4HANA 1809</td>
<td>SPS 04</td>
</tr>
<tr>
<td>SAP S/4HANA 1909</td>
<td>SPS 02</td>
</tr>
<tr>
<td>SAP S/4HANA 2020 or higher releases</td>
<td>Initial Shipment Stack</td>
</tr>
</tbody>
</table>

If you are using the product versions <any EHP> FOR SAP E-RECRUIT 6.0, then
choose one of the below as the target product versions:

<table>
<thead>
<tr>
<th>Product Version</th>
<th>Minimum required Support Package Stack (SPS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ABAP FND 1809 on HANA (S/4HANA Foundation 1809)</td>
<td>SPS 04</td>
</tr>
<tr>
<td>SAP S/4HANA Foundation 1909</td>
<td>SPS 02</td>
</tr>
<tr>
<td>SAP S/4HANA Foundation 2020 or higher releases</td>
<td>Initial Shipment Stack</td>
</tr>
</tbody>
</table>

There are no application-related actions required to move from SAP E-Recruiting 6.0 to
SAP E-Recruiting for SAP S/4HANA 1.0. SAP E-Recruiting for SAP S/4HANA 1.0 is
functionally equivalent to EHP7/EHP8 of SAP E-Recruiting 6.0. For transitions brought
in SAP E-Recruiting for SAP S/4HANA 2.0, please refer to the product documentation.

Customers running SAP E-Recruiting have the following options:

- Replace SAP E-Recruiting with SuccessFactors Recruiting Management
- Move to SAP E-Recruiting for SAP S/4HANA 2.0 as part of SAP Human Capital
  Management for SAP S/4HANA
  - This option is not available in RISE with SAP S/4HANA Cloud, private edition
- Install SAP E-Recruiting for SAP S/4HANA 1.0 on the above supported base
  product versions to continue in compatibility mode
  - This option is not available in RISE with SAP S/4HANA Cloud, private edition.
18.27S4TWL - ESS and MSS

Application Components: PA-ESS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2383879</td>
<td>S4TWL - ESS and MSS technologies not available in Compatibility Pack and SAP HCM for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

The following SAP S/4HANA Transition Worklist item is applicable in the following cases:

- You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to use **HCM in Compatibility Pack**
- You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to use **SAP Human Capital Management for SAP S/4HANA** (in the following called SAP HCM for SAP S/4HANA)

SAP S/4HANA does not contain the NetWeaver Application Server for Java (AS Java), therefore the Java-based ESS and MSS scenarios cannot be used in Compatibility Mode nor in SAP HCM for SAP S/4HANA.

Other ESS /MSS technologies not supported with Compatibility Pack and /or SAP HCM for SAP S/4HANA.

In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 417, 420.

Solution

Description

ESS/MSS functionality has changed over time. Thus, some ESS/MSS technologies have already been replaced in former releases of SAP EPR HCM, others are not available within Compatibility Pack in SAP S/4HANA nor within SAP HCM for SAP S/4HANA. In this SAP Note you find a summery of non-supported ESS and MSS technologies.

ESS on ITS (already obsolete)
SAP Internet Transaction Server (ITS) is considered to be an old technology. ESS on ITS was already replaced by other technologies. See SAP Note 870126. Therefore, the ITS services for the Employee Self Service (ESS) are also not available within Compatibility Pack in SAP S/4HANA nor within SAP HCM for SAP S/4HANA.

MSS based on HTMLB (already obsolete)

Manager Self Service based on HTMLB was already replaced by other technologies. See SAP Note 1007341. Therefore, the MSS based on HTMLB technology is not available within Compatibility Pack in SAP S/4HANA nor within SAP HCM for SAP S/4HANA.

ESS/MSS on WD Java (already obsolete)

SAP S/4HANA does not contain the NetWeaver Application Server for Java (AS Java), therefore it cannot be used within Compatibility Pack in SAP S/4HANA nor within SAP HCM for SAP S/4HANA. See also SAP Note 2560753. For specific local versions please refer to SAP Note 3217773.

MSS List reports based on ODP

MSS List reports based on ODP are based on an old technology. Therefore, the MSS based on ODP technology is not available within Compatibility Pack in SAP S/4HANA nor within SAP HCM for SAP S/4HANA.

ESS/MSS UI5 (from HR Renewal)

ESS/MSS UI5 known from HR Renewal are not available within SAP S/4HANA as it is unequal SAP Fiori Technology. In addition, the HR Renewal Landing Pages and the Suite Page Builder are not available for SAP S/4HANA 2022 or higher. See SAP Note 3224337.

Business Process related information

SAP recommends using either Fiori Applications or WebDynpro ABAP based services for ESS/MSS. See SAP Note 3091160.

For HCM SAP Fiori apps 2.0, please have a look at the SAP Fiori Apps Reference Library.

Required and Recommended Action(s)

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with Employee Self Service (ESS) and Manager Self-Service (MSS) based on Fiori and WebDynpro ABAP.
(WDA) which needs to be implemented. Further information for Employee Self Service (ESS) and Manager Self-Service (MSS) based on Fiori and WDA can be found on SAP Help:

- Employee Self Service (WDA)
- Fiori Apps in HCM
- Manager Self Service (WDA)

**How to Determine Relevancy**

This Simplification Item is relevant if you use former ESS/MSS technologies listed above.

**Other Terms**

Employee Self Service, Manager Self Service, ESS, MSS, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

**18.28S4TWL - Travel Management SRA004 Simplified Model**

Application Components:FI-TV, FI-FIO-TV

Related Notes:

<table>
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<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>3062197</td>
<td>&quot;S4TWL - HR_SRA004 Simplified Model&quot;</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA On-Premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This note is relevant for you when your start release for the system conversion is an ERP release or below S/4 HANA 2021.

**Solution**

**Description**

The first version of the Fiori application "My Travel Request" aka MTR, corresponding to the Fiori ID F0409, was developped some years ago in Business Suite Technology
Stack. It was available for ERP release ECC6.0 until ECC6.0 EHP8 and S/4 HANA releases until 2020.

A second version of this FIORI application "My Travel Requests Version 2" (MTR V2) with Fiori ID F0409A, is also available since ECC6.0 EHP8. This second application is much more powerfull in term of functionalities and technology.

When you plan a conversion to S/4HANA, there is no reason to keep the first version as the landscape includes by default the second application.

For more information about Travel Management in S/4HANA please read the following note: 2976262 - S4TWL - General Travel Management approach within SAP S/4HANA.

Business Process related information

Implications: Customer roles (menus and authorizations) need to be adjusted in order to display the new Fiori application in the SAP Fiori Launchpad.

All information about Gateway Service and configuration can be found in the SAP Fiori Application library [here](#).

The old Gateway Service can simply be switch off.

There is no data conversion or impact as the change impacts only on the UI.

Required and Recommended Action(s)

If you are using the ODATA Service SRA004_SRV then this simplification item is relevant for you.

The new ODATA Service TRV_MTR_SRV is available and must be registered and activated on the front-end server.

Check - How to Determine Relevancy

Check if the existing Odata Service SRA004_SRV is activated on the Front End Server. If yes perform the simplification Process, the new Odata Service should be TRV_MTR_SRV Now and you should deactivate the obsolete OData Service SRA004_SRV.

You can use the transaction /IWFND/MAINT_SERVICE, one entry can be found with external service name “SRA004_SRV”.

Other Terms
SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade

18.29S4TWL – Managers Desktop

Application Components: PA-MA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224315</td>
<td>S4TWL – Managers Desktop</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Managers Desktop functionality is only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 420.

Business Process related information

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use the Managers Desktop functionality anymore. See SAP Note 3091160.

Solution

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not, there are no further actions. If the functionality is used and still required, a similar function is provided with Manager Self-Service (MSS) based on Fiori and WebDynpro ABAP (WDA) which needs to be implemented. Further information for Manager Self-Service (MSS) based on Fiori and WDA can be found on SAP Help:

- MSS WebDynpro ABAP (WDA)

- Fiori 2.0 Apps for HCM

https://help.sap.com/viewer/c6c3ffd90792427a9fee1a19df5b0925/2021.000/en-US/5d3289588bf89244e10000000a4450e5.html

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

How to Determine Relevancy

This Simplification Item is relevant if transaction PPMDT is executed. That indicates that you are using Managers Desktop.

Other Terms

Managers Desktop, MDT, Compatibility Scope, Compatibility Package, SAP HCM for SAP S/4HANA

18.30S4TWL – Country Version Denmark (PY-DK)

Application Components: PA-PA-DK, PY-DK

Related Notes:

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<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<td>Business Impact</td>
<td>3213848</td>
<td>S4TWL – Simplification of HCM DK (HRDK) Local Version in SAP HCM for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). Also, you run the SAP HCM Local Version for Master data and Payroll for Denmark.

In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 117, 132.

Reason and Prerequisites
SAP HCM for SAP S/4HANA will be part of the initial shipment of SAP S/4HANA 2022 on-premise. It is not the legal successor of SAP HCM. It contains additional/new functionality and also functionality which no longer will be part of SAP HCM for SAP S/4HANA (SAP HCM for SAP S/4HANA is part of SAP Business Suite wide simplification including the principle of one strategy). To inform customers about the simplification in advance, this SAP Note serves as info about simplification related to HCM Denmark. As complete SAP HCM Denmark solution is simplified, you can find list of main objects roofing this simplification in attached document.

Package PC09_SIMPLIFICATION which includes simplified solutions/features/objects/... is part of delivery. Objects of this package should not be used anymore. You can still access master data of your employees in display/delete mode (no create/change possible).

Note: Content of package PC09_SIMPLIFICATION is subject of possible changes and could be extended in future with respect to fact that complete SAP HCM Denmark solution is simplified.

Note: If you are doing a system conversion or upgrade to SAP S/4HANA 2022, on-premise edition and still want to use SAP HCM in compatibility scope you can continue to use all functionalities of the Compatibility Pack. Please keep in mind that usage rights of compatibility packages will expire as outlined in SAP Note 2269324. This means after this point in time the migration to SAP HCM for SAP S/4HANA and the other designated alternative functionalities outlined above must happen immediately with the technical conversion to SAP S/4HANA.

Obsolete functions. Dependent on business function H4S4_1

Solution

The corrections will be delivered by support package / initial installation.

Please keep in mind: This SAP Note can be changed and enhanced from time to time with new information.

Required and Recommended Action(s)

Before the conversion or upgrade to SAP HCM for SAP S/4HANA 2022 or higher, check whether the functionalities mentioned are in use or not. If not, there are no further actions. If the customer functionalities are still using objects/functionalties from PC09_SIMPLIFICATION package, each customer needs to plan for an alternate solution instead.

How to Determine Relevancy

This Simplification Item is relevant if you use functionalities out of PC09_SIMPLIFICATION package.
Other Terms

HCM DK, DK infotypes, DK payroll driver, DK reports, DK IMG, DK SAP Easy Access Menu

18.31S4TWL – Personnel Development

Application Components: PA-PD-AP, PA-PD-DP, PA-PD-SP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3224316</td>
<td>S4TWL – Personnel Development</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or upgrade to SAP S/4HANA 2022 or higher and want to activate SAP Human Capital Management for SAP S/4HANA (in the following called SAP HCM for SAP S/4HANA). The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Appraisal Systems (PA-PD-AP), Development Plans (PA-PD-DP) and Career and Succession Planning (PA-PD-SP), summarized as Personnel Development functionality, are only available in SAP ERP HCM and SAP HCM in Compatibility Pack in SAP S/4HANA, which comes with limited usage rights.

For more details on the Compatibility Pack and its expiry date and links to further information please refer to SAP Note 2269324. In the Compatibility Scope Matrix document attached to SAP Note 2269324, this topic is listed under the Compatibility Scope Matrix Item ID 418, 422, 423.

Business Process related information

After the activation of SAP HCM for SAP S/4HANA it will technically not be possible to use Personnel Development functionality anymore. See SAP Note 3091160.

Solution

Before activating SAP HCM for SAP S/4HANA in SAP S/4HANA 2022 or higher, check whether the functionality is used or not. If not there are no further actions. In case you use transaction PPPM (for qualifications) please consider that you have to check if
you have the right entry in table T77S0 - field GRPID = HAP00 - field SEMID = REPLA. The right value (field GSVAL) is "A". If you have another entry you get the error message "Appraisal functionality is simplified" (H4S4_REUSE_SFWS002) when executing PPPM. For more information please read the Help (F1) in the error message.

If the functionality is used and still required, a similar function is provided with

Objective Settings & Appraisals (PA-PD-PM) or SAP SuccessFactors Performance & Goals for Appraisal Systems

Talent Management & Development (PA-TM) or SuccessFactors Succession & Development for Career and Succession Planning and Development Plans

This functionalities need to be implemented.

You also have the choice to stay on SAP ERP HCM or SAP HCM in Compatibility Pack in SAP S/4HANA until its expiry dates.

Additional information for RISE with SAP S/4HANA Cloud, private edition customers:

Objective Settings & Appraisals (PA-PD-PM) or SAP SuccessFactors Performance & Goals and Talent Management & Development (PA-TM) or SuccessFactors Succession & Development are not available for RISE with SAP S/4HANA Cloud, private edition customers because this is not part of the offering. See SAP Note 3091160.

How to Determine Relevancy

This Simplification Item is relevant if you have entries in tables:

HRP1000 OTYPE = BS or BA
HRP1000 OTYPE = BL or B
HRP1000 OTYPE = LB
HRP1001 RELAT = 038 or 042 or 043
HRP1001 RELAT = 049
T77S0 GRPID = HAP00; SEMID = REPLA; GSVAL ≠ A.

That indicates that you are using Personnel Development functionality. If you already use the alternative functionalities mentioned before, this simplification item is not relevant.

Note: in case have implemented SAP Performance Management and using templates with development plans please also refer to SAP Note: 3257544

Other Terms
19. Logistics – General

19.1 S4TWL - Advanced Track & Trace

Application Components: LO-GEN-ATT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2668899</td>
<td>S4TWL - Advanced Track &amp; Trace</td>
</tr>
</tbody>
</table>

Symptom

You plan to convert an ECC or S/4 instance to S/4 HANA 1809 or higher. This requires a pre-check to be executed to ensure that your setup and components are compatible with the target release.

Important Remark:

The ERP functionality of Advanced Track and Trace for Pharmaceuticals is released for S/4 HANA 1809 FPS01 or higher.

The ERP functionality of Advanced Track and Trace for Pharmaceuticals is not available for S/4 HANA 1809 SP00.

Conversion from a supported ECC version: Conversion to S/4 HANA 1809 SP00 is not possible.

Upgrade from a supported S/4 HANA version: Upgrade to S/4 HANA 1809 SP00 is not possible.

Reason and Prerequisites

You have The ERP Add on for Advanced Track and Trace installed (STTPEC).

The conversion pre-checks require a check logic to be implemented. These checkes are included within this note.

Solution

Implement the attached correction instructions.

Required and recommended actions:
Before implementing this note please carefully read the related consulting note 2716224 - "S/4HANA 1809+ Conversion/Upgrade Guidelines for Advanced Track & Trace". Data model changes, retrofit etc. are described in the note 2716224.

Other Terms

ECC, S4HANA, Pre-Check, Simplification

19.2 S4TWL - Season Field Length Extension

Application Components: LO-RFM-CA, LO-RFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2624475</td>
<td>SAP S/4HANA: Seasons Field Length Extension</td>
</tr>
</tbody>
</table>

Symptom

You are going to use Season functionality in SAP S/4HANA 1809 or higher. This note collects information related to the Seasons field length extension. For more information, see the referenced notes.

Reason and Prerequisites

In SAP S/4HANA, the maximum length of the Seasons (SEASON, COLLECTION, THEME) value has been extended to 10 characters.

Solution

Description

In SAP S/4HANA 1809, the maximum length of the ID of Season, Collection, Theme has been extended to 10 characters.

Business Process related information

If your SAP S/4HANA system is embedded in a system landscape that contains other SAP or non-SAP solutions, integration may only be possible if the extended Season field length functionality is not activated in SAP S/4HANA.
Integration between SAP S/4HANA 1809 and SAP Customer Activity Repository 3.0 (CARAB 2.0) does not work with extended Season field length.

**Required and Recommended Action(s)**

In case you want to integrate with solutions that can't process Seasons with extended field length, you can't activate field length extension for Seasons in customizing (Cross-Application Components -> General Application Functions -> Activate Extended Fields).

For further information regarding integration in a solution landscape, and how to adjust customer specific coding, please see reference note.

Please note, that currently integration scenarios with SAP Customer Activity Repository 3.0 (CARAB 2.0) and consuming applications are not supported. SAP plans to provide a note to enable such an integration scenario.

**How to Determine Relevancy**

This Simplification Item is relevant if Season is used.
This can be checked via transaction SE16N. This simplification item is relevant if there are entries in table FSH_SEASONS.

**Other Terms**

FSH_SAISO, FSH_COLLECTION, FSH_THEME
20. Logistics – AB

20.1 S4TWL - Agency Business

Application Components: LO-AB

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267743</td>
<td>S4TWL - Agency Business</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

- Simplification of DB Key Fields and tables structures (WBRL, WBRRE, WBRF, WBRFN and WBRP)
- Replacement of concatenated fields by corresponding new fields in mentioned DB tables (Details mentioned notes below)
- Replaced fields are moved to the dynamical part of the communication structures to avoid runtime errors and to ensure the same system behaviour as before
- All redundant transaction and reports or business processes where replaces by one unified set of transaction, reports and business processes

**Business Process related information**

The application simplification offers now for each business process step one single transaction instead of many. Redundant functionalities were combined into one transaction or business process. This will help to streamline each single business step and to reduce unnecessary complexity by eliminating of similar business processes steps.

The Remuneration Request List is not available within SAP S/4HANA. The functional equivalent in SAP S/4HANA is the Extended Remuneration List offers the same business capability as well. This means that the customizing of the Extended Remuneration List has to be set up to ensure that the same documents are created. The replacement of the Remuneration List by the extended one can be done before or after the system conversion to SAP S/4HANA, on-premise edition 1511. Details about the system configuration kind be found in the note: 2197892
The Standard Settlement Methods to generate Settlement Documents is not available in SAP S/4HANA. The functional equivalent in SAP S/4HANA is the New Settlement Method. The System will adjust all documents which were created with reference to standard settlement method and the customizing data automatically. So you have to process the documents with respect to the business process steps of the new settlement method. Details about the system configuration kind be found in the note: 2197898

**Transaction Codes and Reports not available in SAP S/4HANA**

Here you will find a list of all transactions or reports which are not available within SAP S/4HANA and the corresponding successor transactions or reports (see also note 2204135).

<table>
<thead>
<tr>
<th>Obsolete Report</th>
<th>Obsolete Report Title</th>
<th>Obsolete Tcode</th>
<th>Successor Report</th>
<th>Successor Report Title</th>
<th>Successor Tcode</th>
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<tbody>
<tr>
<td>RWLF1001</td>
<td>Billing docs (header data)</td>
<td>WLFB</td>
<td>RWLF1051</td>
<td>List Output Settlement Management Documents</td>
<td>WLI2</td>
</tr>
<tr>
<td>RWLF1002</td>
<td>Billing documents (with item data)</td>
<td>WLFC</td>
<td>RWLF1051</td>
<td>List Output Settlement Management Documents</td>
<td>WLI2</td>
</tr>
<tr>
<td>RWLF1003</td>
<td>Settlement Document Lists (Header Information)</td>
<td>WLFD</td>
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<td>List Output Settlement Management Documents</td>
<td>WLI2</td>
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<td>Settlement Document Lists (With Item Data)</td>
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<td>Request Code</td>
<td>Request Details</td>
<td>Worklist Code</td>
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<td>RWLF1006</td>
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<td>RWLF1007</td>
<td>Settlemen t Requests (With Item Data)</td>
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<td>RWLF1051 List Output Settlement Management Documents</td>
<td>WLI2</td>
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<td>Settlemen t Request Lists (Header Data)</td>
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<td>RWLF1051 List Output Settlement Management Documents</td>
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<tr>
<td>RWLF1009</td>
<td>Settlemen t Request List (Item Data)</td>
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<td>RWLF1051 List Output Settlement Management Documents</td>
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<td>RWLF1010</td>
<td>Customer Settlement Lists (Header Data)</td>
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<td>RWLF1051 List Output Settlement Management Documents</td>
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<tr>
<td>RWLF1011</td>
<td>Display Relevant Payment Documents for Settlements</td>
<td>WLRA</td>
<td>RWLF_SETTLEMENT_LIST_RL Worklist based Creation of Settlement Documents</td>
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<td>List Output Settlement Management Documents</td>
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<td>Generate Customer Settlement Lists from Settlement Documents</td>
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<td>RWLF2054</td>
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<td>Manage Document Management Documen</td>
<td>RWLF2054</td>
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<td>Mass Cancellation of Settlement Management Documents</td>
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<td>Complete Vendor Billing Documents</td>
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<td>RWLF9060</td>
<td>List Output of Inbound IDoc for Settlement Request List</td>
<td>WRLI</td>
<td>RWLFIDOC_NEW</td>
<td>IDoc Monitor</td>
<td>WLF_IDOC</td>
</tr>
<tr>
<td>RWLF9061</td>
<td>List Output of Inbound IDocs for Payment Documents</td>
<td>WZRI</td>
<td>RWLFIDOC_NEW</td>
<td>Idoc Monitor</td>
<td>WLF_IDOC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Obsolete Tcode</th>
<th>Successor Tcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>WLR1</td>
<td>WLFSLRL</td>
</tr>
<tr>
<td>WBL1</td>
<td>WBLRN</td>
</tr>
<tr>
<td>OAGZ</td>
<td>n/a</td>
</tr>
</tbody>
</table>

### Required and Recommended Action(s)

Pre-Check is performed for the component LO-AB. Custom code adoption on the new DB-Design can be checked in the start release to identify the code places which have to adjust to the new DB-Structures. Batch or online processes which needed the obsolete transactions or reports have to be adjusted so that the new transactions and reports are used instead the obsolete once. Mostly all replaced reports and transaction where part of the solution portfolio of SAP_APPL and EA-RETAIL of the Business Suite To simplify the Conversion to S/4 it is recommended to adjust the business process in the start release by a step by step replacement of the obsolete transactions by the once which will be part of S/4. You have to activate the software component EA-RETAIL to use the successor reports or transactions. You can also adopt the business processes in S/4 without to change the processes in the current release.
## Related SAP Notes

| Custom Code related information | SAP Notes: 2197892, 2197898, 2204135, 2203518. |
21. Logistics – ATP

21.1 S4TWL - New advanced ATP in SAP S/4HANA – Table VBBS

Application Components: SD-BF-AC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267745</td>
<td>S4TWL - New advanced ATP in SAP S/4HANA, on-premise edition – Table VBBS</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Business Value**

In S/4HANA it is possible to aggregate data in real time, so the aggregate-table for sales order requirements VBBS is not necessary any more.

**Description**

Database table VBBS contained pre-aggregated sales requirements. The requested (OMENG) and confirmed (VMENG) quantities were aggregated on a daily basis. With the new HANA ATP, we do not need pre-aggregation anymore, and therefore this table is obsolete.

Instead of the VBBS we use the VBBE, where each ATP-relevant requirement is explicitly stored. The old ERP-ATP check code is also redirected to use VBBE.

**Business Process-Related Information**

No impact on business processes is expected.

The customizing where the VBBS could previously be activated in the Business Suite has been deactivated in SAP S/4HANA, on-premise edition 1511. New entries will automatically "choose" to use VBBE instead of VBBS.

**Required and Recommended Action(s) depending on S/4HANA target release**
Depending on the target release of S/4HANA you may have to apply following actions:

**S/4HANA 1511 and S/4HANA 1610**

There are two optional checks to be carried out before the upgrade to verify if the VBBS is used:

1. Start transaction "SE16" and display the entries in table "VBBS". If there are any entries, the XPRA has to run. If there are no entries, the second step has to be executed.
2. Start transaction "OVZ2" and check the entries for the fields "SUMAU" and "SUMLF". If there is any entry other than "A: Single records", the XPRA needs to be executed.

If you are still using table VBBS, please read the related note 2209696 how to convert your data after upgrade.

If you have custom code calling table VBBS, create a db view on table VBBE, and use that view instead of the table VBBS.

**S/4HANA 1709 and newer**

The necessary actions are automated and executed in SUM phase using identifying name ATP_XPRA_SUITE_TO_S4_V2. Manual actions as described for release S/4HANA 1511 and S/4HANA 1610 are not needed.

**Related SAP Notes**

| Custom code-related information | SAP Note: 2209696 |
22. Logistics – DSD

22.1 S4TWL - Direct Store Delivery

Application Components: LE-DSD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273317</td>
<td>S4TWL - Direct Store Delivery</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Direct Store Delivery is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Direct Store Delivery can be found under the ID 475.

This means that you need to migrate from Direct Store Delivery to its designated alternative functionality Last Mile Distribution for Direct Distribution before expiry of the compatibility pack license. This note shall provide an overview on the scope of Direct Store Delivery which is going to expire with the compatibility pack license, how this maps to the designated alternative functionality, if this alternative functionality is already available or when it’s planned to be available and how you can migrate to the alternative functionality.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

**Business Process-Related Information**

The functionality of Direct Store delivery provides tour execution capabilities for pre-ordered delivery driver scenario, van sales scenario and preseller/merchandiser scenario. All logistics scenarios enable delivery of goods, handling of empties and returns,
collection of cash and taking service notes. Creation and maintenance of visit plans is rounding up the functionality.

Within the alternative solution Last Mile Distribution you will get all execution capabilities following a roadmap until 2022. Visit planning capabilities will be provided by cloud based visit and activity management capabilities within SAP Sales Cloud or can be integrated form 3rd party Planning tools.

The first version of Last Mile Distribution for Direct Distribution is released with S/4HANA OP 2020 and provides the pre-ordered delivery driver scenario paperbased. Further details on the roadmap can be found in SAP Roadmap Explorer on http://www.sap.com

**Required and Recommended Action(s)**

As Direct Store Delivery can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

There is no tool supported migration from Direct Store Delivery to Last Mile Distribution available, please get in contact with SAP Consulting to investigate migration path options.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, SAP Direct Distribution, Direct Store Delivery

### 22.2 S4TWL - Direct Store Delivery in SAP S/4HANA

Application Components: LE-DSD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273317</td>
<td>S4TWL - Direct Store Delivery</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Direct Store Delivery is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Direct Store Delivery can be found under the ID 475.

This means that you need to migrate from Direct Store Delivery to its designated alternative functionality Last Mile Distribution for Direct Distribution before expiry of the compatibility pack license. This note shall provide an overview on the scope of Direct Store Delivery which is going to expire with the compatibility pack license, how this maps to the designated alternative functionality, if this alternative functionality is already available or when it’s planned to be available and how you can migrate to the alternative functionality.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

**Business Process-Related Information**

The functionality of Direct Store delivery provides tour execution capabilities for pre-ordered delivery driver scenario, van sales scenario and preseller/merchandiser scenario. All logistics scenarios enable delivery of goods, handling of empties and returns, collection of cash and taking service notes. Creation and maintenance of visit plans is rounding up the functionality.

Within the alternative solution Last Mile Distribution you will get all execution capabilities following a roadmap until 2022. Visit planning capabilities will be provided by cloud based visit and activity management capabilities within SAP Sales Cloud or can be integrated form 3rd party Planning tools.

The first version of Last Mile Distribution for Direct Distribution is released with S/4HANA OP 2020 and provides the pre-ordered delivery driver scenario paperbased. Further details on the roadmap can be found in SAP Roadmap Explorer on http://www.sap.com

**Required and Recommended Action(s)**
As Direct Store Delivery can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

There is no tool supported migration from Direct Store Delivery to Last Mile Distribution available, please get in contact with SAP Consulting to investigate migration path options.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, SAP Direct Distribution, Direct Store Delivery
23. Logistics - Environment, Health & Safety (EHS)

23.1 S4TWL - Deprecation of EHS Data Series and Amounts

Application Components: EHS-MGM, EHS-SUS-FND

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2338405</td>
<td>S4TWL - Deprecation of EHS Data Series and Amounts</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

EHS data series information used to be stored in the so called Data Series and Amount objects in EHS. These data objects were renovated and their information now is stored in different tables.

- All data dictionary objects (like data elements, tables and so on) were marked as obsolete (but they still exist).
- All standard coding (like classes, function modules and so on) working with the above data was deleted.

Note: These data dictionary objects and database tables had already been marked as "obsolete" with S/4HANA 1511.

Business Process related information

See note 2065178.

Required and Recommended Action(s)
See note 2065178.

**How to Determine Relevancy**

This Simplification Item is relevant if you are using EHS Data Series and/or Amounts. This is usually the case if table EHFNDD_DTS_ROOT has 5 or more entries.

**Other Terms**

Environment, Health and Safety

### 23.2 S4TWL - Deprecation of 'Inspect Safety Control' Fiori app

**Application Components:** EHS-SUS-HS, EHS-MGM-RAS

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2343825</td>
<td>S4TWL - 'Inspect Safety Control' Fiori app no longer available</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

The Fiori application 'Inspect Safety Control' has been been deprecated and is no longer available under S/4HANA.

**Business Process related information**

There is currently no successor application available.

**Required and Recommended Action(s)**
Inform your business users.

**How to Determine Relevancy**

This Simplification Item is relevant if you have the 'Inspect Safety Control' Fiori application in use.

**Other Terms**

Environment, Health and Safety, EHS Management

---

**23.3 S4TWL - Deprecation of 'Retrieve Safety Information' Fiori app**

Application Components: EHS-SUS-HS, EHS-MGM-RAS

Related Notes:

<table>
<thead>
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<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2343826</td>
<td>S4TWL - 'Retrieve Safety Information' Fiori app no longer available</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

The Fiori application 'Retrieve Safety Information' has been been deprecated and is no longer available under S/4HANA.

**Business Process related information**

There is currently no successor application available.

**Required and Recommended Action(s)**
Inform your business users.

**How to Determine Relevancy**

This Simplification Item is relevant if you have the 'Retrieve Safety Information' Fiori application in use.

**Other Terms**

Environment, Health and Safety

### 23.4 S4TWL - Simplification of Authorizations in Incident Management

Application Components: EHS-MGM-INC, EHS-SUS-IM

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2350330</td>
<td>S4TWL - Simplification of authorizations in Incident Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

The authorization concept for Incident Management was quite hard to handle for some of the existing authorization objects. Therefore the concept was renovated and authorization objects were replaced.

The following authorization objects have been set to obsolete (but they still exist):

- EHHSS_INC1 (EHSM: Incident)
- EHHSS_INC3 (EHSM: Incident Group)
- EHHSS_INC5 (EHSM: Incident by Location)
The following authorization objects have been newly introduced:

- EHHSS_INC6 (EHS: Incident)
  - This replaces EHHSS_INC1 and EHHSS_INC5
- EHHSS_INC7 (EHS: Incident Group)
  - This replaces EHHSS_INC3

The following standard BAdI implementations together with their implementing standard classes were removed (the BAdI Definition BADI_EHFND_BO_EXT_AUTH_CHECK itself still exists):

- BADI_EHHSS_INC_EXT_AUTH_CHECK (extended authorization check based on EHHSS_INC3)
- BADI_EHHSS_INC_EXT_LOC_CHECK (extended authorization check based on EHHSS_INC5)

These BAdI implementations (see also SAP Implementation Guide (IMG)): Environment, Health and Safety → Incident Management → Business Add-Ins → Business Add-Ins for Authorization → BAdI: Extended Authorization Checks) are the place where the authorization checks for the now obsolete authorization objects EHHSS_INC3 and EHHSS_INC5 took place. As the standard BAdI implementations do no longer exist, authorization checks on the authorization objects EHHSS_INC3 and EHHSS_INC5 are now ignored by the standard.

**Business Process related information**

Incident Management will not work before you have adjusted your business roles in a way that they also contain the newly introduced authorization objects.

**Required and Recommended Action(s)**

Review your authorization concept and your EHS roles. Replace the obsolete authorization objects accordingly with the new authorization objects EHHSS_INC6 and EHHSS_INC7.

In case you want to perform additional authorization checks based on the now obsolete authorization objects EHHSS_INC3 and EHHSS_INC5, do a customer implementation of the above mentioned BAdIs. In this case make sure that your users still own the appropriate authorizations. SAP recommends to consider this option thoroughly and only use it if the new authorization objects are not sufficient.

In case you have previously already done custom BAdI implementations of the BAdI Definition BADI_EHFND_BO_EXT_AUTH_CHECK, please keep in mind the following:
These custom BAdI implementations are still active and being executed. If you have derived your custom implementation class from the standard implementation class of the BAdI, please be aware that this derived class will be deleted during the upgrade!

How to Determine Relevancy

This Simplification Item is relevant if you have EHS Incident Management in use. This is usually the case if table EHHSSD_INC_ROOT has 20 or more entries.

Other Terms

Environment, Health, and Safety; EHS Management

23.5 S4TWL - Removal of EHS Home Screens

Application Components: EHS-SUS-IM, EHS-MGM-RAS, EHS-SUS-HS, EHS-MGM-INC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2350447</td>
<td>S4TWL - Removal of EHS home page</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

The following EHS roles used to have a home page to enter the system:

- Industrial Hygienist (SAP_EHSM_HSS_HYGIENIST)
- Corporate Health & Safety Manager (SAP_EHSM_HSS_HSMGRCORP)
- Hazardous Material Manager / Hazardous Substance Manager (SAP_EHSM_HSS_HAZSUBMGR)
- Sampling Technician (SAP_EHSM_HSS_SMPLTECH)
• Incident Manager (SAP_EHSM_HSS_INCIDENT_MANAGER)

These home pages are no longer available in SAP S/4HANA.

**Business Process related information**

The users of the mentioned roles should use the following alternative approaches to access the former home page functionality:

- To access the **overview charts** from the former home pages, use the corresponding SAP Fiori launchpad tiles.
  - **Example:** To get the same information as from the "Risks" chart on the former Industrial Hygienist home page, use the "Risk overview" tile from the SAP Fiori launchpad.

- To access the **applications and activities** which were accessible via links on the former home pages, use the corresponding SAP Fiori launchpad tiles.
  - **Example:** To start the "Search/edit risks" application as known from the former Industrial Hygienist home page, use the "Manage Risks" tile from the SAP Fiori launchpad.

**Required and Recommended Action(s)**

Inform the end users about the changed user interface (UI) and how Fiori and the SAP Fiori launchpad replace the former UI concepts.

**How to Determine Relevancy**

This Simplification Item is relevant if you use Risk Assessment or Incident Management. This is usually the case if either table EHHSSD_INC_ROOT or table EHHSSD_RAS_ROOT has 20 or more entries.

**Other Terms**

Environment, Health, and Safety; EHS Management

23.6 S4TWL - Specification Workbench Adjustments

Application Components: EHS-BD-SPE

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2439345</td>
<td>S4TWL - Specification Workbench related Simplifications and Adaptions</td>
</tr>
</tbody>
</table>
Symptom

You are carrying out a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The following adjustments have been done in the area Specification Workbench:

- The Specification Workbench is now enabled for SAP Fiori Theme rendering. Therefore, the ENTER button on the Specification Search screen, is now performing an input validation. That action makes the environment parameter Confirm Starts Specification Search (SP_SEARCH_START_ENTER), obsolete. The button F8 and the screen button Hitlist, generate the search hitlist.

Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

none

How to Determine Relevancy

This note is only relevant in case you make use of the Specification Workbench.

Other Terms

S4TC, S/4 transition

23.7 S4TWL - Simplification of Incident Management workflows

Application Components: EHS-MGM-INC, EHS-SUS-IM

Related Notes:
### Note Type

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2350795</td>
<td>S4TWL - Simplification of Incident Management workflows for fatality and cost collector notification</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

### Reason and Prerequisites

Renovation

### Solution

#### Description

In case of a fatality or when a cost collector has been added to an incident, workflows can be triggered to notify relevant people. These workflows have been re-worked.

The following functions in Incident Management have been replaced with new functions:

- **Fatality notification** workflow to inform stakeholders when a fatality was maintained in an incident
- **Inform involved** workflow which allows the user to notify involved persons about an added cost collector

The workflow templates 500006 – *Fatality Email* and 800022 – *Inform Involved* and the contained tasks remain the same. Only internal logic of workflow templates and tasks has been changed.

### Business Process related information

There are no changes in the general business logic.

### Required and Recommended Action(s)

If you have used the standard template, no action is required.

If you have copied one of the above mentioned workflow templates, perform the following actions:

- Deactivate the delivered workflow template 500006 / 800022.
• Double check the triggering event of your copied template and also check the parameter binding of the event.
• If required, copy the new template and adapt it to your requirements.

How to Determine Relevancy

This Simplification Item is relevant if you use Incident Management. This is usually the case if table EHHSSD_INC_ROOT has 20 or more entries.

Other Terms

Environment, Health, and Safety; EHS Management

23.8 S4TWL - Changed data model for listed substances

Application Components:
EHS-MGM-RAS, EHS-SUS-FND, EHS-SUS-EM, EHS-SUS-PMA, EHS-SUS-HS, EHS-MGM-FND, EHS-MGM-ENV, EHS-MGM-PRC

Related Notes:

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<tr>
<td>Business Impact</td>
<td>2376165</td>
<td>S4TWL - Changed data model for listed substances</td>
</tr>
</tbody>
</table>

Symptom

You are doing an upgrade to SAP S/4HANA 1511 or higher, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

A new table for listed substances has been introduced. This table serves to eliminate duplicates between the listed substances that are created by customers and the ones that are delivered as content.

After the upgrade, you need to transfer your listed substances to this new table and afterwards eliminate duplicate entries.
Business Process related information

There are no changes in the general business logic.

Required and Recommended Action(s)

Run the following report manually:

- Transfer your listed substances to the new table
  Only required for system conversions to SAP S/4HANA 1511. Not required for system conversions to SAP S/4HANA 1610 or higher.
  - Run report R_EHFND_LISU_MIGRATION
  - This report transfers existing listed substances from table EHFND_LISU_ROOT to the new table EHFND_LISU_RT.
  - Comment: This report is run automatically when converting to SAP S/4HANA 1610 and higher.

Run the following report optionally:

- Eliminate duplicate entries
  - Run report R_EHFND_LISU_SUBSTITUTE
  - This report eliminates duplicate entries in table EHFND_LISU_RT by replacing customer-specific listed substances with equivalent SAP-specific listed substances (where possible).
  - Please read the documentation of the report for functional details.
  - Be aware that the report replaces listed substances according to built in logic; there is no possibility for selective replacement.

How to Determine Relevancy

This Simplification Item is relevant if you make use of listed substances in EHS. This is the case if table EHFND_LISU_ROOT contains entries.

Other Terms

Environment, Health, and Safety, EHS Management

23.9 S4TWL - Changed data model for Occupational Exposure Limits

Application Components:EHS-MGM-RAS, EHS-SUS-HS

Related Notes:
Note Type | Note Number | Note Description
---|---|---
Business Impact | 2442566 | S4TWL - Changed data model for Occupational Exposure Limits (OELs)

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

Starting with S/4HANA 1709 EHS Health and Safety Management uses the new data object *Compliance Requirement* which had been introduced by EHS Environment Management in earlier releases. This impacts the way how **Occupational Exposure Limits (OELs)** for Listed Substances are maintained and handled within Health and Safety Management:

- OEL - Data maintenance
  - OELs are no longer maintained via the application *Manage Regulatory Lists - OELs*. This application has been deprecated.
  - Instead, OELs are maintained as *Compliance Requirements* using the new application *Manage Compliance - Regulations, Policies*.
- OEL - Configuration
  - The customizing activity to define regulatory lists for OELs (= *Environment, Health and Safety -> Health and Safety Management -> Master Data Configuration -> Agents -> Specify Regulatory Lists for OELs*) is no longer needed and was removed from the IMG.

The contents of the above customizing table together with the OELs from the deprecated application *Manage Regulatory Lists - OELs* are automatically migrated during the upgrade into new *Compliance Requirements*. That data will automatically be migrated from the old to the new data model; this is done by XPRA (=EXecution of PRogram After Import) R_EHFND_REQ_MIGRATION. For more details on this XPRA see the according report documentation in the SAP system.

**Business Process related information**
The Health and Safety business processes do not change as such. But the data maintenance of Occupational Exposure Limits (OELs) is done differently now.

**Required and Recommended Action(s)**

- Inform your users about this changed way of maintaining Occupational Exposure Limits (OELs).
- Train your users on the new application *Manage Compliance - Regulations, Policies*.
- Make sure the users working with the old application *Manage Regulatory Lists - OELs* now have the new application *Manage Compliance - Regulations, Policies* as part of their Fiori launchpad (should be given by default if you are using the standard EHS roles).
- Check the OEL data migration (after the actual upgrade):
  1. Start the new application *Manage Compliance - Regulations, Policies*.
  2. Select all Compliance Requirements.
     - These have been generated by the XPRA (see above) during the upgrade.
     - They have names like "Migrated <name of former OEL list>", where <name of former OEL list> stands for the name how your list used to be named in the customizing activity to define regulatory lists for OELs (see paragraph "Description").
  3. If you are satisfied with the results, remove the text "Migrated" from the Compliance Requirement names.

*Please note:* The old customizing activity to define regulatory lists for OELs (see paragraph "Description") will no longer be visible in the IMG after the upgrade. But the according customizing table still exists and can be viewed with transaction SM30 using maintenance view EHFNDV_OELREGL.

**How to Determine Relevancy**

This Transition Worklist item is relevant for you if you have defined at least one Occupational Exposure Limit (OEL). This is the case if table EHFNDD_REGL_OEL contains at least 1 entry.

**Other Terms**

Environment, Health, and Safety; EHS Management; EHS; EHS Management; Risk Assessment; Health & Safety Management; Health and Safety Management
23.10S4TWL - Removal of task und document tab pages on incidents

Application Components:EHS-SUS-IM, EHS-MGM-INC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2429619</td>
<td>S4TWL - Simplification of tasks and documents/reports tab in Incident Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

Up to now, documents and tasks could be managed on several tabs in Incident Management, i.e. People, Assets, Investigation, Releases, Notice of Violation. The aim was to provide a central place for the creation and management of documents and tasks.

On the tabs listed below the subordinated tab Reports/Documents and the subordinated tab Tasks were removed:

- People
- Assets
- Releases
- Notice of Violation
- Investigation

Adding a new document or a link is now centralized on the tab Reports/Documents. The popup which appears for adding a new document or link was enhanced by the possibility to select the referenced object. This selection list contains all people, assets, releases, notice of violations, investigations that are entered for the incident and the incident itself.

Adding a new task is now centralized on the tab Tasks. The creation of a new task was enhanced by the possibility to select the referenced object. This selection list contains all
people, assets, releases, notice of violations, investigations that are entered for the incident and the incident itself.

The behavior in processing documents and tasks for a Root Cause Analysis or an Investigation Step was not changed.

**Business Process related information**

There are no changes in the general business logic.

**Required and Recommended Action(s)**

If you are using the standard Incident Management User Interface (UI), no action is required.

If you have custom implementation on the subordinated tab *Reports/Documents* or on the subordinated tab *Tasks* you have to ensure that your custom implementation is also covered on the remaining main tab *Reports/Documents* respectively *Tasks*.

**How to Determine Relevancy**

This Simplification Item is relevant if you have EHS Incident Management in use. This is usually the case if table EHHSSD_INC_ROOT hat 20 or more entries.

**Other Terms**

Environment, Health, and Safety; EHS; EHS Management; Incident Management

**23.11S4TWL - Changed process for risk identification**

Application Components:EHS-SUS-HS, EHS-MGM-RAS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2442567</td>
<td>S4TWL - Changed process for risk identification</td>
</tr>
</tbody>
</table>

**Symptom**

You are performing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

Renovation

Solution

Description

Roughly speaking, the EHS Risk Assessment process consists of these three steps:

1. Identify risks
2. Plan the assessment of the risks (by grouping them into Risk Assessment projects)
3. Assess and mitigate the risks (by processing the Risk Assessment projects)

Before S/4HANA 1709, these three steps were addressed by one single application called Risk Assessment.

In S/4HANA 1709, there are the two new applications Identify Risks and Assign Risks to Projects; these are now used for the above-mentioned steps 1 and 2. The existing application Risk Assessment was simplified in a way that it now only supports step 3 from above. This means that the identification and grouping of risks can no longer be done from within the application Risk Assessment, but has to be done via the new applications Identify Risks and Assign Risks to Projects. This means that the button/feature "Identify Risks" no longer exists in the application Risk Assessment.

Additional Technical Information

- All affected data dictionary objects have been marked with "OBSOLETE" in their names; these objects will only exist for a limited amount of time.

- The old Guided Activity Floorplan (GAF) behind the button "Identify Risks" still exists (as mentioned), but will technically no longer work.

Business Process Related Information

The business process "Risk Assessment" has not changed as such; it has changed with respect to the applications to be used in order to step through the complete process.

Required and Recommended Action(s)

- Inform the affected end users about this change.
- Train the affected end users on the new applications Identify Risks and Assign Risks to Projects.
- Make sure that the two new applications are part of the relevant users' FIORI launchpad (should be given by default if you are using the SAP roles).
Please also note the technical information given above saying that the old GAF "Identify Risks" will no longer work. In case you are calling or enhancing this functionality using customer-specific implementations, this will no longer work.

**How to Determine Relevancy**

This Transition Worklist item is relevant for you if you have Health and Safety Management (formerly known as Risk Assessment) in use.

- You have Health and Safety Management in use if table EHHSSD_RAS_ROOT contains at least 10 entries.

**Other Terms**

Environment, Health, and Safety; EHS Management; EHS; EHS Management; Risk Assessment; Health & Safety Management; Health and Safety Management

**23.12S4TWL - Industrial Hygiene and EC interfaces**

Application Components: XAP-EM, EHS-IHS

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267781</td>
<td>S4TWL - Industrial Hygiene and EC interfaces</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With *SAP EHS Management* as part of *SAP ERP*, customers can use the *Industrial Hygiene and Safety* (EHS-IHS) solution for managing incidents and performing risk assessments. In *SAP S/4HANA* on-premise edition 1511, this solution is no longer available. However, customers can use the incident management solution and the health and safety management solution of *Environment, Health, and Safety* as part of *SAP S/4HANA* to support their business processes.
Simplification List for SAP S/4HANA 2023 – Initial Shipment and SAP S/4HANA Cloud,
private Edition 2023 – Initial Shipment

Interfaces to SAP Environmental Compliance
Customers can use SAP Environmental Compliance (SAP EC) to support emissions and
compliance-relevant processes. In addition, Environmental Compliance provides
interfaces to exchange data with other applications.
In SAP S/4HANA on-premise edition 1511, the following interfaces are not available:
1. Environmental Compliance - Specification Database:
o Environmental Compliance will not be able to read specification data or
units of measurement from Environment, Health, and Safety as part of
SAP S/4HANA
2. Environmental Compliance - Incident:
o Environmental Compliance will not be able to read incident or location
data from Environment, Health, and Safety as part of SAP S/4HANA
3. EAM - Environmental Compliance:
o Enterprise Asset Management (EAM), as part of SAP S/4HANA, will not
be able to display Environmental Compliance data
A successor solution for SAP Environmental Compliance is planned for Environment,
Health, and Safety in a future SAP S/4HANA delivery.
Business Process related information
Industrial Hygiene and Safety (EHS-IHS) is replaced by the new incident management
solution and health and safety management solution of Environment, Health, and
Safety as part of SAP S/4HANA.
Business processes are described in the documentation for Environment, Health, and
Safety as part of SAP S/4HANA.
Transaction not available in
SAP S/4HANA on-premise
edition 1511

CBIH00, CBIH02, CBIH03, CBIH12, CBIH13, CBIH14, CBIH42,
CBIH43, CBIH50, CBIH51, CBIH52, CBIH72, CBIH73, CBIH82,
CBIH83, CBIH88, CBIH89, CBIH92, CBIH92OLD, CBIH93OLD,
CBIHB0, CBIHB1, CBIHB2, CBIHB3, CBIHB4, CBIHB5, CBIHB6,
CBIHCH1, CBIHCH2, CBIHCH3, CBIHCH4, CBIHM2, CBIHM3,
CBIHMR01, CBIHMR02, CBIHMR03, CBIHMR04, CBIHMR05,
CBIHMR06, CBIHMR07, CBIHMR08, CBIHMR09, CBIHR01,
CBIHSR01, CBIHT0, CBIHT1, CBIHT12, CBIHT13, CBIHT2,
CBIHT22, CBIHT23, CBIHT3, CBIHT32, CBIHT33, CBIHT4,
CBIHT5, CBIHT52, CBIHT53, CBIHT6, CBIHT62, CBIHT63,
CBIHT7, CBIHT72, CBIHT73,
EHSAMBTAET, EHSAMED, EHSASSIGN, EHSASSLTA,
EHSASSPERS, EHSBC02, EHSBP11, EHSBP12, EHSBP13,
EHSBP31, EHSBP32, EHSBP33, EHSBP41, EHSBP42,
EHSBP43, EHSBP51, EHSBP52, EHSBP53, EHSCALPROX,

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Related SAP Notes

| Custom Code related information | SAP Note: 2217206 |

**23.13S4TWL - Renovation of EHS authorization concept**


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td><strong>2442150</strong></td>
<td>S4TWL - Renovation of EHS authorization concept</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**
The SAP authorization concept uses so called **authorization objects** which allow principal access to certain kinds of business objects (e.g. Locations, Incidents). The **authorization object fields** then define, which of these business objects exactly a user may access based on attributes of these objects (e.g. Locations of type ABC, Incidents at location XYZ).

Some EHS authorization object fields correspond to non-mandatory attributes in the respective business object. Technically speaking these attributes may have an empty value (value ' ') for an attribute which is checked in an authorization check. The logic of this special case of authorization check was changed in order to make the whole authorization concept safer and more consistent. The following example demonstrates this change:

**Example**

Earlier behaviour:

<table>
<thead>
<tr>
<th>IF...</th>
<th>THEN...</th>
<th>THEN...</th>
</tr>
</thead>
<tbody>
<tr>
<td>...user has <strong>authorization to access incidents at</strong> ...</td>
<td>...user can <strong>access incidents without assigned location</strong></td>
<td>...user can <strong>access incidents at location 'XYZ'</strong></td>
</tr>
<tr>
<td>location 'XYZ'</td>
<td>yes(!)</td>
<td>yes</td>
</tr>
<tr>
<td>location ' '</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

New behaviour:

<table>
<thead>
<tr>
<th>IF...</th>
<th>THEN...</th>
<th>THEN...</th>
</tr>
</thead>
<tbody>
<tr>
<td>...user has <strong>authorization to access incidents at</strong> ...</td>
<td>...user can <strong>access incidents without assigned location</strong></td>
<td>...user can <strong>access incidents at location 'XYZ'</strong></td>
</tr>
<tr>
<td>location 'XYZ'</td>
<td>no(!)</td>
<td>yes</td>
</tr>
<tr>
<td>location ' '</td>
<td>yes</td>
<td>no</td>
</tr>
</tbody>
</table>

**Business Process related information**

Your business processes are not (directly) affected by this change.

But you might need to adjust your authorization concept in order to make sure that your users will still be able to access all those data objects they can access today.

**Required and Recommended Action(s)**

1. If your current EHS authorization concept already explicitly takes into account the value ' ' for the authorization object fields listed below, then there is nothing to do.
2. If it is okay for you that your users will no longer be able to access objects with missing data for the attributes listed below (e.g. incidents without location assignment), then there is nothing to do.

3. Else you need to adjust your authorization concept for the authorization objects listed below.
   - Make sure you extend all your profiles by an additional authorization object field value ‘‘’ where you want users to further access the according data objects with missing assignments (i.e. with empty attribute values).

<table>
<thead>
<tr>
<th>EHS area</th>
<th>Authorization object</th>
<th>Relevant authorization object fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHS Foundation</td>
<td>Location</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td></td>
<td>EHFND_LOC</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td></td>
<td>Compliance Requirement</td>
<td>Country Region</td>
</tr>
<tr>
<td></td>
<td>EHFND_REQ</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td></td>
<td>Sample Management</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td>Environment Management</td>
<td>Scenario</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td></td>
<td>EHENV_SCEN</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td>Health and Safety</td>
<td>Health Surveillance Protocol</td>
<td>Country Key Region</td>
</tr>
<tr>
<td>Management</td>
<td>EHHSS_HSP</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td></td>
<td>Risk Assessment</td>
<td>Location Authorization Group Plant ID Cost Center Company Code Business Area</td>
</tr>
<tr>
<td>Incident Management</td>
<td>Incident Report</td>
<td>Organizational Unit ID Plant ID</td>
</tr>
<tr>
<td></td>
<td>EHHSS_INC2</td>
<td>Organizational Unit ID Plant ID</td>
</tr>
<tr>
<td></td>
<td>Incident</td>
<td>Country Key Location ID Organizational Unit ID</td>
</tr>
<tr>
<td></td>
<td>EHHSS_INC6</td>
<td>Country Key Location ID Organizational Unit ID</td>
</tr>
</tbody>
</table>
How to Determine Relevancy

This Transition Worklist item is relevant for you if you have EHS in use. EHS consists of the 3 functional areas Health and Safety Management (formerly known as Risk Assessment), Incident Management and Environment Management.

- You have Health and Safety Management in use if table EHHSSD_RAS_ROOT contains at least 10 entries.
- You have Incident Management in use if table EHHSSD_INC_ROOT contains at least 10 entries.
- You have Environment Management in use if table EHENVD_SCEN_ROOT contains at least 1 entry.

Other Terms

Environment, Health, and Safety; EHS Management; EHS; EHS Management; Risk Assessment; Health & Safety Management; Health and Safety Management; Incident Management; Environment Management

23.14S4TWL - Changed data model for Job Steps

Application Components: EHS-SUS-HS, EHS-MGM-RAS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2446055</td>
<td>S4TWL - Technical renovation of job step concept</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution
Description

The way how Job Steps and their information (like name and sequence number) is stored in EHS has changed. This data used to be stored in the Risk Assessment Business Object; now it is stored in the new Jobs at Location Business Object. A comparison between old and new data model can be seen in the attachment.

During the upgrade that data will automatically be migrated from the old to the new data model (this is done by XPRA (=EXecution of PRogram After Import) R_EHHSS_XPRA_INIT_JOBSTEP_BO; more details see the according report documentation in your SAP system).

Note: This item first of all affects customers who have done their own implementations which use Job and Job Step information.

Business Process related information

Your business processes are not affected at all by this change.

Users will only experience one slight little change: The name of a Job Step used to be an individual text for Risk Assessments and their follow-up Risk Assessments. Now Risk Assessments and their follow-up Risk Assessments share the same Job Step names.

Example:

- You have an open risk assessment for job A.
  - Job A consists of the steps "Work" and "Clean up".
- You finish this risk assessment and close it.
- Some time later you follow-up the risk assessment because things have changed.
- In the follow-up risk assessment you decide to rename the job step 2 into "Clean up workplace".

Earlier behaviour:

- The job step name of the previous risk assessment stays "Clean up".

New behaviour:

- The job step name of the previous risk assessment also becomes "Clean up workplace".

This new behaviour enforces the semantically consistent use of job steps: A job step must throughout its' life cycle always semantically mean the same thing.
• Jop steps from now on may only be syntactically changed (like corrections of spelling errors), no longer semantically.
• Re-using existing job steps for semantically different activities by just renaming the steps is no longer possible, because this also changes the semantics of that step in the past (unless this effect is actually intended).
• If an existing job step is no longer needed and in parallel a new job step is required, then you need to "phase out" the no longer needed job step by removing its' risks and, in parallel, need to create a new, additional job step with new risks.

**Required and Recommended Action(s)**

• Communicate to your end users this change in job step naming behaviour as this might be quite relevant to them.
• Find out whether you have customer specific implementations in place which access the following table:
  ○ EHHSSD_RAS_STEP
• Adjust your implementations to the new data model (see attachment).

**How to Determine Relevancy**

This Transition Worklist item is relevant for you if you have EHS jobs and job steps in use. This is the case if table EHHSSD_RAS_STEP contains at least 1 entry.

**Other Terms**

Environment, Health, and Safety; EHS Management; EHS; Risk Assessment; Health & Safety Management; Health and Safety Management

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**23.15S4TWL - Adjustments needed due to changed data model for Compliance Requirement**

Application Components:EHS-SUS-EM, EHS-MGM-ENV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2504323</td>
<td>S4TWL - Adjustments needed due to changed data model of compliance requirement</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

The data model of the compliance requirement was changed in S/4HANA 1709. There is an automatic data conversion during the upgrade that adjusts all existing data, however, manual pre-work is still necessary.

Business Process related information

If you do not perform the manual steps described below, your S/4HANA upgrade/conversion might stop during the EHS data conversion step.

Required and Recommended Action(s)

In all productive clients on your system, replace the regulatory list type DEFAULT_LIST with a new entry for each chemical property in use.

1. Log on to your backend system.
2. Start transaction SPRO.
4. Copy the entry DEFAULT_LIST to a new entry HHV, and then, assign a chemical property HHV to it.
   If you use additional chemical properties within the regulatory list type DEFAULT_LIST, then for each additionally defined chemical property create a new regulatory list type with the corresponding name.
5. Delete the record DEFAULT_LIST.

How to Determine Relevancy

This Transition Worklist item is relevant for you, if table EHFNDD_REQ_REGL contains more than 5 entries.

Other Terms
Environment, Health, and Safety; EHS; EHS Management; Environment Management; EM

23.16S4TWL - Deprecation of action templates in control master

Application Components: EHS-SUS-HS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2590858</td>
<td>S4TWL - Deprecation of action templates in control master</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

The basic process in Health and Safety Management is the identification and handling of occupational risks in a working environment. Mitigation of such occupational risks usually is done by defining controls. To define and track the implementation of these controls, tasks can be defined for each needed control.

Health and Safety Management used to have a feature where tasks could be defined by choosing action templates. Action templates are control-specific, pre-defined sets of actions/tasks that are specified in the control master data. This feature no longer exists.

Business Process related information

The business process as such is not affected by this change. However, users now need to manually specify all needed tasks for control implementations.

Required and Recommended Action(s)

Inform your Health and Safety Management business users about this functional change.
How to Determine Relevancy

This Transition Worklist item is relevant for you if you are using action templates. This is the case if table \textit{EHFNDD\_CTRL\_ACTT} contains any entries.

Other Terms

Environment, Health, and Safety; EHS; EHS Management; Health and Safety Management

23.17S4TWL - Simplification of Risk Assessment Lifecycle

Application Components: EHS-SUS-HS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2603300</td>
<td>S4TWL - Deprecation of risk assessment lifecycle workflow</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

Whenever a new risk assessment project was created, Health and Safety Management used to trigger a workflow known as \textit{Risk Assessment Lifecycle}. The standard recipient of this workflow was the creator of the risk assessment project. The purpose of this workflow was for the creator to have a reminder and a collection of all open risk assessment projects in the \textit{My Inbox} app.

Now, Health and Safety Management provides several dedicated apps, such as the \textit{My Risk Assessment Projects} app, for the purpose of collecting and reminding of relevant risk assessment projects. Therefore, this workflow is no longer needed and was removed from \textit{Health and Safety Management}, together with all its trigger points.
Business Process related information

The business process as such is not affected by this change. To find all open and relevant risk assessment projects, users now need to look into their My Risk Assessment Projects app instead of looking into their My Inbox app.

Required and Recommended Action(s)

If you have switched off this workflow and do not use it at all, then no action is required.

Otherwise, inform your Health and Safety Management business users about this functional change.

In case you have modified or extended the Risk Assessment Lifecycle workflow (that means: You have extended or exchanged the workflow template WS00800029), be aware of the fact that this workflow is no longer triggered.

How to Determine Relevancy

This Transition Worklist item is relevant for you if you have already used that workflow (and probably are still using it therefore). This is the case if table EHHSSD_PRL_ROOT contains any entries.

Other Terms

Environment, Health, and Safety; EHS; EHS Management; Health and Safety Management

23.18S4TWL - Renovation of task management

Application Components: EHS-SUS-HS, EHS-SUS-IM, EHS-SUS-EM

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2612110</td>
<td>S4TWL - Renovation of task management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable in this case.
Reason and Prerequisites

Renovation

Solution

Description

This SAP Note is intended to provide a deeper insight into the renovation of the EHS task management process. This information is particularly relevant for customers who have enhanced EHS Task Management, for example, with custom coding or additional workflows.

Note: Resulting functional changes are described in the referenced SAP Notes.

Environment, Health, and Safety contains a task management functionality which is used by its components Health and Safety Management, Incident Management, and Environment Management. EHS Task Management has been significantly reworked (new data model, new coding) and moved to Fiori (new user interface). The following processes have been affected by this change:

- Incident Management
  - Standard incident actions
  - Standard investigation step actions
  - Plant maintenance notifications
  - Change requests in SAP Management of Change
  - Incident lifecycle workflow
  - Notify HR (absence) administrator workflow
  - HR absence maintained workflow
  - Report generation workflow (removed)
  - Report shipment workflow (removed)
  - Report approval workflow (removed)

- Health and Safety Management
  - Standard risk assessment actions
  - Control actions
  - Plant maintenance notifications
  - Change requests in SAP Management of Change

- Environment Management
  - Standard compliance scenario actions

Business Process Related Information

The business process as such is not affected by this change, as the task management functionality is still available.
However, if you are upgrading or converting from 1709 (or lower) releases to 1809 (or higher) releases and have customer-specific functionalities of workflow processes, these functionalities will not work after the upgrade or conversion. Before the upgrade or conversion, we advise you to initiate analysis of your customer-specific functionalities and plan ways to adapt them to the new task management framework.

A modification of the standard migration, including the incorporation of customer-specific solutions, is possible by enhancing the migration reports. For example, you can adapt the migration of task attachments, as described in SAP Note 2900458.

All active EHS processes running at the time of the system upgrade or conversion to 1809 (or higher) releases are canceled automatically. To recreate them after the upgrade or conversion, you have to run the R_EHFND_WFF_RESTART_PROCESSES report manually in each client, as described in SAP Note 2905234. In addition to recreating the active EHS processes, the report also transfers comments and copies attachments into the new release. Information about the state of the processes that are in progress after the upgrade or conversion is included as comments in the new workflow. Note that the R_EHFND_WFF_RESTART_PROCESSES report may require a substantial amount of time to finish. The long processing time may result from a large volume of attachments.

Note: Upgrading from lower releases refers to an upgrade from SAP S/4HANA 1511 and SAP S/4HANA 1610, while conversion refers to conversion from Component Extension for SAP Environment, Health, and Safety Management.

For more information about the steps in the migration of old tasks and work items, see the Required and Recommended Action(s) section.

For more information about effects on the apps used, see the Affected Apps section.

**Required and Recommended Action(s)**

Depending on the context of your upgrade, you can find more information about the task migration actions that you need to perform within that context in the following SAP Notes:

- If you are upgrading or converting from 1709 (or lower) to 1809, perform the activities described in SAP Note 2905234.
- If you are upgrading or converting from 1809 to 1909 (or higher), perform the activities described SAP Note 2903938. Make sure you have maintained the relevant parameters as described in SAP Note 2927227.
- If you are upgrading or converting from 1709 (or higher) to 1909 (or higher) directly, perform the activities described in SAP Note 2905234, followed by the activities described in SAP Note 2903938. Make sure to perform the activities in
SAP Note 2917169 only after all activities described in SAP Notes 2905234 and 2903938 are performed.

- If you are upgrading or converting from 1809 (or lower) to 2020 (or higher), you can choose whether to do a manual migration or to use silent data migration. Make sure that you have maintained the relevant parameters as described in SAP Note 2927227. For more information about silent data migration, see SAP Note 2975797.

**Important Note:** A prerequisite for the task migration is to have business users set up. If you don’t have business users set up in the system before the system conversion, it is recommended to choose the manual migration option and set up business users before running the manual migration report.

**Affected Apps**

As part of task migration during the upgrade to SAP S/4HANA 1809 or higher, the task functionality in the following apps will be affected:

- Task Explorer
- Manage Compliance Scenario
- Manage Incidents
- My Risk Assessment Projects

After task migration is completed, your tasks will be transferred to the new task management framework. To continue with normal task processing, install the following new Fiori apps:

- Monitor Tasks (F2527)
- Manage Compliance Requirement Tasks (F4346)
- Manage Compliance Scenario Tasks (F2526)
- Manage Incident Tasks (F3091)
- Manage Risk Assessment Tasks (F3093)
- Manage Control Implementation Tasks (F3094)
- Manage Investigation Step Tasks (F3092)
- Task Calendar (F3840)
- Display Task Instance (F2529)
- Manage Task Definition (F2528)
- Manage Maintenance Notification (F3359)
- My Inbox (F0862)

**How to Determine Relevancy**

This Transition Worklist item is relevant for you if you are using EHS Task Management. This is the case if at least one of the following tables contains any entries:
- EHHSSD_IAC_ROOT
- EHHSSD_PIC_ROOT
- EHHSSD_RAC_ROOT
- EHHSSD_PRA_ROOT
- EHENVD_SAC_ROOT
- EHENVD_PSA_ROOT
- EHHSSD_PIL_ROOT
- EHHSSD_PIH_ROOT
- EHHSSD_PIR_ROOT
- EHHSSD_PIA_ROOT
- EHHSSD_PRL_ROOT

Other Terms

Environment, Health, and Safety; EHS; Health and Safety Management; Incident Management; Environment Management

23.19S4TWL - Deprecation of Mapping Workbench in Foundation of EHS

Application Components: EHS-MGM, EHS-MGM-FND-FRM, EHS-SUS-FND

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2408533</td>
<td>S4TWL - Deprecation of Mapping Workbench in Foundation of EHS</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or an upgrade from SAP S/4HANA on-premise edition 1511 or SAP S/4HANA 1610 to SAP S/4HANA 1709.

The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution
Description

The Mapping Workbench in the Foundation for EHS enabled you to map business object nodes to nodes that are used in SAP Interactive Forms by Adobe.

The Mapping Workbench is deprecated.

Business Process related information

Existing SAP Interactive Forms by Adobe which were developed with the help of the Mapping Workbench continue to work at runtime.

However you will not be able to use the Mapping Workbench in future to develop new forms or adapt existing forms which were originally developed with the Mapping Workbench.

Required and Recommended Action(s)

Develop and adapt your SAP Interactive Forms by Adobe via the standard transactions SFP and SE24.

How to Determine Relevancy

This Simplification Item is relevant if you are using the Mapping Workbench to develop your own SAP Interactive Forms by Adobe for EHS. This is usually the case if table EHFND_DD_MAP_ROOT has entries.

Other Terms

Environment, Health and Safety

23.20S4TWL - Renovation of Investigation Lifecycle Workflow

Application Components:EHS-SUS-IM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2801072</td>
<td>S4TWL - Renovation of the workflow for the EHS incident investigation lifecycle</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA. The following Transition Worklist item is applicable for customers who use the workflow for the EHS incident investigation lifecycle.

Reason and Prerequisites

Renovation

Solution

Description

The workflow for the EHS incident investigation lifecycle has been redesigned and now uses a new workflow architecture.

This SAP Note provides information on the required manual migration of incident investigation lifecycle processes to the new architecture.

Business Process Related Information

The end-to-end incident investigation business process as such has not been changed. Migration to the updated workflow for the EHS incident investigation lifecycle is to be performed manually.

Required and Recommended Actions

1. After a system conversion to SAP S/4HANA or a system upgrade within SAP S/4HANA, be sure to manually run the report R_EHHSS_INV_LC_MIGRATION.
   o For more details, see the report documentation.
2. Check if you have implemented any additional functionality (such as additional or modified workflow steps) on top of the existing incident investigation lifecycle workflow.
   o If this is the case, you may need to adjust your workflow.

How to Determine Relevancy

This Transition Worklist item is relevant for you if you use the workflow for the EHS incident investigation lifecycle. This is the case if the table EHHSSD_IIL_ROOT contains any entries.

Other Terms
Environment, Health, and Safety, EHS, Incident Management, Investigation Lifecycle Workflow, IM

23.21S4TWL - Barcode reader not supported in app Display Safety-Relevant Information

Application Components: EHS-SUS-HS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3253390</td>
<td>S4TWL - Barcode reader not supported in app Display Safety-Relevant Information</td>
</tr>
</tbody>
</table>

Symptom

You are carrying out a system conversion or an upgrade to SAP S/4HANA 2020 or higher.

The following SAP S/4HANA transition worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

The Display Safety-Relevant Information app offers you a holistic view on a workplace (technically: EHS location) from a safety perspective.

For the first step in this app, the selection of an EHS location, the app used to offer a barcode / QR code reader function (see screenshot in the Attachments section). As this feature was a basic, built-in Fiori feature which is no longer available in Fiori, the app Display Safety-Relevant Information has also lost this feature.

Business Process-Related Information

The business process as such does not change, only the step for the selection of an EHS location has changed.
Required and Recommended Action(s)

1. Check if you are using the SAP Fiori native app for Apple or Android devices.
   o Only this native app used to support barcode scanning; the normal Fiori app started from the Fiori launchpad and running in a normal browser window has never done so.
   o This native app was deprecated recently, but your company might still have it in use.
2. If the mentioned app is not in use at your company, you are not affected and can stop reading here.
3. If the mentioned app is in use, inform your end users that the button Scan barcode is no longer available and that the desired location needs to be selected using the normal filter criteria.

How to Determine Relevancy

This simplification item is potentially relevant if you have EHS Health and Safety Management in use. This is usually the case if table EHHSSD_RSK_ROOT contains entries.

Whether you actually use the affected native app Display Safety-Relevant Information cannot be determined technically; you have to find out this by asking your IT department or your EHS business.

Other Terms

Environment, Health and Safety; Health and Safety Management; Operational Risk Management

23.22S4TWL - Replacement of Office integration in Risk Assessment Step

Application Components:EHS-SUS-HS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3036325</td>
<td>S4TWL - Refactoring Office Integration in EHS Risk Assessment (1)</td>
</tr>
</tbody>
</table>

Symptom

You are carrying out a system conversion or an upgrade to SAP S/4HANA 2021.
The following SAP S/4HANA transition worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

The *Manage Risk Assessments* app enables you to configure additional assessment steps. One possible such step is the use of a predefined document created in Microsoft Word or Microsoft Excel to perform a risk assessment. This document could be, for example, a predefined checklist to fill in.

Such a document used to be displayed and edited in place within the browser. As the Microsoft Office integration into browsers is no longer supported, this feature has been reworked to use the download and upload of the relevant document.

**Business Process-Related Information**

Microsoft Office documents can no longer be displayed and edited in place within the *Manage Risk Assessments* app. This feature has been reworked in the following way:

1. The user selects one of the available template documents.
   - With this renovation, the system now offers multiple templates.
   - However, it is only possible to upload one result document.
2. The user downloads the chosen document to the frontend.
3. The user edits the document using the appropriate Microsoft Office application.
4. The user uploads the edited document as the result.

The business process as such has not changed, only the way in which such a document is handled.

**Required and Recommended Action(s)**

1. Check if you have defined assessment steps using Microsoft Office documents as the analysis method.
   - Open the Customizing activity *Environment, Health and Safety -> Health and Safety Management -> Risk Analysis -> Specify Assessment Steps and Analysis Methods*.
   - Check if the analysis method *Office Integration (Word)* (EHHSS_ANM_OFFICE_DOC) or *Office Integration (Excel)* (EHHSS_ANM_OFFICE_DOC2) has been assigned somewhere.
2. If so, inform your business users about the new approach described above.
The changed handling on the UI should be self-explanatory enough that no extensive training is necessary.

**How to Determine Relevancy**

This simplification item is relevant if you have assessment steps defined that use Microsoft Office integration as the analysis method. This is the case if table EHHSSC_ANMASSIGN contains entries where the field TAB_ID = "OFFICE_DOC".

**Other Terms**

Environment, Health and Safety; Health and Safety Management; Operational Risk Assessment

**23.23S4TWL - Replacement of Excel integration in Exposure Assessment**

Application Components:EHS-SUS-HS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3039679</td>
<td>S4TWL - Refactoring Office integration in EHS Risk Assessment (2)</td>
</tr>
</tbody>
</table>

**Symptom**

You carrying out a system conversion or an upgrade to SAP S/4HANA 2021.

The following SAP S/4HANA transition worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

The *Manage Risk Assessments* app enables you to configure the process step *Exposure Assessment (Quantitative) / Quantitative Exposure Assessment*. Within this step it was possible to interface to a Microsoft Excel document for the calculation of the exposure assessment result synchronously and inside the browser.
As the integration of Microsoft Office into browsers is no longer supported, this feature has been reworked using explicit downloading and uploading.

**Business Process-Related Information**

Microsoft Office documents can no longer be displayed and edited in place within the *Manage Risk Assessments* app. This feature has been reworked the following way:

1. The user downloads the Microsoft Excel document to the frontend.
   - All relevant measurement and sampling data is downloaded with the file.
2. The user edits the document using Microsoft Excel.
3. The user uploads the edited document.
   - The exposure assessment calculated within that document is read from the file and written back to the SAP system.

The business process as such does not change, only the in which such a document is handled.

**Required and Recommended Action(s)**

1. Check if you have the assessment step *Quantitative Exposure Assessment* in use.
   - Open the Customizing activity *Environment, Health and Safety -> Health and Safety Management -> Risk Analysis -> Specify Assessment Steps and Analysis Methods*.
   - Check if Analysis Method *Quantitative Exposure Assessment* (EXP_ASSMNT_QUANT) has been assigned somewhere.
2. If yes, inform your business users about the new approach described above.
   - The changed handling in the UI should be self-explanatory enough that no extensive training is necessary.

**How to Determine Relevancy**

This simplification item is relevant if you have *Quantitative Exposure Assessment* defined as the analysis method. This is the case if table EHHSSC_ANMASSIGN contains entries where the field TAB_ID = "EXP_ASSMNT_QUANT".

**Other Terms**

Environment, Health and Safety; Health and Safety Management; Operational Risk Assessment
23.24S4TWL - Occupational Health

Application Components: EHS-HEA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267782</td>
<td>S4TWL - Occupational Health</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With *SAP EHS Management* as part of *SAP ERP*, customers can use the *Occupational Health* (EHS-HEA) function to support general employee occupational healthcare in their company.

In *SAP S/4HANA* this solution is no longer available.

For *SAP S/4HANA* 1709 and higher the add-on solution *SAP EHS Management for SAP S/4HANA*, *occupational health* is available to re-establish this *Occupational Health* function.

Business Process related information

*Occupational Health* (EHS-HEA) is not available in *SAP S/4HANA*.

Transcations not available in SAP S/4HANA on-premise

<table>
<thead>
<tr>
<th>Transactions</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHSAMBTAEI, EHSASSIGN, EHSASSLTA, EHSASSPERS,</td>
</tr>
<tr>
<td>EHSBC02, EHSBP11, EHSBP12, EHSBP13, EHSBP31, EHSBP32, EHSBP33, EHSBP41, EHSBP42, EHSBP43, EHSBP51, EHSBP52, EHSBP53, EHSCLPROX, EHSCEBER, EHSCDCT, EHSCEMAS, EHSDATIMP, EHSdiagSL, EHSVEAL00, EHSEXIST0, EHSCH_C_NR_EXA_C, EHSCH_C_NR_NEWPE, EHSCH_C_NR_RECNI, EHSCH_C_NR_VAC_1, EHSCH_D_CALPHYS, EHSCH_D_PCP,</td>
</tr>
</tbody>
</table>
For S/4HANA 1709, the Repeatable Customer Solution "SAP EHS Management for SAP S/4HANA, occupational health" is available as a replacement. This add-on is technically and from a functional point of view equivalent to the deprecated *Occupational Health* (EHS-HEA) function.

**Required and Recommended Action(s)**

- If you want to remove the *Occupational Health* (EHS-HEA) function from your system, ...
  - ... this is done automatically by the S/4HANA system conversion (for target release S/4HANA 1610 and below)
  - ... just confirm the pre-check error during the conversion check (for target release S/4HANA 1709 and higher)

- If you want to continue using your existing *Occupational Health* functionality in S/4HANA, make sure **not to convert to SAP S/4HANA 1511 or 1610**.
  - These conversions would delete all EHS-HEA objects including all existing EHS-HEA data.
  - Instead, include the previously mentioned add-on using the *SAP Maintenance Planner* into your conversion to SAP S/4HANA 1709 or higher.
    - If you don't do so and install the add-on after the conversion, your existing data for *Occupational Health* will get lost!

If you proceed as described, all your *Occupational Health* data, transactions and processes will stay untouched. For further details see the referenced notes.

**Other Terms**

Occupational Health, EHS-HEA

---

**23.25S4TWL - Deprecation of Incident Management Apps**

Application Components:EHS-SUS-IM

Related Notes:
Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | **3127469** | S4TWL - Deprecation of Incident Management Apps

### Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

### Solution

#### Description

Apps in the SAP S/4HANA solution for EHS incident management are deprecated as of SAP S/4HANA 2021.

The corresponding functionalities are covered by new or enhanced SAP Fiori apps.

#### Business Process-Related Information

The following apps have been deprecated:

<table>
<thead>
<tr>
<th>Web Dynpro App/App ID</th>
<th>Description</th>
<th>Successor App</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHHSS_INC_REC_QAF</td>
<td>Report Incident - Basic Recording</td>
<td>Report Incident (F1992)</td>
</tr>
<tr>
<td>EHHSS_INC_REC_GAF_V3</td>
<td>Report Incident - Detailed Recording</td>
<td>Report Incident (F1992)</td>
</tr>
<tr>
<td>EHHSS_INC_REC_SFO_QAF_V3</td>
<td>Report Safety Observation</td>
<td>Report Incident (F1992)</td>
</tr>
<tr>
<td>EHHSS_INC_REC_NRM_QAF_V3</td>
<td>Report Near Miss</td>
<td>Report Incident (F1992)</td>
</tr>
<tr>
<td>EHHSS_INC_ENTRY</td>
<td>Manage Incidents</td>
<td>Manage Incidents (F4759)</td>
</tr>
<tr>
<td>F3781</td>
<td>Manage Summary Reports</td>
<td>Manage Summary Reports (F4758)</td>
</tr>
</tbody>
</table>

#### Required and Recommended Actions

The app tiles are no longer available by default on the SAP Fiori launchpad. You can still access the apps via the app finder and continue using them until they become obsolete in one of the next releases. Therefore, we recommend that you switch to the successor app as soon as possible.

### How to Determine Relevancy
This Transition Worklist item is relevant for you if you are using one or more of the deprecated apps that are listed above.

### 23.26S4TWL - Deprecation of Manage Compliance Requirement app

Application Components: EHS-SUS-EM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3139973</td>
<td>S4TWL - Deprecation of Manage Compliance Requirement app</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this SAP Note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Reason and Prerequisites**

Upgrade

**Solution**

**Description**

With SAP S/4HANA 2022, the WebDynpro app *Manage Compliance Requirement* has been deprecated and is no longer available on the SAP Fiori launchpad. The corresponding functionalities are covered by a new SAP Fiori app.

**Business Value**

The successor app comes with a state-of-the-art SAP Fiori user interface and provides an improved user experience.

**Business Process Related Information**

You can find more information about the deprecated app and its successor app below.

<table>
<thead>
<tr>
<th>Web Dynpro App/App ID</th>
<th>Deprecated App</th>
<th>Successor App</th>
</tr>
</thead>
<tbody>
<tr>
<td>EHENV_REQ_ENTRY_OIF</td>
<td>Manage Compliance Requirement</td>
<td>Manage Compliance Requirements - Regulations, Permits, Policies (F5038)</td>
</tr>
</tbody>
</table>

#### Required and Recommended Action(s)

- Make sure that you switch to the successor app as soon as possible. This need to happen latest before the next release upgrade of your SAP S/4HANA system.
- If you use any custom setup or extensions, note that they cannot be migrated automatically to the SAP Fiori app. You need to recreate them with the support of your service team.

#### Other Terms

SAP S/4HANA, Upgrade, WebDynpro

#### 23.27S4TWL - Enablement for continuous delivery of listed substance content

Application Components: EHS-SUS, EHS-SUS-CI

#### Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3344198</td>
<td>S4TWL - Enablement for continuous delivery of listed substance content</td>
</tr>
</tbody>
</table>

#### Symptom

You are doing an upgrade to SAP S/4HANA 2023 or higher and you are using one of the following products:

- SAP S/4HANA for Product Compliance
- SAP EHS Management: Product and REACH Compliance
- SAP Environment, Health, and Safety Management: Health and Safety
- SAP Environment, Health, and Safety Management: Environment Management

The following SAP S/4HANA Simplification Item is applicable in this case: SI29: Logistics_EHS - Listed Substance Content.

#### Reason and Prerequisites
Renovation

Solution

Description

Content for listed substances will no longer be shipped in client independent tables. The latter will be gradually sunset and replaced by client dependent tables which will be filled with content delivered by the SAP Regulatory Content Service.

This note will be regularly updated to inform about the sunset tables.

Required and Recommended Action(s)

- Find out whether you have customer specific implementations in place which access the following tables:
  - EHFNDI_LSCOND
  - EHFNDI_LSCOND_T
- Replace access to the above tables with access to table EHFNDD_LSCOND.
- Configure the SAP Regulatory Content Service for Environment, Health, and Safety Management and Product Compliance as described in SAP Note 3055767
- Plan background job SAP_EHFND_PC_CONTENT_LOAD as described in the corresponding customizing activities:
  - SAP S/4HANA for Product Compliance: Schedule Job: Product Compliance -> Foundation for Product Compliance -> Product Compliance Background Processing -> Schedule Jobs for Product Compliance Background Processing
  - SAP EHS Management: Product and REACH Compliance: Product Safety and Stewardship -> Product Compliance for Discrete Industries -> Integration -> Specify Jobs for Listed Substance Content Integration
  - SAP Environment, Health, and Safety Management: Environment, Health and Safety -> Foundation for EHS -> Integration -> Listed Substance Content Integration -> Specify Jobs for Listed Substance Content Integration

Other Terms

SAP S/4HANA; Upgrade; Environment, Health, and Safety; Product Compliance; Regulatory Content Infrastructure for Sustainability; EHFNDI_LSCOND;
EHFNDD_LSCOND; SAP_EHFND_PC_CONTENT_LOAD; SI29.

### 23.28S4TWL - Waste Management

Application Components: EHS-WA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267783</td>
<td>S4TWL - Waste Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With *SAP EHS Management* as part of *SAP ERP*, customers can use the *Waste Management* (EHS-WA) solution for handling waste disposal processes within their company. In *SAP S/4HANA* on-premise edition 1511, this solution is not available.

**Business Process related information**

*Waste Management* (EHS-WA) is not available in *SAP S/4HANA* and the related business processes are no longer supported.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | WAA01, WAA02, WAA03, WAA04, WAA10, WAA11, WAA12, WAA13, WAA19, WAA20, WAA21, WAA22, WAA23, WAA24, WAA25, WAA26, WAAP, WACB01, WACM01, WACM02, WACM03, WACM04, WACM10, WACM30, WACO02, WACO02OLD, WACO03OLD, WACO04OLD, WACS1, WACS2, WACS3, WACS4, WACS6, WADC, WADI, WAE01, WAE02, WAE03, WAE10, WAE2, WAGM, WAM01, WAM02, WAM03, WAM04, WAM05, WAMC, WAMI, WAMR, WANP, WAREP001, WASM100, WASM101, WASM102, WASM109, WASS100, WASS101, WASS102, WASS103, WASS104, WASS105, WASS106, WASS107, WASS108, WASS110, WASS111, WASS112, WASS113, WASS114, WASS115, WASS116, WASS117, WASS118, WASS119, WASS120, WASS121, WASS122, WASS123, WASS124, WATR, WATREE |
Required and Recommended Action(s)

None

Related SAP Notes

| Custom Code related information | SAP Note: 2217202 |

23.29S4TWL - Simplification in Incident Management and Risk Assessment

Application Components: EHS-MGM-INC, EHS-MGM-RAS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267784</td>
<td>S4TWL - Simplification in Incident Management and Risk Assessment</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With component extension for *SAP EHS Management*, customers can use the *Incident Management* (EHS-MGM-INC) solution and the *Risk Assessment* (EHS-MGM-RAS) solution for managing their health and safety business processes. In *SAP S/4HANA* on-premise edition 1511, the some functions are not available.

Incident Management

The following incident management functions are not available in *SAP S/4HANA*:

- BI extraction and queries for incident reporting
  - Datasource 0EH_INCIDNT_ATTR, Function Module EHHSSEX_A_0EH_INCIDNT
  - Datasource 0EHSM_HSS_INC_REC_01, Function Module EHHSSEX_D_INCIDENTS
  - Datasource 0EHSM_HSS_INC_REC_02, Function Module EHHSSEX_D_INJURIES
- Datasource 0EHSM_HSS_INC_REC_03, Function Module EHHSSEX_D_ASSETS
- Datasource 0EHSM_HSS_INC_REC_04, Function Module EHHSSEX_D_FINANCIAL
- Datasource 0EHSM_HSS_INC_REC_05, Function Module EHHSSEX_D_RELEASES
- Datasource 0EHSM_HSS_INC_REC_06, Function Module EHHSSEX_D_ACTIONS
- Datasource 0EHSM_HSS_INC_REC_07, Function Module EHHSSEX_D_INVESTIGATIONS
- Datasource 0EHSM_HSS_INC_REC_08, Function Module EHHSSEX_D_RISK_ASSESSMENTS
- Datasource 0EHSM_HSS_INC_REC_09, Function Module EHHSSEX_D_VIOLATIONS
- All Incident Text Datasources like 0EH_INJCODE_TEXT, 0EH_INCGRP_TEXT

  - GRC integration of incidents
  - MM integration for released material as part of incidents
  - Novareto integration for incidents
  - eSOA services for incidents
  - Enterprise search for incidents
  - Direct creation of HR absences from incidents
  - Creation of quality notifications from incidents
  - Creation of service notifications from incidents
  - Service orders for financial tracking

**Risk Assessment**

The following risk assessment functions are not available in *SAP S/4HANA*:

- BI extraction and queries for chemicals
- Amounts/data series
- Creation of customer notifications from risk assessments
- Creation of quality notifications from risk assessments
- IH work area integration with locations
- Application "Identification of risks effected by OEL changes"
  - Technically: Web Dynpro application EHHSS_UI_AGT_OEL_CHNG_QAF

**Business Process related information**

Incident reporting is not available in *SAP S/4HANA* on-premise edition 1511. There is no functional equivalent available.
Reporting for chemicals is not available in SAP S/4HANA on-premise edition 1511. There is no functional equivalent available.

The amounts/data series function is not available within SAP S/4HANA, on-premise edition 1511. You can collect amounts using workplace sampling process. For more information, see SAP Note 2065178.

**Required and Recommended Actions**

Recommended actions for Incident Management:

- Close all open quality notifications for incidents.
- Set the end date of recurring quality notifications for incidents to a date that is earlier than the conversion to the target system.
- Close all open customer service notifications for incidents.
- Set the end date of recurring customer service notifications for incidents to a date that is earlier than the conversion to the target system.

Recommended actions for Risk Assessment:

- Close all open quality notifications for risk assessments.
- Set the end date of recurring quality notifications for risk assessments to a date that is earlier than the conversion to the target system.
- Close all open customer service notifications for risk assessments.
- Set the end date of recurring customer service notifications for risk assessments to a date that is earlier than the conversion to the target system.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>SAP Note: 2217208</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional related SAP Notes</td>
<td>SAP Note: 2065178</td>
</tr>
</tbody>
</table>

**23.30S4TWL - Removal of EHS workflows for requesting controls, impacts, agents**

Application Components:EHS-MGM-RAS, EHS-SUS-HS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2330017</td>
<td>S4TWL - Removal of Health and Safety workflows for requesting controls, impacts, agents, hazards</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

Within EHS Risk Assessment there used to be various places where - during a process - the user could request the creation of certain missing master data objects by clicking a link or a button and thereby starting a creation workflow to an administrator. As these workflows are quite cumbersome and oversized for that task, this functionality was removed and the workflows were deleted.

The following functions no longer exist in Health and Safety Management (formerly known as Risk Assessment)

- **Requesting controls** ...
  - ... while editing controls in a Risk Assessment
  - ... while indentifying risks using the guided activity for Risk Identification
- **Requesting impacts** ...
  - ... while editing impacts in the Edit Impact popup window
  - ... while indentifying risks using the guided activity for Risk Identification
- **Requesting agents** ...
  - ... while indentifying risks using the guided activity for Risk Identification
- **Requesting hazards** ...
  - ... while indentifying risks using the guided activity for Risk Identification

Technical Details

The following WebDynpro component configurations were changed so that the according buttons and links are no longer shown on the screens.

- EHHSS_RAS_OIF_NEWCONTR_LST (for Controls)
- EHHSS_RAS_IDENTIF_CON_LST (for Controls)
- EHHSS_RAS_OIF_REV_IMP_LST (for Impacts)
- EHHSS_RAS_IDENTIF_IMP_LST (for Impacts)
- EHHSS_RAS_HAZ_PHYS_AGT_LST (for Agents)
- EHHSS_RAS_IDENTIF_HAZARD_LST (for Hazards)
- EHHSS_RAS_HAZ_PHYS_AGT_LST (for Hazards)
• EHHSS_RAS_IDENTIF_HAZ_JHA_LST (for Hazards)
• EHHSS_RAS_IDENTIF_CHM_DLG_LST (for Hazards)
• EHHSS_RAS_IDENTIF_AIRBOR_DLG_LST (for Hazards)

Business Process related information

The creation of needed master data within the above processes will have to be managed differently in the future. Triggering an administrator to perform this activity should be done via traditional channels like telephone or email.

Required and Recommended Action(s)

Knowledge transfer to key and end users.

How to Determine Relevancy

This Simplification Item is relevant if you have EHS Risk Assessment in use. This is usually the case if table EHHSSD_RAS_ROOT has 20 or more entries.

Other Terms

Environment, Health and Safety, EHS Risk Assessment

23.31S4TWL - Responsible person for Planned Maintenance at EHS locations

Application Components: EHS-SUS-HS, EHS-SUS-EM, EHS-SUS-FND, EHS-MGM, EHS-SUS-IM

Related Notes:

<table>
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<tr>
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<th>Note Description</th>
</tr>
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<tr>
<td>Business Impact</td>
<td>2329611</td>
<td>S4TWL - Responsible person for Planned Maintenance at EHS locations</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution
Description

The EHS Location master data object used to have a screen to maintain the Planned Maintenance responsible person for this location. In SAP S/4HANA this screen is not shown for locations which are linked to S/4HANA Enterprise Asset Management (EAM) objects (like equipments or functional locations).

Business Process related information

The Planned Maintenance responsible person is redundant information within EHS as it already has been maintained at the linked EAM object. Users can jump to the linked EAM object from EHS by clicking on it. There the responsible person can be viewed.

Required and Recommended Action(s)

Knowledge transfer to key and end users.

How to Determine Relevancy

This Simplification Item is relevant if you have EHS Risk Assessment in use. This is usually the case if table EHHSSD_RAS_ROOT has 20 or more entries.

Other Terms

Plant Maintenance, PM, Enterprise Asset Management, EAM

23.32S4TWL - Remote Integration Scenarios with EHS Health and Safety Management

Application Components: EHS-SUS-FND, EHS-MGM

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2329574</td>
<td>S4TWL: Remote integration scenarios of EHS</td>
</tr>
</tbody>
</table>

Symptom

You execute a system conversion in SAP S/4HANA, On-Premise edition. The following SAP S/4HANA transfer worklist entry is relevant in this case.
Reason and Prerequisites

Renewal

Solution

Description

The following remote integration scenarios for EHS under S/4HANA are no longer supported:

- Integration of EHS with an external **Enterprise Asset Management** (EAM, PM) system
- Integration of EHS with an external **Work Clearance Management** (WCM) system
- Integration of EHS with an external **Material Management / Inventory Management** (MM/IM) system
- Integration of EHS with an external **substance or specification database**
- Integration of EHS with an external **Financials** (FIN/Accounting) system
- Integration of EHS with an external **Human Resources/Human Capital Management** (HR, HCM) system
- Integration of EHS with an external **business partner** (BuPa) administration

Business partner process-related information

It is only possible in S/4HANA with the S/4HANA own functions and modules to integrate the above areas. Other integrations are not supported.

Required and recommended action(s)

Contact your SAP Account Manager, if you currently connect EHS with an external system of the type described above, and discuss possible alternatives.

Determination of relevance

This simplification item is relevant if you want to connect EHS with one or several external systems of the types mentioned above.

Other Terms

EHS Risk Assessment, EHFND_INT_DEST_TYPE, DEST_PM, DEST_HR, DEST_BUPA, DEST_ACC, DEST_EHS, DEST_MMIM
23.33S4TWL - Conversion relevant changes in EHS

Application Components: EHS-MGM, EHS-SUS-IM, EHS-SUS-HS, EHS-SUS-FND

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2336396</td>
<td>S4TWL - Conversion-relevant changes in EHS</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

You want to convert component extension for SAP EHS Management or EHS Management as part of SAP ERP to SAP S/4HANA 1610 or higher. The attached conversion information provides information about specific activities for Environment, Health, and Safety that you have to carry out before or after the conversion.


Reason and Prerequisites

Renovation

Solution

Description

See attachment

Business Process related information

See attachment

Required and Recommended Action(s)

See attachment

How to Determine Relevancy
This Simplification Item is relevant if you have EHS Risk Assessment or EHS Incident Management in use. This is usually the case if table EHHSSD_RAS_ROOT has 20 or more entries or if table EHHSSD_INC_ROOT has 20 or more entries.

Other Terms

Environment, Health, and Safety as part of SAP S/4HANA; conversion to SAP S/4HANA
24. Logistics – GT

24.1 S4TWL - Global Trade Management

Application Components: LO-GT

Related Notes:

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<thead>
<tr>
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<th>Note Description</th>
</tr>
</thead>
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<tr>
<td>Business Impact</td>
<td>2267785</td>
<td>S4TWL - Global Trade Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

- Simplification of DB Key Fields and tables structures (WBHF, WBGT, WBIT, WBASSOC, WCOCOF, WB2_D_BUSVOLBASE, WB2_D_BVB_SETTL)
- Replacement of concatenated fields by corresponding new fields in mentioned DB tables (Future details can be found in the mentioned notes below)
- Change of Domain definition from CHAR to NUMC for item number related fields
- Replaced fields are moved to the dynamical part of the communication structures to avoid runtime errors and to ensure the same system behaviour as before

Business Process related information

Dictionary changes will have no influence on the business processes as such. Custom related code has to be adjusted to adopt the new data model. If one of the obsolete transactions or reports is used within the business process the new transactions and reports have to be used instead. Differential Invoicing is not part of SAP S/4HANA anymore because these transactions are replaced already in SAP ERP EHP7 by the Differential Invoicing Functionality of Commodity Management.

Transaction Codes and Reports not available in SAP S/4HANA

See also note 2204137
<table>
<thead>
<tr>
<th>Obsolete Report</th>
<th>Obsolete Report Title</th>
<th>Obsolete TCode</th>
<th>Successor Report</th>
<th>Successor Report Title</th>
<th>Successor TCode</th>
</tr>
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<tbody>
<tr>
<td>RWB2B001</td>
<td>Trading Contract: General Document Overview</td>
<td>WB25_COMP</td>
<td>RWB2BMA</td>
<td>Mass Processing (Release and Status update)</td>
<td>WB24N</td>
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<tr>
<td>WB2B_CREATE_TC_US ER</td>
<td>Create User For TC At Web</td>
<td>WB2B_NETUSER</td>
<td></td>
<td></td>
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<tr>
<td>RWB2DI001</td>
<td>Generate Differential Invoices</td>
<td>WB2DI1</td>
<td></td>
<td></td>
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<tr>
<td>RWB2DI002</td>
<td>Over of Billing Documents relevant for Creating Differential Invoices</td>
<td>WB2DI2</td>
<td></td>
<td></td>
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<tr>
<td>RWB2DI003</td>
<td>Process Billing Documents regarding Differential Invoices</td>
<td>WB2DI3</td>
<td></td>
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<tr>
<td>RWB2DI004</td>
<td>Process Billing Documents regarding Differential Invoices</td>
<td>WB2DI4</td>
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<tr>
<td>RWB2B006</td>
<td>Trading Contract: Financial Documents</td>
<td>WB31</td>
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</table>

**Obsolete TCode Successor TCode**

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<th>Successor TCode</th>
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</thead>
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<td>POFO1</td>
<td>POFO31</td>
</tr>
<tr>
<td>POFO2</td>
<td>POFO32</td>
</tr>
<tr>
<td>POFO3</td>
<td>POFO33</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

For Target release SAP S/4HANA 1511 and SAP S/4HANA 1610:
Pre-Check is performed for the component LO-GT. Custom code adoption on the new DB-Design can be checked in the start release to identify the code places which have to adjust to the new DB-Structures. Batch or online processes which needed the obsolete transactions or reports have to be adjusted so that the new transactions and reports are used instead.

**Related SAP Notes**

| Custom Code related information | SAP Notes: 2198031, 2204137, 2198035 |

If you use Trading Contracts, please check note 2198031 for additional information.

If you use Condition Contracts, please check note 2204137 for additional information.

### 24.2 S4TWL - Invoice Forecasting Worklist not available in SAP S/4HANA

**Application Components:** LO-AB-IFW

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2739164</td>
<td>S4TWL - Invoice Forecasting Worklist not available in SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA and using IFW in your original system, you will find switch ISR_GLTE_IFW as always deactivated in SAP S/4HANA systems. Thus, you cannot use invoice forecasting in SAP S/4HANA systems.

**Reason and Prerequisites**

Functionality not available.

**Solution**

**Description**

Switch ISR_GLTE_IFW is deactivated in SAP S/4HANA systems and thus invoice forecasting cannot be used in SAP S4/HANA systems.

**Business Process related information**
Implemented business processes need to be adjusted since the functionality is no more available. IFW data will no more remain relevant in SAP S/4HANA systems.

**Required and Recommended Action**

IFW related data will no more remain relevant.

**How to Determine Relevancy**

This simplification item is relevant if Invoice forecasting worklist functionality is in use which means table IFW_WORKLIST has data.

**Other Terms**

IFW, SAP S/4HANA.
25. Logistics - Management of Change

25.1 S4TWL - Simplifications in Management of Change

Application Components: CA-IAM-MOC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2616203</td>
<td>S4TWL - Simplifications in Management of Change</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation

**Solution**

**Description**

The following features of Management of Change (MOC) are **not** available in SAP S/4HANA:

- Enterprise service to create change requests
- Web Dynpro application "Change Request - Quick Entry"
- MOC Home Page
- "Ask an Expert" function for change requests
- Determination of people based on business partner hierarchy (see SAP Note 2409939)
- Integration of related objects from remote systems
- Operational data provisioning to analyze change requests and activities

The following features of MOC have been changed in SAP S/4HANA:

- The worklist (POWL) for change requests and activities has been replaced by SAP Fiori apps.
- The business partner integration has been adjusted to the SAP S/4HANA business user concept (see SAP Note 2570961). Business User Management supports only business partners of category *Person* (BUT000-TYPE = 1).
• The way of adding activities to change requests or activities has been simplified. Only adding activities from templates is supported.

The following related object types are supported for MOC on the local SAP S/4HANA system:

• Batch (BAT)
• Change Master (ECN)
• Customer (CUS)
• Document (DOC)
• Equipment (EQ)
• Functional Location (FL)
• Internal Order (IO)
• Material (MAT)
• Outbound Delivery (DLV)
• Outbound Delivery Item (DLI)
• Plant (PLA)
• Plant Maintenance Notification (PMN)
• Plant Maintenance Order (PMO)
• Purchase Order (PO)
• Purchase Order Item (POI)
• Risk Assessment Request in EHS (RAR)
• Vendor (VEN)

**Business Process Related Information**

To create change requests, you can use the "Change Request" Web Dynpro application instead of the enterprise service and the Web Dynpro application "Change Request - Quick Entry". It can be accessed in creation mode with parameters to predefined certain attributes like change request type or leading object.

To access change requests and activities, you can use the new Fiori apps "Manage Change Requests" and "Manage Change Activities" instead of the "MOC Home Page".

The "Ask an Expert" function has not been replaced by an equivalent.

The process for determination of people has not changed, although adjustments in configuration may be required.

Related objects have to be available on the local SAP S/4HANA system. To be compatible with existing and planned features in MOC on SAP S/4HANA, you must **not** add the following:
• Related objects from remote systems.
• Other related object types than the listed above.

The operational data provisioning has not been replaced by an equivalent.

The worklist (POWL) to manage change requests and activities has been replaced by the following SAP Fiori apps:

• Manage Change Requests
• Manage Change Activities

The way of handling business users in change requests and activities is the same as it was for business partners. Adjustments in configuration may be required.

The previous versions of MOC have offered two options to add activities: "Add Manually" and "Add from Template". In SAP S/4HANA, you can add activities only from templates.

**Required and Recommended Actions**

If the enterprise service or the Web Dynpro application "Change Request - Quick Entry" has been used, use the Web Dynpro application “Change Request” instead.

Check in Customizing under *Cross-Application Components > Management of Change > Define Change Request Type* which reference objects (related objects) you are using in MOC. Check in Customizing under *Cross-Application Components > Management of Change > Settings for Reference Objects* if a remote access has been configured for these reference objects. Ensure that you only use reference objects without remote access in MOC.

Ensure the correct and complete setup of the business user management. For more information, see SAP Note 2570961.

Check setup for people determination:

• In Customizing under *Management of Change > Define Partner Role* ensure that none of the active entries contains Business Partner Hierarchy as Position Origin.
• In *Basic Determination of People* (transactions /MOC/CRBP and /MOC/ACTBP) and *Additional Determination of People using BRFplus* ensure that active entries:
  o Only contain business users as Business Partner.
  o Do not contain Positions from the Business Partner Hierarchy.
If users of MOC have used "Add Manually" to add activities of certain activity types, define equivalent activity templates for these activity types.

**How to Determine Relevancy**

This simplification item is relevant if you have MOC in use. This is usually the case if table /IAM/D_I_ROOT has 20 or more entries for APPLICATION 'MOC'.

**Other Terms**

Management of Change, MOC, Change Request
26. Logistics - MM-IM

26.1 S4TWL - FMP in S4HANA

Application Components: IS-CWM, MM-IM-GF-CWM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2414624</td>
<td>S4TWL - Flexible Material Prices (FMP) in S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

If you have activated the Business Function /CWM/FMP of the Industry Solution IS-CWM, the following SAP S/4HANA transition worklist item is applicable.

Flexible Material Prices (FMP) is not supported in SAP S/4HANA even though objects are technically given in QRT_STAG.

Reason and Prerequisites

Module FMP was introduced with EHP5 of the Industry Solution IS-CWM to support the customer created price types within the migration to the 'new architecture' of CWM (for more details please see also note 2358928). In Inventory Accounting as part of the 'old Architecture' all prices were organized in price types. With the migration all existing and important prices were transferred into the standard tables of ERP. But in case a customer had created own price types the related prices had to be stored in FMP since there was no separate data storage in ERP available. In seldom cases customer used this opportunity and defined own price types. So SAP decided to not support the FMP-module anymore in S/4HANA.

Solution

To check the usage of own price types in FMP call transaction SE16, select table '/FMP/D_MP_PRIC' and execute. Press the button 'Number of Entries' and in case the appearing popup shows no entries found you are sure that no own prices were maintained in FMP.

Please be aware that for S/4HANA:

- FMP-data cannot be migrated
- a call of FMP transactions and reports will cause a dump (Blacklisted objects)
• objects starting with '/FMP/' must not be used in customer coding (see note 2296016)

Other Terms

FMP, CWM, IS-CWM, S/4HANA, Simplification List, Flexible Material Prices

26.2 S4TWL - Blocked customer or supplier in Inventory Management


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2516223</td>
<td>S4TWL - Blocked customer or supplier in Inventory Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The end of purpose check for customer and supplier master data has changed in Inventory Management. From SAP S/4HANA 1709 onwards the following requirements must be fulfilled for blocking customer or supplier master data:

- Material documents that are related to the customer or supplier to be blocked must be archived.
- Special stocks that are related to the customer or supplier to be blocked must be archived or deleted.
- Physical inventory documents that are related to the customer or supplier to be blocked must be archived.
- Open reservations that are related to the customer or supplier to be blocked must be deleted.
- The customer or supplier to be blocked must be removed from plant and storage location data.
- The condition tables used to control the sending of receipt request messages to the Ariba Network must not contain records related to the supplier to be blocked.
• Batch input test data that is related to the supplier to be blocked must be deleted (or changed).
• Short documents (as substitutes for archived material documents) that are related to the supplier to be blocked must be deleted.
• Correction data (contained in database table MMINKON_UP) that is related to the customer or supplier to be blocked must be deleted.
• Consistency check results of aged material documents that are related to the customer or supplier to be blocked must be deleted.
• In case of an upgrade from 1511/1610/1709 to 1709-FPS01 or higher, please read note 2629400

Required and Recommended Action(s)

Material documents, special stocks, physical inventory documents and open reservations that are related to blocked customer or supplier master data shall be archived or deleted before converting or upgrading to SAP S/4HANA 1709 (and above).

Open reservations can be deleted (or flagged for deletion) using transactions MB22 and MBVR. Material documents, special stocks and physical inventory documents can be archived using archiving objects MM_MATBEL, MM_SPSTOCK and MM_INVBEL. Special stocks can be deleted using data destruction objects MM_STO_CONSI_DEST and MM_STO_SOBES_DEST.

Furthermore, blocked customers and suppliers shall be removed from plant and storage location data:

• The assignment of a blocked customer to a plant can be removed via SAP Reference IMG / SAP Customizing Implementation Guide (transaction SPRO): Materials Management -> Purchasing -> Purchase Order -> Set up Stock Transport Order -> Define Shipping Data for Plants.
• The assignment of a blocked supplier to a plant can be removed via transaction XK02 -> Purchasing data -> Extras -> Additional Purchasing Data.
• The assignment of a blocked customer or supplier to a storage location can be removed via SAP Reference IMG / SAP Customizing Implementation Guide (transaction SPRO): Materials Management -> Purchasing -> Purchase Order -> Set up Stock Transport Order -> Set Up Stock Transfer Between Storage Locations -> Define Shipping Data for Stock Transfers Between Storage Locations.

Condition tables can be changed using transaction NACE:

1. Select application ME (Inventory Management) and enter “Condition records (F8)”
2. Select Output Type ARIB (Ariba Rcpt Request)
3. Select key combination ("Supplier/CoCode" or "Supplier")
4. In the selection screen for the condition records enter the supplier for that you want to create or display conditions and press execute (F8).
5. Enter the conditions (supplier, respectively company code; the other attributes can be ignored).
6. Save the changes.

Moreover, batch input test data, short documents, correction data and consistency check results shall be deleted:

- Batch input test data can be deleted (or changed) using maintenance view V_159A.
- Short documents (as substitutes for archived material documents) can be deleted using report RM07MAID.
- Correction data (contained in database table MMINKON_UP) can only be deleted manually.
- Consistency check results of aged material documents can be deleted using report NSDM_MATDOC_CHECK_AGED_DATA.

**How to Determine Relevancy**

With notes 2502552, 2524011, 2536568 and 2585925 SAP offers a Simplification Item Check to identify blocked customers and suppliers in Inventory Management. Alternatively, the following steps can be performed:

1. Identify blocked customer master data in database table KNB1. The customer is blocked when the field CVP_XBLCK_B is set. Plants assigned to the company code of the customer master record can be identified via transaction OX18.
2. Identify blocked supplier master data in database table LFB1. The supplier is blocked when the field CVP_XBLCK_B is set. Plants assigned to the company code of the supplier master record can be identified via transaction OX18.
3. Identify material documents, special stocks, physical inventory documents, open reservations, plants and storage locations that are related to blocked customer or supplier master data in the following database tables: ISEG, MKOL, MSEG, MSKU, MSLB, MSSL, RESB, RKPF, T001W and T001L. For Discrete Industries and Mill Products (DIMP) the following database tables are relevant in addition: MCSD, MCSS, MSCD, MSCS, MSFD, MSFS, MSID, MSIS, MSRD and MSRS. Filter these database tables by the plant (field WERKS) and by the customer or supplier. The customer can be contained in the field KUNNR or VPTNR. The supplier can be contained in the field DISUB_OWNER, EMLIF, LIFNR, LLIEF or OWNER.
4. Identify condition records used to control the sending of receipt request messages to the Ariba Network that are related to blocked supplier master data in the database tables B082 ("Supplier/CoCode") and B083 ("Supplier"). In both tables the supplier can be contained in the field ARRLIFNR.
5. Identify batch input test data that is related to blocked supplier master data by filtering the database table T159A by the plant (field WERKS) and by the supplier (field LIFNR).

6. Identify short documents that are related to blocked supplier master data by filtering the database table MARI by the plant (field WERKS) and by the supplier (field LIFNR).

7. Identify correction data that is related to blocked customer or supplier master data by filtering the database table MMINKON_UP by the plant (field WERKS) and by the customer or supplier. The customer can be contained in the field KUNNR. The supplier can be contained in the field LIFNR or OWNER.

8. Identify consistency check results that are related to blocked customer or supplier master data by filtering the database table NSDM_AGING_CHECK by the plant (field WERKS) and by the customer or supplier. The customer can be contained in the field KUNNR_SID. The supplier can be contained in the field LIFNR_SID or DISUB_OWNER_SID.

### 26.3 S4TWL - Document Flow Consistency for Goods Receipt to Inbound Delivery


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2542099</td>
<td>S4TWL - Document Flow Consistency for Goods Receipt to Inbound Delivery</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Reason: Conversion from SAP ERP to SAP S/4HANA.

Prerequisite: Business Function Set DIMP for Discrete Industries and Mill Products or Business Function Set DIMP_PS for Discrete Industries / Mill Products and Public Services not active in SAP ERP

**Solution**

**Description**
When using transaction MIGO to post goods receipt with reference to an inbound delivery, to cancel a goods receipt with reference to an inbound delivery or post a return delivery by referring to a material document posted with reference to an inbound delivery, the inbound delivery is not updated unless the indicator "Document flow update for stock postings and return delivery" is set in the Global Shipping Data.

This indicator in SAP ERP was so far optional and not set by default except for installations where the industry solutions for Discrete Industries and Mill Products have been activated. The implication of having that indicator not set are inconsistent and never completed inbound delivery documents which could not be archived.

In S/4HANA, the update of the inbound delivery is enforced to ensure the data consistency across different applications.

**Business Process related information**

When using transaction MIGO to post goods receipt with reference to an inbound delivery, to cancel a goods receipt with reference to an inbound delivery or post a return delivery by referring to a material document posted with reference to an inbound delivery, the new material document will be added as successor document to the inbound delivery and by that, the goods movement status will be updated accordingly to ensure the data consistency.

Certain additional system checks are performed by the inbound delivery to ensure data consistency, restricting the goods receipt process using transaction MIGO:

- Goods movement quantity

  In case a delivery item is not putaway-relevant, the goods receipt quantity must not be larger than the delivery quantity minus the current cumulated goods receipt quantity, otherwise message VLA 308 is raised.

  In case a delivery item is putaway-relevant, the goods receipt quantity must not be larger than the putaway quantity minus the current cumulated goods receipt quantity, otherwise message VLA 308 is raised.

  The return quantity must not be larger than the current cumulated goods receipt quantity, otherwise message VLA 319 is raised.

  The adaptation of delivery quantity or putaway quantity needs to be done via delivery maintenance by using transactions VL32N or VL60.

- Storage location
In case the storage location used for posting the material document differs from the storage location in the respective delivery item, message VLA 316 is raised.

Before posting goods movement, the respective storage location of the delivery item needs to be specified or changed via delivery maintenance by using transaction VL32N or VL60. Alternatively, specify the storage location in the purchasing document item to be copied to the inbound delivery item or use s referring to or configure the storage location determination to automatically fill the storage location for each of the inbound delivery items.

- **Batch number**

In case the batch number used for posting the material document differs from the batch number in the respective delivery item, message VLA 317 is raised.

Before posting goods movement, the respective batch number of the delivery item needs to be specified or changed via delivery maintenance by using transaction VL32N. Alternatively, use the automatic batch determination for deliveries to avoid a manual entry of batch numbers for goods receipt posting.

- **Serial number**

In case the serial numbers used for posting the material document differ from the serial numbers to the respective delivery item, message VLA 315 is raised.

Before posting goods movement, the respective serial numbers to the delivery item need to be specified or changed via delivery maintenance by using transaction VL32N.

- **Valuation type**

In case the valuation type used for posting the material document differs from the valuation type of the respective delivery item, message VLA 318 is raised.

- **Warehouse Management**

In case the inbound delivery item is relevant for putaway in warehouse management, message VLA 314 is raised.

The inbound delivery needs to be posted via delivery processing by using transactions VL32N, VL06I or VL60.

- **Distribution to decentral systems**
In case the inbound delivery has been distributed or has to be distributed to a decentral system (e.g. a warehouse management system like SAP EWM), due to an EWM relevant storage location, message VLA 302 is raised.

The inbound delivery has to be processed by the decentral system.

- Packing / Handling units

In case items of the inbound delivery are packed or relevant for packing, message VLA 311 is raised.

The inbound delivery needs to be posted via delivery processing by using transactions VL32N, VL06I or VL60.

- Items without purchase order reference

In case of items without purchase order reference, message VLA 322 is raised.

The inbound delivery needs to be posted via delivery processing by using transactions VL32N, VL06I or VL60.

- Incompleteness

In case the inbound delivery is incomplete, message VLA 303 is raised. In case the inbound delivery item is incomplete, message VLA 313 is raised.

The inbound delivery needs to be completed first by using transaction VL32N before posting goods receipt.

**How to Determine Relevancy**

The Simplification Item is relevant, if all these conditions apply together:

- The Business Function DIMP_SDUD is not active (check with transaction SFW2 or SFW_BROWSER)

- The indicator "Document Flow Update for stock postings and return delivery" is not set in the Global Shipping Data

Check table field TVSHP-SPE_INB_VL_MM via transaction SE16, or check the indicator using the following Customizing activity: SAP Customizing Implementation Guide: Logistics Execution > Shipping > Basic Shipping Functions > Configure Global Shipping Data
• Goods receipt postings or return delivery postings are done with reference to inbound deliveries using transaction MIGO

Check table MSEG for entries with VGART_MKPF = "WE", TCODE2_MKPF = MIGO_GR, VBELN_IM is not initial, and VBELP_IM is not initial

**Required and recommended action(s)**

Check the current business process for goods receipt processing whether affected or not by the stricter consistency checks applied. Change the business process by ensuring the inbound delivery contains the correct data prior to posting goods receipt, if applicable.

When the check item is relevant, there are two alternative options to proceed with the conversion to SAP S/4HANA:

1. Apply for an exemption for this check item
2. Set in all clients of the system the indicator "Document Flow Update for stock postings and return delivery" in the IMG activity “Configure Global Shipping Data” under “Logistics Execution > Shipping > Basic Shipping Functions”.

**Other Terms**

MIGO, Goods Receipt, Inbound Delivery, Automotive, ECC-DIMP, S/4HANA

**26.4 S4TWL - Change in default IDoc inbound processing with message type DESADV**

Application Components:IS-A-GR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2404011</td>
<td>S4TWL - Change in default configuration of IDoc inbound processing with message type DESADV</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

Reason: Conversion from SAP ERP to SAP S/4HANA.

Prerequisite: In SAP ERP, shipping notifications from suppliers are processed by inbound IDocs of message type DESADV using inbound process code DELS, and neither the industry solution for Automotive has been activated nor the SAP Service Parts Management solution has been implemented.

Solution

Description

In SAP S/4HANA, the default processing of shipping notifications via EDI using inbound IDocs to create inbound deliveries changed, to support in addition the integration to Extended Warehouse Management, processes from automotive industry and processes in Service Parts Management.

Business Process Related Information

When receiving an Advanced Shipping Notification (ASN) from a supplier by processing an inbound IDoc of message type DESADV with inbound process code DELS in SAP S/4HANA, by default the IDoc is now processed using function module /SPE/IDOC_INPUT_DESADV1 to create an inbound delivery.

Function module /SPE/IDOC_INPUT_DESADV1 supports Extended Inbound Delivery Processing used in automotive industry and in service parts management, including an integration to Extended Warehouse Management. For scenarios where those capabilities are not required, still function module IDOC_INPUT_DESADV1 is available.

How to Determine Relevancy

In SAP ERP, function module IDOC_INPUT_DESADV1 is assigned to inbound process code DELS.

Required and Recommended Action(s)

It is recommended to use the more extended function module /SPE/IDOC_INPUT_DESADV1, but function module IDOC_INPUT_DESADV1 is still supported.

Option 1: Continue with function module /SPE/IDOC_INPUT_DESADV1

In case of customer extension implementations in SAP ERP using the enhancements V55K0004, V55K0011, V55K0012 or V55K0013, refer to SAP Note 987150 for more...
details on how to move those enhancements to work with function module /SPE/IDOC_INPUT_DESADV1, if necessary.

Option 2: Continue using the previously used function module IDOC_INPUT_DESADV1

Call transaction WE42 for maintaining inbound process codes for IDoc processing. Select process code DELS and choose the details view. Exchange assigned function module /SPE/IDOC_INPUT_DESADV1 by function module IDOC_INPUT_DESADV1.

Other Terms

S/4HANA, inbound delivery, shipping notification, EDI, DESADV

26.5 S4TWL - DATA MODEL IN INVENTORY MANAGEMENT (MM-IM)

Application Components: MM-IM-GF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2206980</td>
<td>Material Inventory Management: change of data model in S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to install SAP S/4HANA and need additional information how to adjust your customer enhancements, modifications or own functionalities to the new, simplified data model of SAP S/4HANA Supply Chain (MM - Inventory Management).

You want to have information about what is different in SAP S/4HANA Supply Chain (MM - Inventory Management) compared to Suite on HANA MM-IM.

Reason and Prerequisites

You have customer enhancements, modifications or own functionalities in the area of inventory management (component MM-IM) which were built for SAP ERP 6.0.

You are using functionalities which behave different in SAP S/4HANA Supply Chain (MM - Inventory Management) compared to Suite on HANA.
The SAP ERP 6.0 stock inventory management data model consists of the two document tables MKPF for document header information and MSEG for document item data. Additionally there were aggregated actual stock quantity data stored in several tables. Some of these tables do also store material master data attributes like the tables MARC, MARD and MCHB. Such tables with material master data attributes as well as actual stock quantities will be named as hybrid tables in the following. In contrast there are also tables like MSSA containing only aggregated actual stock quantities for sales order stock. Such tables will be called in the following as replaced aggregation tables.

With S/4HANA this data model has been changed significantly. The new de-normalized table MATDOC has been introduced which contains the former header and item data of a material document as well as a lot of further attributes. Material document data will be stored in MATDOC only and not anymore in MKPF and MSEG. Additionally the aggregated actual stock quantities will not be persisted anymore in the hybrid or replaced aggregation tables. Instead, actual stock quantity data will be calculated on-the-fly from the new material document table MATDOC for which some of those additional special fields are used. Hence, with the new MM-IM data model the system will work on database level in an INSERT only mode without DB locks. Nevertheless, for stock decreasing processes there will be still ABAP locks to ensure stock consistency. A further advantage of the new MM-IM data model is the capability of simple and fast reporting because the most information is all in one place: MATDOC.

All below mentioned tables of the SAP ERP 6.0 product do still exist in S/4HANA as DDIC definition as well as database object and the hybrid tables will still be used to store the material master data attributes. For compatibility reasons there are Core Data Service (CDS) Views assigned as proxy objects to all those tables ensuring that each read access to one of the mentioned tables below still returns the data as before in SAP ERP 6.0. The CDS Views do the on-the-fly aggregation of actual stock quantities from the new MM-IM data model and join the master data attributes from the material master data table. Hence all customer coding reading data from those tables will work as before because each read access to one of the tables will get redirected in the database interface layer of NetWeaver to the assigned CDS view. Write accesses to those tables have to be adjusted.

The affected tables are:

<table>
<thead>
<tr>
<th>Table description</th>
<th>DDL Source of CDS View for redirect</th>
<th>View to read the content of the database table (w/o redirect to compatibility view)</th>
<th>View to read the master data attributes only</th>
</tr>
</thead>
</table>

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<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>NSDM_DDL</th>
<th>NSDM_MIG</th>
<th>V_MD</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKPF</td>
<td>Material document header</td>
<td>NSDM_DDL_MKPF</td>
<td>NSDM_MIG_MKPF</td>
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<td>MSEG</td>
<td>Material document item</td>
<td>NSDM_DDL_MSEG</td>
<td>NSDM_MIG_MSEG</td>
<td></td>
</tr>
<tr>
<td>MARC</td>
<td>Plant Data for Material</td>
<td>NSDM_DDL_MARC</td>
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<td>V_MARC_MD</td>
</tr>
<tr>
<td>MARD</td>
<td>Storage Location Data for Material</td>
<td>NSDM_DDL_MARD</td>
<td>NSDM_MIG_MARD</td>
<td>V_MARD_MD</td>
</tr>
<tr>
<td>MCHB</td>
<td>Batch stocks</td>
<td>NSDM_DDL_MCHB</td>
<td>NSDM_MIG_MCHB</td>
<td>V_MCHB_MD</td>
</tr>
<tr>
<td>MKOL</td>
<td>Special Stocks from Vendor</td>
<td>NSDM_DDL_MKOL</td>
<td>NSDM_MIG_MKOL</td>
<td>V_MKOL_MD</td>
</tr>
<tr>
<td>MSLB</td>
<td>Special Stocks with Vendor</td>
<td>NSDM_DDL_MSLB</td>
<td>NSDM_MIG_MSLB</td>
<td>V_MSLB_MD</td>
</tr>
<tr>
<td>MSKA</td>
<td>Sales Order Stock</td>
<td>NSDM_DDL_MSKA</td>
<td>NSDM_MIG_MSKA</td>
<td>V_MSKA_MD</td>
</tr>
<tr>
<td>MSSA</td>
<td>Total Customer Orders on Hand</td>
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<td>NSDM_MIG_MSSA</td>
<td></td>
</tr>
<tr>
<td>MSPR</td>
<td>Project Stock</td>
<td>NSDM_DDL_MSPR</td>
<td>NSDM_MIG_MSPR</td>
<td>V_MSPR_MD</td>
</tr>
<tr>
<td>MSSL</td>
<td>Total Special Stocks with Vendor</td>
<td>NSDM_DDL_MSSL</td>
<td>NSDM_MIG_MSSL</td>
<td></td>
</tr>
<tr>
<td>MSSQ</td>
<td>Project Stock Total</td>
<td>NSDM_DDL_MSSQ</td>
<td>NSDM_MIG_MSSQ</td>
<td>-</td>
</tr>
<tr>
<td>----------</td>
<td>---------------------</td>
<td>---------------</td>
<td>---------------</td>
<td>-----</td>
</tr>
<tr>
<td>MSKU</td>
<td>Special Stocks with Customer</td>
<td>NSDM_DDL_MSKU</td>
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<td>MSTE</td>
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<tr>
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<td>DIMP: Total Customer Stock</td>
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<td>DIMP: Customer stock with vendor - Total</td>
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</tr>
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<tr>
<td>--------</td>
<td>-------</td>
<td>------------</td>
<td>------------</td>
<td>---------</td>
</tr>
<tr>
<td></td>
<td>Sales Order Stock with Vendor - Total</td>
<td>MFS</td>
<td>MSFS</td>
<td></td>
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<tr>
<td>MSID</td>
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<td>NSDM_MIG_</td>
<td>MSID_MD</td>
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<tr>
<td></td>
<td>Vendor Stock with Vendor</td>
<td>MSID</td>
<td>MSID</td>
<td></td>
</tr>
<tr>
<td>MSIS</td>
<td>DIMP:</td>
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<td>NSDM_MIG_</td>
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<tr>
<td></td>
<td>Vendor Stock with Vendor - Total</td>
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<td>Project Stock with Vendor</td>
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<tr>
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<td>Project Stock with Vendor - Total</td>
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<td>History</td>
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<tr>
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<td>MSPRH</td>
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<tr>
<td></td>
<td>History</td>
<td>MSPRH</td>
<td>MSPRH</td>
<td></td>
</tr>
</tbody>
</table>
The hybrid tables of the former Industry Solution DIMP have now new tables containing the material master data only. The name of the new tables is presented in the right column of above table.

According to the fact that data will not persisted anymore in the header and item tables MKPF and MSEG the transaction DB15 behaves differently in the environment of archiving.

Transaction DB15, which allows the retrieval of statistical data for DB tables grouped by the archiving objects that refer to these tables, does not provide correct information for tables MKPF and MSEG. When selecting tables from which data is archived for archiving object MM_MATBEL, and navigating to “Online Space” or “Space Statistics” for tables MKPF or MSEG, the statistics “No. Records” and “Table Space” are shown in the result screen. These numbers are taken from the original tables MKPF and MSEG, and not calculated by redirecting the request to table MATDOC. Consequently, when executing archiving for arching object MM_MATBEL, this will have no effect on the numbers shown for tables MKPF and MSEG in transaction DB15.

Some of the hybrid tables contain a field with the semantic "date of last change" (in many cases field name is LAEDA). In the ERP solution this field has been updated with each material document posting. With the introduction of the new data model in S/4 the hybrid tables will not be updated with actual stock data anymore and also the field LAEDA will not be updated. Hence, the semantic of this field for the material master data hybrid tables changes to "date of last change of master data".

Solution
One impact of the simplified MM-IM data model does exist if there are customer APPENDs or INCLUDEs with customer fields on the mentioned tables. The NetWeaver redirect capability requires that DB table and assigned proxy view is compatible in the structure: number of fields, their sequence and their type. Thus if there is an APPEND or INCLUDE on one of the above mentioned tables then the assigned DDL source of the CDS view must be made compatible. In some cases for S/4HANA on-premise 1511 this does not require customer interaction especially in those cases where the append has been put at the end of a table which is strongly recommended (not somewhere in between which may happen if a table is composed by include structures like for MARC). For other cases and in general for S/4HANA on-premise 1610 the structure of the proxy view can be made compatible to the table by extension view. This extension view is always an extension to the above mentioned view in the DDL source of the CDS view used for redirect. In the extension view the fields have to be listed in exactly the same order as in the append. For more information about view extension see e.g. SAP NetWeaver 7.4 documentation.

Another impact of the simplified MM-IM data model is a performance decrease of DB read operations on the above mentioned tables just because a data fetch on one of the mentioned tables is in S/4HANA slower than in SAP ERP 6.0 due to the on-the-fly aggregation and the JOIN operation. Hence performance critical customer coding may be adjusted to improve performance. Furthermore customer coding writing data to aggregated actual stock quantity or to the former document header or item table shall be adjusted!

1. Customer Appends
With SAP Note 2194618 and 2197392 SAP offers a check to be executed on the start release to identify APPEND issues described in the following sub chapters. Hence customer is not forced to scan all above listed tables manually.

1.1 Customer Appends on the former document tables MKPF and MSEG
If there are APPENDs on MKPF and MSEG where fields with the same fieldname do exist then there is a name conflict in case that the content of field MKPF-A is different from field MSEG-A (fields with same name and identical content do exist on MKPF and MSEG also in SAP Standard for performance reasons e.g. BUDAT). In this case it is required to add a further field A_NEW to the append, copy the data from A to A_NEW with a special customer program and then all coding sections, Dynpros, etc. need to be adjusted to use A_NEW and then field A needs to be dropped from the append. This must be done before migration from ERP 6.0 to S/4HANA.

If the attributes in the APPENDs or INCLUDEs (e.g. CI_M* INCLUDEs as introduced with consulting note 906314) on table MKPF and MSEG do have a master data or process controlling character then the fields from the APPENDs/INCLUDEs need to be appended to the table MATDOC and the assigned proxy views can be made compatible via extension views.
In case of a system conversion all these customer fields in such APPENDs or INCLUDEs need to be appended to table MATDOC during the ACT_UPG phase (SPDD). It has to be done in any case before the MM-IM conversion program will be executed which move the data from MKPF and MSEG to MATDOC otherwise data in customer fields gets lost. The structure compatibility between table MKPF/MSEG and their assigned proxy view shall be created directly after system conversion by creating extend views, see note 2242679.

Fields from APPENDs/INCLUDEs to table MKPF should be appended to sub structure NSDM_S_HEADER of table MATDOC.

Fields from APPENDs/INCLUDEs to table MSEG should be appended to sub structure NSDM_S_ITEM of table MATDOC.

1.1.1 Customer include CI_COBL in table MSEG

Table MSEG contains the customer include CI_COBL where customers can insert own fields. The CI_COBL include has been made available also in the new MM-IM data model with note 2240878. This note must be applied before the data migration starts in the ACT_UPG phase (SPDD); otherwise you may lose data. With the implemented CI_COBL the table MSEG and its assigned proxy view is not compatible in their structure anymore. The structural compatibility can be re-created by applying note 2242679. This must be done directly after system conversion has been finished.

If you later on like to make use of one of the fields in EXTEND VIEW for CI_COBL in the app "Custom fields and logic" then you need to follow the instructions given in this article in the SAP Help portal. Basically you need to remove the field from the EXTEND VIEW for CI_COBL, save without activate and then add the field in the app "Custom fields and logic". This is valid for release 1709 and higher.

1.2 Customer Appends on the hybrid and replaced aggregation tables

1.2.1 Fields containing material master data attributes

If the append is not at the end of the hybrid table then the append should be moved to the end if possible and then no further action is required because the delivered DDL sources for the proxy views provide the $EXTENSION feature within S/4HANA on-premise 1511. Due to too many side effects like unpredictable sequence of fields from APPENDs, this has been changed with S/4HANA On-Premise 1610 where always an EXTEND VIEW for a CDS proxy view has to be created for an APPEND on a material master data table. For the DIMP tables the append has to be appended also to the new pure DIMP material master data tables. The structural compatibility between table and CDS proxy view can be re-created by applying note 2242679. This must be done directly after system conversion has been finished (e.g. creating just an EXTEND VIEW with the customer fields using ABAP Development Tools for S/4HANA On Premise 1610 and higher).

For replaced aggregation tables appends with master data attributes are not supported. If such appends are really required in the customer processes then the approach described in
the next chapter maybe feasible. In the core functionality of material document processing there will be no write process on these tables. Thus update of the fields in the appends requires maybe some additional customer coding.

1.2.2 Fields representing a customer defined stock type or quantity/value to be aggregated

If own stock types or a dimension which needs to be aggregated have been introduced by the customer then the view stack of the CDS view assigned to the table with the additional stock type needs to be modified. Right now, there is no technology support for modification free enhancement. If the stock type has not been introduced by new entries or enhancements in the tables T156x (T156, T156SY, T156M, T156F) - which controls in the core functionality the mapping between a posting and a stock type - then the process logic needs to be adapted.

1.3 Customer Appends on views

There are several views in SAP Standard which also do have an assigned proxy view because the view provide actual stock quantity data. View and assigned proxy view must be compatible in structure too. If there are customer appends on such view the same rules as for tables apply. Views with assigned proxy compatibility view can be determined by searching via transaction SE16N in table DD02L with TABCLASS = VIEW and VIEWREF <> '' or you may use above mentioned check functionality in your start release.

1.3.1 Customer views on MKPF/MSEG

Views are database objects and thus a view is executed on the database. Because the table MKPF and MSEG will not contain data anymore (except legacy data from migration) such a customer view will never return any record. Such views have to be either adjusted by fetching data from table MATDOC or to be created new as DDL source with a different name. In the last case all usages of the old DDIC SQL view must be replaced by the new CDS view.

1.3.2 Customer views on material master attributes

Such views using only material master data attributes from the hybrid tables do not need to be changed.

1.3.3 Customer views using aggregated stock quantity data

Customer views having at least one actual stock quantity aggregate cannot be used anymore because

- the field representing this aggregate on the database will be empty forever
- the quantity must be aggregated from table MATDOC which is not possible with DDIC SQL views.
Such views must be defined new as DDL source with a new name. Each of the above mentioned DDL sources can be used as template. All usages of the old DDIC SQL view must be replaced by the new CDS view.

2 Code adjustments and optimizations

Technically it is still possible to do DB write operations (INSERT, UPDATE, DELETE, MODIFY) on the tables MKPF, MSEG as well as the fields representing actual stock quantities in the hybrid and replaced aggregation tables. But such write operations are without any effect! Therefore write operations on MKPF, MSEG as well as the fields representing actual stock quantities in the hybrid and replaced aggregation tables shall be removed from customer coding. Write operations on the material master data attributes in the hybrid tables are still possible. Write operations on table MATDOC and your moved customer append fields are done by class CL_NSDM_STOCK.

DB read operations on the hybrid and replaced aggregation tables have a performance decrease. In general, it shall be avoided to read any stock quantities when only master data is required. Therefore it is recommended to adjust the customer coding in the following way:

- If material master data as well as actual stock quantity data are required then the SELECT....<table> should be replaced by using a data access method from class CL_NSDM_SELECT_<table>. These classes provide access methods for single as well as array read operations. Those access methods shall not be used if the KEY table contains more than 1000 records to to limitations of the SELECT.....FOR ALL ENTRIES.
- If material master data are required then the SELECT....<table> should be replaced by SELECT....V_<table>_MD where V_<table>_MD is one of the above mentioned views for master data access. Alternatively corresponding material master data read methods in the class CL_NSDM_SELECT_<table> can be used (those access methods shall not be used if the KEY table contains more than 1000 records to to limitations of the SELECT.....FOR ALL ENTRIES.). Also the data type declarations should be adjusted from TYPE...<table> to TYPE...V_<table>_MD.
- If actual stock quantity data are required then the SELECT....<table> should be replaced by SELECT....NSDM_V_<table>_DIFF where NSDM_V_<table>_DIFF is one of the views in the view stack of the above mentioned proxy view. Also the data type declarations should be adjusted from TYPE...<table> to TYPE...NSDM_V_<table>_DIFF.
- For table MARC and field STAWN valid from S/4HANA On Premise 1610 please read note #mce_temp_url# For performance critical coding parts these adjustments are strongly recommended. For non critical parts it is optional short term but recommended on long term.
To identify such locations, it is required to make use of the where-used functionality of transaction SE11 and considering other techniques like transaction CODE_SCANNER to find locations which SE11 cannot handle – like dynamic programming or native SQL statements.

Consider SAP Note 28022 if there are issues with the where-used functionality in the customer system. In the where-used dialog it is possible via the button “Search Range” to search specific for key words like SELECT, INSERT and so on.

Other Terms

S4TC, S/4 transition, MM-IM, Material Management

### 26.6 S4TWL - AVAILABILITY OF TRANSACTIONS IN MM-IM

Application Components: MM-IM-GF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2210569</td>
<td>Obsolete Material inventory management transactions</td>
</tr>
</tbody>
</table>

Symptom

The following transactions for entering and displaying goods movements (material documents) - called "MB transactions" - below, have been replaced by the single-screen generalized transaction MIGO or the BAPI's BAPI_GOODSMVT_CREATE and BAPI_GOODSMVT_CANCEL:

- MB01, MB02, MB03, MB04, MB05, MB0A, MB11, MB1A, MB1B, MB1C, MB31, MBNL, MBRL, MBSF, MBSL, MBST, MBSU and MBBM

The transaction MMBE_OLD has been replaced by transaction MMBE. Alternatively there is also the Fiori App Stock Overview

These transaction do still exist as transaction codes but calling these transaction codes from the menu has the consequence that an error message is raised.

These transaction codes shall not be used in customer coding especially with S/4HANA OP1610 and higher because with this release a new enhanced and improved lock concept has been introduced for transaction MIGO and the BAPI BAPI_GOODSMVT_CREATE but the above listed obsolete transactions still using the old lock concept (see note 2319579). Hence in case of parralel posting done via one of the obsolete transactions and transaction MIGO or BAPI BAPI_GOODSMVT_CREATE you may be able to create stock inconsistencies just because the postings are not protected by the same lock object.
The transaction codes will be deprecated in the near future.

**Reason and Prerequisites**

Transaction were already outdated in SAP ERP 6.0x.

**Solution**

Use transaction MIGO or MMBE in dialog.

Replace customer coding using the transaction codes MB01, MB04, MB05, MB0A, MB11, MB1A, MB1B, MB1C, MB31, MBNL, MBRL, MBSF, MBSL and MBSU (e.g. by using CALL TRANSACTION MBxy) by make use of function module BAPI_GOODSMVT_CREATE

Replace customer coding using the transactions MB02 and MB03 by making use of function module MIGO_DIALOG

Replace customer coding using the transaction MBST by making use of function module BAPI_GOODSMVT_CANCEL

**Other Terms**

MIGO_GR, MIGO_GI, MIGO_ST, BAPI_GOODSMVT_CANCEL, NSDM_MESSAGES499, NSDM_MESSAGES-499, omcq; MMBE

### 26.7 S4TWL - Material Ledger Obligatory for Material Valuation

**Application Components:** MM-IM-GF-VAL

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267834</td>
<td>S4TWL - Material Ledger Obligatory for Material Valuation</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

This simplification makes it mandatory to use the Material Ledger (ML) in all SAP S/4HANA systems. After the technical SUM migration, the Material Ledger needs to be migrated.

Relevant IMG migration activities:

- **Customizing migration:**
  - from SAP ERP or SAP Simple Finance to SAP S/4HANA 1511:
    transaction: SPRO -- Migration from SAP ERP Accounting powered by SAP HANA -- Preparations and Migration of Customizing -- Migrate Material Ledger Customizing
  - from SAP ERP or SAP Simple Finance to SAP S/4HANA 1610 or higher:
    transaction: SPRO -- Migration to SAP S/4HANA Finance -- Preparations and Migration of Customizing -- Migrate Material Ledger Customizing

- **Data migration:**
  - from SAP ERP or SAP Simple Finance to SAP S/4HANA 1511:
    transaction: SPRO -- Migration from SAP ERP Accounting powered by SAP HANA -- Material Ledger Migration
  - from SAP ERP or SAP Simple Finance to SAP S/4HANA 1610 or higher:
    transaction: SPRO -- Migration to SAP S/4HANA Finance -- Data Migration -- Start and Monitor Data Migration

You need to migrate the Material Ledger even if you are already using SAP Simple Finance (that is, you are migrating from SAP Simple Finance to SAP S/4 HANA Inventory Management). In addition, you need to migrate the Material Ledger even if you are already using the Material Ledger in your source system. If you performing an upgrade from S/4HANA 1511 to S/4HANA 1610 or higher, no manual IMG Material Ledger data migration is necessary.

Latest trends in material management aim for improved and more flexible valuation methods in multiple currencies and parallel accounting standards while simultaneously reducing required system resources and improving scalability of the business processes. Since the data model of the Material Ledger module supports these business requirements, it was chosen as the basis for material inventory valuation in the new SAP S/4HANA solution.

It is very important to distinguish between Material Ledger, in its role as an inventory subledger in Accounting, and the business feature Actual Costing. Material Ledger, as the
inventory subledger, values material inventories in multiple currencies and GAAPs in parallel. In addition Material Ledger is a basic prerequisite for the use of Actual Costing. With Actual Costing you can value your material inventories, work in process, and cost of goods sold with weighted average unit costs that are being calculated after the fact by evaluating business transactions of one or more posting periods. Actual Costing also provides additional features, such as actual cost component splits.

Even though activation of Material Ledger is now mandatory, activation of Actual Costing is still optional.

Before S/4HANA, the inventory valuation tables xBEW(H) - tables: EBEW, EBEWH, MBEW, MBEWH, OBEW, OBEWH, QBEW, QBEWH - contain transactional as well as master data attributes.

With S/4HANA, the inventory valuation tables do still exist as DDIC definitions as well as database objects. However, they will only be used to store material master data attributes. The transactional fields LBKUM, SALK3 and SALKV will be retrieved from the Material Ledger. (From S/4HANA 1610 these transactional fields will be retrieved from the Universal Journal Entry Line Items table ACDOCA and the Material Ledger table. For more detailed information please see SAP Note: 2337383). Hence, those fields are not updated anymore in the original xBEW(H) tables. As a consequence, the above mentioned tables need to be updated less often, which leads to a higher throughput due to fewer database locks.

For compatibility reasons there are Core Data Service (CDS) Views assigned as proxy objects to all those tables ensuring that each read access to one of the mentioned tables still returns the data as before. The CDS views consist of database joins in order to retrieve both master data from the original xBEW(H) table and transactional data from Material Ledger tables. (From S/4HANA 1610 transactional data from the Universal Journal Entry Line Items table ACDOCA and the Material Ledger table. For more detailed information please see SAP Note: 2337383).

Hence all customer coding, reading data from those tables, will work as before because each read access to one of the tables will get redirected in the database interface layer of NetWeaver to the assigned CDS view. Write accesses to those tables have to be adjusted if transactional fields are affected.

The following table gives an overview of the new relevant database objects in the S/4HANA Inventory Valuation data model:

<table>
<thead>
<tr>
<th>Table</th>
<th>Table description</th>
<th>DDL source of CDS view for redirect (proxy view)</th>
<th>View to read the content of the original database table (w/o redirect to proxy view)</th>
<th>View to read master data attributes only</th>
</tr>
</thead>
<tbody>
<tr>
<td>EBEW</td>
<td>Sales Order Stock Valuation</td>
<td>MBV_EBEW</td>
<td>MBVEBEWOLD</td>
<td>V_EBEW_MD</td>
</tr>
<tr>
<td>EBEWH</td>
<td>History of Sales Order Stock Valuation</td>
<td>MBV_EBEWH</td>
<td>MBVEBEWHOLD</td>
<td>V_EBEWH_MD</td>
</tr>
<tr>
<td>MBEW</td>
<td>Material Valuation</td>
<td>MBV_MBEW</td>
<td>MBVMBEWOLD</td>
<td>V_MBEW_MD</td>
</tr>
<tr>
<td>MBEWH</td>
<td>History of Material Valuation</td>
<td>MBV_MBEWH</td>
<td>MBVMBEWOLD</td>
<td>V_MBEWH_MD</td>
</tr>
<tr>
<td>OBEW</td>
<td>Valuated Stock with Subcontractor (Japan)</td>
<td>MBV_OBEW</td>
<td>MBVOBEWOLD</td>
<td>V_OBEW_MD</td>
</tr>
<tr>
<td>OBEWH</td>
<td>History of Valuated Stock with Subcontractor (Japan)</td>
<td>MBV_OBEWH</td>
<td>MBVOBEWOLD</td>
<td>V_OBEWH_MD</td>
</tr>
<tr>
<td>QBEW</td>
<td>Project Stock Valuation</td>
<td>MBV_QBEW</td>
<td>MBVQBEWOLD</td>
<td>V_QBEW_MD</td>
</tr>
<tr>
<td>QBEWH</td>
<td>History of Project Stock Valuation</td>
<td>MBV_QBEWH</td>
<td>MBVQBEWOLD</td>
<td>V_QBEWH_MD</td>
</tr>
</tbody>
</table>

**Table 1:** Affected tables with information about corresponding proxy objects, views for accessing original database table and views for reading master data only

**Business Process related information**

If customers are not already using the material ledger, it will be activated during the conversion process. In MM02 and MR21 material prices can now be maintained in multiple currencies. In Financials the inventory account balances are calculated separately for each currency and result therefore in a cleaner and more consistent valuation in other currencies than the local currency.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | MMPI: Initialize period for material master records (Not available with activated Material Ledger) |

**Required and Recommended Action(s)**

Perform Conversion Pre-Checks on start release to identify start situation
Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>SAP Note: 2194618</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Code related information</td>
<td>SAP Notes: 1804812</td>
</tr>
</tbody>
</table>

26.8 S4TWL - Material Valuation - Statistical moving average price

Application Components: MM-IM-GF-LOCK, MM-IM-GF-VAL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267835</td>
<td>S4TWL - Material Valuation - Statistical moving average price</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

One major innovation of SAP S/4HANA in the area of MM-IM is the significant increase of transactional data throughput for high-volume transactions, especially goods movements. To enable this from a technical point of view, it is necessary for the application logic to avoid exclusive locking on the application layer.

For goods movements changing the valuated inventory, the system uses exclusive locks to calculate a consistent change in inventory value in situations where concurrent transactions for the same material are ongoing. But, the need for setting exclusive locks is mainly driven by the inventory valuation method:

- An inventory valuation following the "Standard Price" method does (with a few exceptions) not require to set an exclusive lock. This is because the relationship between unit costs for material inventory (standard price) on the one hand, and inventory quantity and inventory value on the other hand, is kept constant during goods movements.
- Whereas an inventory valuation following the "Moving Average Price" method often requires to set an exclusive lock. This is because the relationship between unit costs for material inventory (moving average price) on the one hand, and
inventory quantity and inventory value on the other hand, is often changing
during goods movements.

In SAP ERP, for materials with price control "Standard" the system calculates the
inventory valuation following the "Standard Price" method mentioned above, 
Additionally, it does an inventory valuation following the "Moving Average Price"
method in parallel, the so-called "statistical" moving average price. Unfortunately, this
"statistical" moving average price valuation requires exclusive locking as well.

As mentioned at the beginning, exclusive locking limits the transactional data throughput,
and therefore needs to be avoided to increase transactional data throughput
significantly for scenarios with a high volume of transactions.

If you do a system conversion to SAP S/4HANA on-premise edition, you have the **option**
to change locking behavior during goods movements to increase transactional data
throughput. As said, this is not mandatory for you, but nevertheless recommended in
order to achieve a significant increase of transactional data throughput for goods
movements.

**If you select option** to increase your transactional data throughput during goods
movements, this will have following effects:

- Materials with price control 'S': System will set (with a few exceptions) only a
  shared lock during goods movements.
- Materials with price control 'V': System will set an exclusive lock during goods
  movements in release SAP S/4HANA 1511. Beginning with release SAP
  S/4HANA 1610, system will set an exclusive lock during goods movements only
  in dedicated situations, for other situations it sets only a shared lock (see OSS
  note 2338387 for details).
- As described before, setting only a shared lock for materials with price control 'S'
  is in conflict with concept of calculating "statistical" moving average price, which
  would require an exclusive lock. Therefore, to gain the increase of transactional
data throughput, **system deactivates "statistical" moving average price and
does not calculate it anymore.**
- In addition, the following database table fields are affected by the deactivation of
  the "statistical" moving average price:
  - In table MBEW, EBEW, OBEW, QBEW the fields SALKV and VERPR
    are not updated anymore for materials with price control “Standard”. The
    same applies to the history tables MBEWH, EBEWH, OBEWH and
    QBEWH.
  - In table CKMLCR the fields PVPRS and SALKV are not updated
    anymore for materials with price control “Standard”.
  - In table MLCR the fields SALKV, SALKV_OLD and PVPRS_OLD are
    not updated anymore for materials with price control “Standard”.

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If Actual Costing is used, the above mentioned fields will still be updated with the periodic unit price during the Actual Costing Closing Steps.

- As a consequence of not updating the above-mentioned fields, the "statistical" moving average price and the value based on the "statistical" moving average price are no longer available on the user interface. This concerns the following transaction codes: MM01, MM02, MM03, CKM3 and MR21.
- It is important to note that selecting this option **can not be un-done**.

**If you do not select option** to increase your transactional data throughput during goods movements, this will have following effects:

- Locking behaviour during goods movements is the same you know from SAP ERP. Means, exclusive locks are set during goods movements and transactional data throughput is limited.
- Materials with price control 'S': **system still calculates "statistical" moving average price** in parallel.

**Business Process related information**

As its name implies, the "statistical" moving average price is purely statistical and does not have any impact on actual financials-relevant valuation.

Without the "statistical" moving average price, an alternative way of valuation needs to be used in few scenarios. This concerns, for instance, Balance Sheet Valuation and Product Cost Planning, where selection/valuation variants must be checked and adapted.

**Required and Recommended Action(s)**

If within custom code the fields mentioned above under “Description” are evaluated for materials with price control “Standard”, then this usage should be removed. One possible reaction to this change could be to use instead of the V-Price (VERPR) either the S-Price (STPRS) or the V-Price (VERPR) depending on the configured price control for the respective material.

To identify such locations, it is required to make use of the where-used functionality of transaction code SE11 and to consider other techniques like transaction code CODE_SCANNER to find locations which SE11 cannot handle – such as dynamic programming or native SQL statements.
Finally, if you like to select option to increase your transactional data throughput during goods movements and you accept the drawback that "statistical" moving average price gets deactivated, you can do the following:

- In SAP S/4HANA 1511 and SAP S/4HANA 1610 execute report SAPRCKM_NO_EXCLUSIVELY_LOCKING. As changes in customizing table TCURM are not recorded in a customizing request, you have to run report in each of your systems (customizing, development, production) separately.

As said, this is optional for converted systems running the S/4HANA on-premise edition.

**Further Remarks**

In the S/4HANA cloud edition or new installs of the SAP S/4HANA on-premise edition, the option to increase transactional data throughput during goods movements is mandatory and being set automatically. Deactivation of "statistical" moving average price is therefore also mandatory there.

### 26.9 S4TWL - Performance optimizations within Material Document Processing - lock beh

Application Components: MM-IM, MM-IM-GF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2319579</td>
<td>S4TWL - Performance optimizations within Material Document Processing - lock behavior and stock underrun protection</td>
</tr>
</tbody>
</table>

**Symptom**

1. **General**

With the introduction of the new MM-IM data model there are opportunities and drawbacks. The opportunities will offer new process modes whereas the drawbacks require changes of the process behavior. Both will have effects on follow-on processes or side processes.
2. Opportunities

2.1 Locks to protect stock

With the introduction of the new MM-IM data model in S/4HANA OP1511 there are no UPDATE processes on the actual stock quantity fields in the material master and stock aggregate tables anymore. Instead of the UPDATEs only INSERTs into the new material document table will be done. Hence from a data base perspective there are no locks anymore on DB level. That enables - from a DB perspective - parallel execution of material document processing. Anyway, from a business perspective there are still logical locks required because

1. Consistency with material master data (i.e. prevent parallel change of master data attributes). This can be ensured already with a shared logical lock because with such a lock a change of material master is protected.
2. Defined sequence of material documents (e.g. for moving average price).
3. Consistency with stock quantity (check availability if negative stock is not allowed).

The consistency with master data and with stock quantity (1 + 3) is necessary in any case. The defined sequence of material documents (2) is ensured only in the case that exclusive lock is chosen in the customizing. Regarding the lock of materials to enable a consistent quantity check (lock reason 3) there are currently two different kinds of lock strategies: early exclusive quantity lock and late exclusive quantity lock.

2.2 Early lock strategy

In the early exclusive lock strategy, all material master data and quantities are read in an array fetch before the item processing (except for special stocks) and exclusive locks are set during the entire processing of the material document. As this implies that valid quantities are read from the buffer, this option has the best performance regarding process runtime, but on the other hand it has a worst performance regarding process throughput in scenarios with many equal material items in parallel processes.

2.3 Late lock strategy

In the late exclusive lock strategy, the material master data and quantities are read also in an array fetch before the item processing but no exclusive locks are set. An exclusive lock will be set only for a short period of time during the item processing for each specific item. This exclusive lock will be converted into a shared lock after checks for stock underrun.

As the new MM-IM data model changes the old key figure model to an account model this enables a more finer granular locking for the late quantity lock case starting with S/4HANA OP1610 and CE1608. For the key figure model the locks have been set on
material and plant level in S/4HANA OP1511. With the account model the locks can be set on material, plant, storage location, stock identifier, special stock identifier level (in principle what defines the stock in the new model) starting with S/4HANA OP1610 and CE1608. Hence, even in parallel processes the probability for a lock collision is rather likely. Furthermore, by changing the sequence of sub-process steps under the hood of the exclusive look in the late lock strategy the duration of this exclusive lock can be shortened.

With S/4HANA OP1610 and CE1608 a further option to increase throughput will be introduced. This is the option to define in the customizing that, for the late lock strategy, no exclusive lock shall be set. In this case only late shared locks will be set which really enables parallel material document processing (stock underrun checks are still possible because in this case all processes communicate their withdrawals to the lock server who in this case serves as second storage for stock changes (first storage is the DB) and the calculation operates on data from the first and the second storage).

2.4. Locks on batches

Locks on batch materials will be set in the current process to protect parallel changes of the batch master. In S/4HANA OP1511 those locks will be set without any conditions, means they will be set even if the material document posting does not change any of the batch master data. Starting with S/4HANA OP1610 and CE1608, to reduce the collision rate of parallel material document postings for batch material line items those batch locks will be set only if the batch master data like production date or best before date are entered during the MM-IM document processing and these data differ from the data on the DB.

3. Overcome drawbacks

With the introduction of the new MM-IM data model for S/4HANA OP1511 the material stock quantity data are not stored anymore as pre aggregated data in the old hybrid (containing material master and material actual stock quantity data) or aggregate (containing only material actual stock quantity data) tables. Instead the material stock quantity data will be calculated on-the-fly from the material document table. For applications this is transparent because the calculation of stock data as well as the determination of the material master data will be done via CDS-compatibility views which are assigned as proxy objects to those tables with hybrid or aggregate character and each fetch to the tables get redirected in the DBI layer to the assigned proxy view. According to the on-the-fly calculation, read accesses to those hybrid and aggregate tables are much slower than in Suite on HANA where the aggregated quantity changes have been stored in these tables as actual stock quantity data.

During material document processing, material data is read from the database in general in an array fetch at the beginning of the processing. A second access to the database to read material data will be done in case of the late exclusive lock during the item
processing. In both cases – due to the compatibility view – the material master as well as the material stock quantity data will be read whereas in the prefetch only the master data is required and during the late exclusive lock phase only the material stock quantity data is required.

To turn the drawback of on-the-fly calculation into an advantage the following will be introduced with S/4HANA OP1610 and CE1608:

- during the prefetch phase only the material master data will be read into internal buffers by using the pure material master data views to retrieve the data from DB
- during the item processing the stock quantity data will be read in the account model from the data base, and this will be done only in case of stock decreasing processes where negative stocks are prohibited

Because it is known that HANA can process a single array fetch faster than many single fetches, the stock quantity read and stock underrun check mentioned in the last bullet point can also be done outside of the item processing. This array operation, which does also the lock operation, is executed directly in the function module MB_CREATE_GOODS_MOVEMENT after the item processing therein has been finished. The decision whether the read and check operations are done during or after item processing is done at the beginning of the processing. The new BAdI BADI_NSDM_READ_STOCK can be used by customers to overrule the decision.

This changes to turn the drawbacks have been done irrespective of the lock strategy. It is effective in early as well as late lock strategy.

Hence for S/4HANA OP1610 and CE1608, the adaptation done for the late lock strategy allows parallel execution of material document processes whereas the stock quantity read from DB and stock underrun check reduces the processing time of a single material document process. Overall it increases the performance of material document processing in S/4HANA OP1610 and CE1608 compared to S/4HANA OP1511 and Suite on HANA.

4. Permission of negative stocks

It is possible to allow on plant level negative stocks. Also on storage location level negative stocks can be permitted. And for the material itself a negative stock can be enabled. All this was possible to configure already in S/4HANA OP1511 and also in Suite on HANA. If on all 3 level the permission on negative stock has been granted then in S/4HANA OP1610 and CE1608

1. no locks at all will be set in the late lock strategy case.
2. no stock determination from the data base will be done and no stock underrun check will be executed (in both lock strategies).
Hence for such a configuration and setting of material master data the runtime and the throughput may increase further.

5. Business process related information

5.1 Modifications in the coding of Material Document Processing

As already described in the Overcome Drawback section, stock quantity data will be read and calculated only for stock decreasing processes where negative stocks are prohibited. And this will be done, if necessary, in the new account model. Hence, the actual stock quantity fields in the internal tables XMabc tables used and routed internally are always zero and cannot be used for any subsequent calculation incorporated in the material document processing. There is no option to populate these actual stock quantity fields in the internal tables XMabc tables anymore! Thus, customer coding modifications using stock quantity data from those XMabc internal tables must be adjusted. Stock change information is available via it_stock_change = cl_nsdm_mmim_read_stock=>get_instance( ) ->get_stock_change_for_bte( ).

5.2 Logistics Information System (LIS)

LIS processing during any document processing means that document data will be prepared (transformed) into LIS structures and those data will be finally written into so called LIS information structures. Customers can enrich those data structures as well as define their own information structures. LIS processing means that the document processing time gets enlarged, increases significantly the memory footprint due to the LIS information structures and forces (at least for MM-IM) a serialized processing in case of V1 mode. Data in those LIS information structures will be used for special reporting by customers.

A forced serialization of MM-IM document processing due to active LIS and a customizing of late lock strategy to enable parallel processing for MM-IM does not make sense at all. Furthermore several LIS key figures like # of times a zero stock would be reached by a posting, cannot be determined reliable in parallel processes. Hence, active LIS and late lock mode is defined now as an inconsistent system state starting with S/4HANA OP1610 and CE1608!

Furthermore, because several fields in internal structures (exactly those stock quantity fields of the former key figure model like field LABST in the internal structure XMARD) are not populated with data anymore with the active optimization, absolut stock quantities can not be send via the INVCON0x IDOC (message type INVCON).

If an On-Premise system is configured for early lock strategy then LIS and the INVCON message type can be used. In this case the processing will be internally switched into the legacy mode. That means that none of the above described optimizations will be
executed. This is necessary just because the optimized coding does not fill the internal XMabc tables with stock data in the key figure model anymore (just because in many cases stock data are not calculated at all) and the data in those internal tables are required for LIS processing and the INVCON message type.

**Reason and Prerequisites**

Introduction of new MM-IM data model enables improvements in lock behavior and reduction of processing time and increase of throughput.

**Solution**

**Switching the lock strategies**

The toggling between early lock and late lock strategy can be done via customizing transaction OMJI. Marking the flag "Exclusive block" means early lock strategy whereas marking "Late exclusive block" means late lock strategy. Toggling of these two lock modes is possible. The setting of "no exclusive lock" for the late lock strategy has to be done by executing program SAPRCKM_NO_EXCLUSIVELY_LOCKING. This change can not be undone. For this setting please refer especially to note 2267835.

The strategy late lock/non-exclusive seems to be a good strategy if - by business means - it is ensured that goods receipt postings are always be processed before goods issue or transfer postings are done.

**LIS**

LIS settings can be done by executing the customizing transaction OMO9 and LBW1 but only for application "Inventory Controlling"). LIS update processing is only possible for early lock strategy. For late lock strategies LIS has to be deactivated by setting "No updating" for all LIS info structures (in transaction OMO9 or LBW1 (application "Inventory Controlling) do a double click on an info structure; the Parameters dialog box appears and in this dialog mark "No updating"; do that for each info structure). Toggling on/off of LIS is not that easy as for the lock strategies. Toggling LIS from off to on requires the re-generation of the content of the LIS info structures.

**Permission of negative stocks**

At first the permission has to be granted on plant level. Go to SAP IMG --> Materials Management --> Inventory Management and Physical Inventory --> Plant Parameters. Here you can grant negative stocks on special stock types.

At second the permission has to be granted on storage location level. Go to SAP IMG (or use customizing transaction OMJ1) --> Materials Management --> Inventory Management and Physical Inventory --> Goods Issue / Transfer Postings --> Allow
negative stocks. Here you can grant negative stocks for storage locations in a plant assigned to a valuation area.

At third the permission has to be granted for the material itself. Execute material maintenance (e.g. transaction MM02) and enter the tab "Plant data / stor. 2". Mark flag "Neg. stocks in plant"

**Customer modifications**

Real modification of SAP coding by customers in the area of function group MBWL or the MIGO main program SAPMM07M and its includes using stock aggregate data from the internal tables XMabc must be refactored. Implemented BAdI methods are not affected by this.

**Other Terms**

MM-IM; BAPI_GOODSMVT_CREATE; MB_CREATE_GOODS_MOVEMENT; MIGO; Performance; Locks; LIS; INVCON; APO

**26.10S4TWL - Material Valuation Data Model Simplification in S/4HANA 1610 and Higher**

Application Components:MM-IM-GF-VAL

**Symptom**

You are doing an upgrade from SAP S/4HANA 1511 to SAP S/4HANA 1610. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

If you upgrade from SAP S/4HANA 1511 to SAP S/4HANA 1610, the Material Ledger (ML) functionalities will be changed for simplification.
The impacts on the inventory valuation tables \( \text{xBEW(H)} \) - tables: EBEW, EBEWH, MBEW, MBEWH, OBEW, OBEWH, QBEW, QBEWH - are described in the following:

The transactional fields LBKUM, SALK3 and VKSAL will be retrieved from the Universal Journal Entry Line Items table (ACDOCA) with on-the-fly aggregation. And the transactional field SALKV will be retrieved from the Material Ledger table.

For compatibility reasons there are Core Data Service (CDS) Views assigned as proxy objects to all those tables, ensuring that each read access to one of the mentioned tables still returns the data as before. The CDS views consist of database joins in order to retrieve both master data from the original \( \text{xBEW(H)} \) table and transactional data from Universal Journal Entry Line Items table and Material Ledger table.

Hence all customer coding, reading data from those tables, will work as before because each read access to one of the tables will get redirected in the database interface layer of NetWeaver to the assigned CDS view. Write accesses to those tables have to be adjusted if transactional fields are affected.

One impact of the simplified MM-IM Inventory Valuation data model does exist if there are customer appends on the mentioned tables. The NetWeaver redirect capability requires that the database table and the assigned proxy view are compatible in the structure with respect to the number of fields and their type. Thus, if there is an append on one of the above mentioned tables, the assigned DDL source of the CDS proxy view must be made compatible.

Another impact of the simplified inventory valuation data model is a performance decrease of database read operations on the above mentioned tables. A data fetch on one of the mentioned tables in S/4HANA is slower than in SAP ERP 6.0 due to JOIN operations and on-the-fly aggregation. Hence performance-critical customer coding may need to be adjusted to improve performance.

### 26.11S4TWL - Goods movements without exclusive locking by material valuation

Application Components: MM-IM-GF-LOCK

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2338387</td>
<td>S4TWL - Goods movements without exclusive locking by material valuation</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

One major innovation of SAP S/4HANA in the area of MM-IM is the significant increase of transactional data throughput for high volume transactions, especially goods movements. To enable this from a technical point of view, it is necessary for the application logic to avoid exclusive locking on the application layer.

Currently two different locking methods are available for goods movements:

- The first method locks all affected materials exclusively on their plant level during the entire document processing stage. This method offers the fastest document processing speed, since only a few locks need to be set and all required material data only needs to be read once for the whole process. The drawback of this method is a high lock collision probability for similar parallel postings. Moreover, this effect worsens with document size since every additional item extends the total exclusive locking duration and scope. This method is called “Exclusive block” in Customizing.

- The second method involves individual locking of material master and valuation data. Reduced exclusive locking times are used to minimize the collision probability between parallel postings. To achieve this, intended stock changes are communicated early in the process via the central enqueue server. All similar postings need to read these numbers from the enqueue server and take them into account along with the data read from the database. The drawback of this method is increased effort resulting in a longer total runtime for each document. This method is called “Late block” in Customizing.

With SAP S/4HANA 1511 a new option to increase transactional data throughput for materials with Standard price control was introduced (for anonymous stock only). This option requires deactivation of the statistical moving average price and activation of “Late block”. With SAP S/4HANA 1610 this option also includes materials with Moving Average price control and all special stock types. The benefit of this option is that exclusive locking is no longer required for material valuation, which enables parallel material document processing. However, exclusive locking is still required if material master data is created or changed by a goods movement. Material master data is created by a goods movement if split valuation is used and a new batch has to be created, for instance. Changes of material master data concerns especially materials with Moving Average price control. When a goods movement changes the ratio between the stock value (SALK3) and the valued stock quantity (LBKUM), the moving average price
must be adjusted accordingly, which ultimately requires an exclusive lock until the V1 update. The quantity/value ratio is mainly changed by goods movements with an external value (for example, from the purchase order). However, if the change originates due to rounding differences only, the moving average price is not adjusted anymore. In addition, exclusive locking is still required, if SAP Note 1704534 (Deactivation of delivery costs for ML update) has been implemented.

SAP S/4HANA for Oil & Gas does also benefit from the new option starting with SAP S/4HANA 1709. For previous releases of SAP S/4HANA for Oil & Gas the recommendation is to use “Exclusive block”.

**Business Process related information**

The drawback of the new option described above is that temporary inconsistencies due to rounding differences may occur:

- Valuated stock quantity (LBKUM) = 0 and Stock Value (SALK3) <> 0
- Valuated stock quantity (LBKUM) > 0 and Stock Value (SALK3) < 0
- Valuated stock quantity (LBKUM) < 0 and Stock Value (SALK3) > 0

In addition, the same inconsistencies can occur for value-only articles with VKSAL instead of LBKUM, if SAP for Retail is used. These inconsistencies are temporary because they are usually corrected by the next goods movement. Otherwise, transaction code MR23 (Adjustment of Inventory Value) is available to correct inconsistent stock values. You can find more information about the Adjustment of Inventory Value transaction in the SAP Help Portal.

**Required and Recommended Action(s)**

See SAP Note 2267835 for more information about the deactivation of statistical moving average price, which is the prerequisite to increase transactional data throughput as described above.

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**26.12S4TWL - CWM in SAP S/4HANA**

**Application Components:** IS-CWM, MM-IM-GF-CWM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2358928</td>
<td>S4TWL - CWM in SAP S/4HANA</td>
</tr>
</tbody>
</table>
Symptom

CWM is available in SAP S/4HANA On premise beginning with 1610 FPS01. CWM is not available in earlier releases of SAP S/4HANA even though technical objects are visible.

Note, that the following features will not be supported by CWM in SAP S/4HANA:

- The 'old architecture' of Industry Solution IS-CWM that was part until SAP enhancement package 3 for SAP ERP 6.0
- The category of the unit of measure for a material with value 'B' = Parallel Unit of Measure (BUoM is Valuation Unit of Measure)
- Flexible Material Prices (FMP) a small application to furthermore support the price types of the ‘old architecture’

In addition to the mentioned features there are some additional changes which might have impact on customer coding related to CWM (see chapter description).

A conversion from IS-CWM to CWM in SAP S/4HANA is not available as part of SAP S/4HANA 1610.

As of SAP S/4HANA 1709, CWM is part of SAP's standard conversion tools.

Solution

Description

1. No further support of CWM business function /CWM/BF (“old CWM Architecture”) in SAP S/4HANA

When the CWM-solution is made available in SAP S/4HANA, the ‘old architecture’ of the industry solution IS-CWM (SAP ERP 6.0) will not be supported on SAP S/4HANA anymore.

The 'new architecture' of IS-CWM was introduced in SAP enhancement package 4 for SAP ERP 6.0. This 'new architecture' is harmonized with the SAP ERP standard and removes the dependencies to components Inventory Accounting (FIN-BAC-INV) and Logistics Inventory Management Engine (LIME). With SAP enhancement package 5 for SAP ERP 6.0, SAP provides migration tools (see note 1450225 - SAP CWM: Data Migration from Old to New Architecture and its attachments).

Please be aware that this migration is a project that requires preparation. SAP strongly recommends to contact the CWM Solution Management before!
Check if the business functions /CWM/BF or /CWM/CM_1 are active in any client. Use the transaction SFW_BROWSER and expand the subtree for Business Function Set /CWM/BFS. If the business function /CWM/BF is active and you intend to move to SAP S/4HANA you have to do a migration to switch to the ‘new architecture’ of CWM on SAP ERP 6.0.

In case business function /CWM/CM_1 is active no further action is needed, because you are already using the ‘new architecture’.

2. Category of Parallel Unit of Measure

In ECC 6.0 IS-CWM supports two categories of parallel unit of measure (PUoM). These are maintained in the material master, choosing the additional data tab 'Unit of measure'. The category of the unit of measure for a material with value 'B' (Parallel Unit of Measure (BUoM is Valuation Unit of Measure)) will NOT be supported in SAP S/4HANA.

CWM does NOT support the unit of measure category 'B' because of the following reasons:

- For CWM it is unnecessary to store quantities in a second unit of measure, such as category 'B', without any depending functionality.
- In SAP S/4HANA the category 'B' is reserved for Extended Warehouse Management (EWM). For EWM the category 'B' will control the usage of a PUoM only for the EWM solution in S4CORE.

You can check whether you use category 'B' with transaction SE16. Enter table 'MARM' and make sure that field /CWM/TY2TQ is on the selection screen. If done select entry 'B' for this field and execute. In case you get the message 'No table entries found for specified key' no further steps are required. If you find any materials please refer to note 2358909 for further information.

3. Flexible Material Prices (FMP)

With the removal of the ‘old architecture’ all prices of Inventory Accounting (InvAcc) had to be shifted to standard tables. Especially the last prices for material valuation were transferred into table MBEW. But not all prices could be stored in the particular standard tables.

For compatibility reasons FMP solution was developed to cover these self-rulled price types. With S/4HANA the Flexible Material Prices is not supported.
You can check whether you use FMP with transaction SE16. Enter table ‘/FMP/D_MP_PRIC’ and check if there are entries available. In case there are no entries you can be sure that this module was not used in the past at all.
For more information, see note: 2414624. See also SI10: Logistics_MM-IM.

In case of further questions please contact the CWM Solution Management.

4. BOR, BAPI, IDoc and ALE changes

Business objects (BOR-objects) and its function modules are provided to connect system and solutions.
Following the strategy to bring CWM into S4CORE the decision was taken to omit CWM BOR-objects as well as their respective generated coding. To compensate standard BAPI function modules were CWM-enhanced instead:

<table>
<thead>
<tr>
<th>BOR object</th>
<th>BOR method</th>
<th>CWM enhanced Standard BAPI</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS1001006</td>
<td>SAVEDATA</td>
<td>BAPI_MATERIAL_SAVEDATA</td>
</tr>
<tr>
<td>BUS1001006</td>
<td>SAVEREPlica</td>
<td>BAPI_MATERIAL_SAVEREPlica</td>
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<tr>
<td>BUS2015</td>
<td>CONFIRMDECentral</td>
<td>BAPI_INB_DELIVERY_CONFIRM_DEC</td>
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<tr>
<td>BUS2015</td>
<td>DELIVERYCHANGE</td>
<td>BAPI_INB_DELIVERY_CHANGE</td>
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<td>BUS2015</td>
<td>SAVEREPlica</td>
<td>BAPI_INB_DELIVERY_SAVEREPlica</td>
</tr>
<tr>
<td>BUS2017</td>
<td>CREATEFROMDATA</td>
<td>BAPI_GOODSMVT_CREATE</td>
</tr>
<tr>
<td>LIKP</td>
<td>CONFIRMDECentral</td>
<td>BAPI_OUTB_DELIVERY_CONFIRM_DEC</td>
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<tr>
<td>LIKP</td>
<td>SPLITDECentral</td>
<td>BAPI_OUTB_DELIVERY_SPLIT_DEC</td>
</tr>
</tbody>
</table>

You need to check if any obsolete CWM object (Type definition or Function Module) is used by own customer coding. If any usage location is found the respective coding has to be revised and adjusted.
In case of any question please contact the CWM Solution Management.

The following CWM BOR-objects are not available in SAP S/4HANA:

<table>
<thead>
<tr>
<th>Deleted BOR object</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/CWM/BUS06</td>
<td>Standard material</td>
</tr>
<tr>
<td>/CWM/BUS15</td>
<td>Inbound delivery</td>
</tr>
<tr>
<td>/CWM/BUS17</td>
<td>Goods Movement</td>
</tr>
<tr>
<td>/CWM/BUS28</td>
<td>Material inventory</td>
</tr>
<tr>
<td>/CWM/BUS42</td>
<td>REM Backflush</td>
</tr>
<tr>
<td>/CWM/BUS70</td>
<td>Handling unit</td>
</tr>
<tr>
<td>/CWM/LIKP</td>
<td>Outbound Delivery</td>
</tr>
</tbody>
</table>

(Use transaction SWO1 to inspect the Business Objects)
The following list of dependent objects that are not available can be used to support an investigation of own coding.

<table>
<thead>
<tr>
<th>Obsolete Object Type</th>
<th>Method</th>
<th>Message Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>/CWM/BUS06</td>
<td>SAVEDATA</td>
<td>/CWM/MATMAS_BAPI</td>
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<td>/CWM/MATMAS_MASS_BAPI</td>
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<td>/CWM/BUS15</td>
<td>CONFIRMDECENTRAL</td>
<td>/CWM/SHP_IBDLV_CONFIRM_DEC</td>
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<td>/CWM/SHP_IBDLV_CHANGE</td>
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<td>SAVEREPlica</td>
<td>/CWM/SHP_IBDLV_SAVE_REPLICA</td>
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<td>/CWM/BUS17</td>
<td>CREATEFROMDATA</td>
<td>/CWM/MBGMCR</td>
</tr>
<tr>
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</tr>
<tr>
<td>/CWM/LIKP</td>
<td>SPLITDECENTRAL</td>
<td>/CWM/SHP_OBDLV_SPLIT_DECENTRAL</td>
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</table>

<table>
<thead>
<tr>
<th>Obsolete Object Type</th>
<th>Method</th>
<th>IDOC Type</th>
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<td>/CWM/MBGMCR01</td>
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<td>/CWM/SHP_OBDLV_SPLIT_DECENTRAL01</td>
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<table>
<thead>
<tr>
<th>Obsolete Object Type</th>
<th>Method</th>
<th>Function module for outbound ALE</th>
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<tbody>
<tr>
<td>/CWM/BUS06</td>
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<td>/CWM/ALE_GOODSMVT_CREATE</td>
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<th>Method</th>
<th>Function module for inbound ALE</th>
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<tr>
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<td>/CWM/IDOC_INPUT_MATMAS_MASS_BA</td>
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<td>/CWM/BUS15</td>
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<td>/CWM/IDOC_INPUT_SHP_IBDLV_CONF</td>
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<td>/CWM/BUS17</td>
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<td>/CWM/IDOC_INPUT_MBGMCRR</td>
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<td>/CWM/LIKP</td>
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### Obsolete Object Type Method

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<td></td>
<td>/CWM/E1BP_MARM</td>
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<tr>
<td>/CWM/BUS06 SAVEREPLICAA</td>
<td>/CWM/E1BPE1MBEW</td>
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<td>/CWM/BUS15 CONFIRMDECENTRAL</td>
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</tr>
<tr>
<td>/CWM/BUS15 SAVEREPLICAA</td>
<td>/CWM/E1SHP_IBDLV_SAVE_REPLI</td>
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<td>/CWM/BUS17 CREATEFROMDATA</td>
<td>/CWM/E1SHP_IBDLV_SAVE_REPLI</td>
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<td>/CWM/LIKP SPLITDECENTRAL</td>
<td>/CWM/E1SHP_OBDLV_SPLIT_DECE</td>
</tr>
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</table>

(Use transaction BDBG to inspect Message types, IDoc types, Segments and Function Modules for ALE.)

5. Screen Sequences CW and CE for Material Master

Screen sequences 'CW' and 'CE' for Material Master are not delivered as part of CWM in S/4HANA. Although existing sequences can be migrated to S/4HANA they are no longer supported by SAP and should be replaced by standard sequences.

In IS-CWM special Screen sequences were delivered to integrate required CW information in the material master:

- CW (Catch Weight Management)
- CE (CWM with EWM Views)

These Screen Sequences CW and CE are not necessary in S/4HANA because the CW related information is integrated in the standard screen sequence '21'.

In the unlikely case that a customer had defined additional screens these customer entries have to be integrated in the used standard '21'.

Please use transaction OMT3B to review the definitions.
Please use transaction OMT3E to review the Screen sequence control.
Please use transaction OMT3U to review ‘Organizational levels’.
6. Removal of attributes within CWM

There are some table attributes which are (or will be) no longer supported in a CWM activated solution. If one of the objects in the following list is used within customer coding, it has to be adjusted to ensure a correct system behavior.

- **Tolerance Group**: use field ‘CWQTOLGR’ of table MARA instead of '/CWM/TOLGR'
  CWM and EWM use the same tolerance group values. Different semantic tolerance checks for CWM and EWM have to be harmonized.
- **Category/Type of a Unit of Measure**: use field ‘TY2TQ’ of table MARM instead of '/CWM/TY2TQ'
- **In IS-CWM, KZWSM of table MARA and KZWSO of table MARM was set to ‘B’ for all CW materials. In S/4HANA this flag will not be set by CWM. For CW material, its content will be set according to the settings of Active Ingredient Management in the same way as for standard materials.**

7. Removal of BAdI-Definitions

The following listed Business Add-In (BAdI) are no longer available in S/4HANA. Any related customer implementation is obsolete and can also be removed.

- /CWM/TOLERANCE_GROUP (Tolerance Group)
- /CWM/DEFAULT_STOCK_O (Conversion of the BUoM or the PUoM to an alternative UoM)
- /CWM/DEFAULT_MIGO (Allows the entry quantity, the parallel entry quantity and the entry units of measure to be proposed for catch weight materials in transaction MIGO)

**Other Terms**

CWM, IS-CWM, S/4HANA, Simplification List, FMP, Flexible Material Prices, BOR, BAPI, IDOC, ALE, BAdI, Screen Sequence
27. Logistics – PLM

27.1 S4TWL - Engineering Desktop (EDesk)

Application Components: PLM-WUI-APP-EDK

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267868</td>
<td>S4TWL - Engineering Desktop (EDesk)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1511 the EDesk functionality within SAP Product Lifecycle Management (SAP PLM) application is not available. As successor functionality for CAD integration requirements, customers can use SAP Engineering Control Center for SAP S/4HANA, on-premise edition.

For more information see SAP Note: 2234028

Business Process related information

Customers will not be able to store CAD files directly in SAP DMS. Downstream processes like Visual Enterprise Function will be restricted. Customer might use alternative solution SAP Engineering Center, planned for further S/4HANA release.

Process for CAD-Data Management (derive BOM, store drawings, generation/consumption of viewable) cannot be implemented.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | EDESK_CUS, EDESK_IPPE |

Required and Recommended Action(s)
Customers can move to SAP Engineering Control Center for SAP S/4HANA.

**Custom Code related information**

EDESK is not a "reuse" component. EDESK is rather an application with hooked in BAdis and custom code. If the CDESK-Application is not available, no BAdis are executed and therefore custom code is not executed.

### 27.2 S4TWL - DMS - STEP Support

Application Components: LO-PDM-GF

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
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</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1511 the STEP support within SAP Product Lifecycle Management (SAP PLM) is not available. Standard for exchanging Product Model data is not available in SAP S/4HANA, on-premise edition 1511.

**Business Process related information**

STEP is used for export Product Model data in format like XML. But this is not used by many customers due to changing standard for exchanging the data.

No influence on business process expected and Product Model data can still be extracted using various custom methods.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | STEP10, STEP20 |
Required and Recommended Action(s)

Check if there is any scenario which is using STEP and use alternative methods to exchange the data.

Related SAP Notes

| Custom Code related information | SAP Note: 2216258 |

27.3 S4TWL - DMS Documents@WEB

Application Components: CA-DMS

Related Notes:

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<thead>
<tr>
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<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
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<td>S4TWL - DMS Documents@WEB</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1511 Documents@web is not available.

Documents @ Web transactions like CVW* are not available in SAP S/4HANA, on-premise edition 1511. This is obsolete now and PLM WUI can be used for the same

Business Process related information

Use PLM WUI.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | CVW* |
**Required and Recommended Action(s)**

Check if Web Document is used anywhere. Use PLM WUI or FIORI tiles for CV transactions.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2217857 |

**27.4 S4TWL - Variant Configuration**

**Application Components:** LO-VC

**Related Notes:**

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<thead>
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<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267873</td>
<td>S4TWL - Variant Configuration</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

In SAP S/4HANA processes are simplified by switching off obsolete and redundant functionality related to variant configuration. It is not possible anymore to maintain the "Classification as selection condition" in the bill of material. Furthermore, the usage of actions has been disabled.

Thereby, customers can benefit from the following:

- The modelling will be simpler.
- The error rate is reduced and the consistency of models will increase.
- Follow-up processes such as Material Requirements Planning (MRP) Live can be accelerated.

**Description**

The following functionality is disabled in SAP S/4HANA, On Premise 1511:
• Object dependencies of type actions have been documented as obsolete. Creation of object dependencies of type actions isn't possible anymore (e.g. transaction CU01). Configuration models containing actions are still supported and behave like before, but new actions can't be created.

• It's not possible to maintain "Classification as Selection Condition" in Material BOM items anymore (e.g. transactions CS01, CS02). If in Material BOM items classes as selection condition are already maintained, the BOM explosion will work as before. But it's not allowed to use "Classification as Selection Condition" for BOM items, where it wasn't used before.

• Transactions have been removed (see list below)

Business Process related information

• Object dependencies of type procedures should be used instead of type actions. It's recommended to substitute existing actions by procedures in the configuration models.

• Class nodes should be used in Material BOM items instead of "Classification as selection condition". It's recommended to make this substitution also in existing material BOMs.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | CU51E -> Included in CU51 | CU52 -> Included in CU51 | CU52E -> Included in CU51 | CU55 -> Obsolete | CU80 -> Use PMEVC instead | CUMODEL -> Use PMEVC instead |

Required and Recommended Action(s)

If you use actions in VC models, no action needs to be taken for existing models. For new models, however, we recommend using the concept involving procedures and constraints. We also recommend remodeling existing models to be prepared for future innovations.

If you use "Classification as a selection condition," no action is required for existing models. For new models we recommend setting up selection conditions in BOMs by class nodes.

Related SAP Notes

| Custom Code related information | SAP Notes: 2210904 , 2214906 |
27.5 S4TWL - Classification

Application Components: CA-CL

Related Notes:

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</thead>
<tbody>
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<td>S4TWL - Classification</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

With SAP S/4HANA, on-premise edition 1511 transactions of the Classification are renovated so that transactions may have changed functionality or may be completely removed within SAP Product Lifecycle Management (SAP PLM).

- User Defined Data Type (031) for characteristics has been removed.
- Rename Characteristic functionality has been disabled.
- Parameter Effectivity has been hidden.
- Due to security reasons batch import has been limited and batch import is possible only from presentation server.

Business Process related information

Parameter Effectivity has been hidden for classification in the SAP S/4HANA, on-premise edition 1511 shipment. As an alternative solution, Variant Configuration shall be used with object based dependencies.

For batch input and direct input, use SAP S/4HANA Migration Cockpit.

<table>
<thead>
<tr>
<th>Transaction not available since SAP S/4HANA on-premise edition 1511</th>
<th>Available alternative transactions and reports</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL20 Assign Object to Classes</td>
<td>CL20N Assign Object to Classes</td>
</tr>
<tr>
<td>CL22 Allocate Class to Classes</td>
<td>CL22N Assign Class to Superior Classes</td>
</tr>
<tr>
<td>CL24 Assign Objects to One Class</td>
<td>CL24N Assign Objects / Classes to Class</td>
</tr>
<tr>
<td>CL6E Copy DIN Standard</td>
<td>-</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
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<td>------</td>
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<tr>
<td>CL6F</td>
<td>Copy DIN Characteristic Data</td>
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<tr>
<td>CL6G</td>
<td>Create Material w. DIN Char. Data</td>
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<tr>
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<td>Direct Input for Classes</td>
</tr>
<tr>
<td>CLB1</td>
<td>Batch Input for Classification</td>
</tr>
<tr>
<td>CLB2</td>
<td>Direct Input for Classification</td>
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<td>Display Classification File</td>
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<td>Generate Source Code</td>
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<td>Display Class Maintenance Data File</td>
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<td>O024</td>
<td>Transfer Class Data: Direct Input</td>
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<td>Create Characteristic</td>
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<td>Where-Used List for Characteristics / Characteristic Values</td>
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<td>Maint. Seq. File for Characteristics</td>
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<td>Display Change Numbers Used</td>
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<td>Where-Used List of Chars in Deps</td>
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<td>Product Structure Browser</td>
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<td>Description</td>
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<td>Plus-Minus Object Display</td>
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**Accessible via Customizing**

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<td>S_ALR_87011758</td>
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</table>

**Required and Recommended Action(s)**

No special actions required.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>SAP note: 2213569</th>
</tr>
</thead>
</table>
27.6 S4TWL - IPPE-BOM Converter

Application Components: PLM-PPM-PDN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2267879</td>
<td>S4TWL - IPPE-BOM Converter</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1511 the IPPE-BOM Converter within SAP Product Lifecycle Management (SAP PLM) is not available. Customers using this functionality might consider using Product Structure Management and Product Structure Synchronization instead of iPPE and BOM Converter. Please observe that iPPE and PSM are two separate applications and a migration might be necessary.

**Business Process related information**

iPPE CMP structures cannot be converted to classic BOMs anymore.

**Transfer of iPPE to BOM**

| Transaction not available in SAP S/4HANA on-premise edition 1511 | PPECS |

**Required and Recommended Action(s)**

Customers using this functionality should evaluate if Product Structure Management and Product Structure Synchronization fit their needs.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2226275 |
27.7 S4TWL - BOM, Routing, Production Version

Application Components: LO-MD-BOM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267880</td>
<td>S4TWL - BOM, Routing, Production Version</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Production versions are mandatory in S/4HANA. MRP, planned order creation, and production order creation only find a BOM and routing alternative if a production version is maintained for the BOM and routing alternative.

Business Value

- Production versions allow to define which BOM alternative goes together with which routing alternative
- Mandatory production versions make MRP sourcing simpler. There is only one option to determine BOM and routing alternatives for a manufactured material
- There is no need to control MRP sourcing with additional control indicators like the selection method MARC-ALTSL in the material master
- Production versions are mandatory in PP/DS. PP/DS is an integral part of S/4HANA. Mandatory production versions make sourcing in MRP and PP/DS more similar
- Sourcing for manufactured and for purchased parts is more similar. In S/4HANA production versions are the source of supply for manufactured materials. Purchasing info records, contracts, and delivery schedules are the possible sources of supply for purchased parts. Every possible source of supply has temporal validity, lotsize interval, and a status, which blocks using the source of supply in MRP, but not in manual sourcing.

Solution

Description
With SAP S/4HANA, on-premise edition 1511, the functional relation between Bill of Material (BOM), Routing and Production Version has changed. It is now mandatory for Manufacturing BOMs to maintain the product version for correct BOM explosion. Production versions can automatically be created for BOMs using report *Product Version Migration for BOM* (report CS_BOM_PRODVER_MIGRATION). Production versions can automatically be created for BOMs and routings using report *Program for production version migration for BOM determination* (report CS_BOM_PRODVER_MIGRATION02).

The customizing that determines the items valid for BOM explosion now has the default value ‘2’ (Version with latest valid-from date). This customizing is available in *Define Modification Parameters* under *Production -> Basic Data -> Bill of Material -> Control Data for Bills of Material*.

**Required and Recommended Action(s)**

It is recommended to migrate BOMs, for which there is no corresponding routing using report CS_BOM_PRODVER_MIGRATION. It is recommended to migrate BOMs, for which there exist corresponding routings using report CS_BOM_PRODVER_MIGRATION02.

**Related SAP Notes**

| Custom Code related information | SAP Notes: 2215061, 2215123 |

**Other Terms**

Production version, Bill of Material, BOM, BOM explosion, component list, verid, components, component, subcontracting, production order, planned order, subcontracting purchase requisition, subcontracting purchase order, MRP, MD01, MD02, MD03, MD01N, MRP Live, MS01, MS02, MS03, MD40, MD41, MD42, CS01, CS02, MD11, MD12, MD13, subcontracting schedule line, subcontracting scheduling agreement, BOM usage, STLAN, alternatives, ALTSL, selection method, selection priority, priority, BOM selection ID, selection ID, long-term planning, STLID, LTPID, CSLID, OPPQ, PLSC-LTPID, MS31, MS32, MS33, STLAN, STLAL, ARANG, MDFV, C223, MM01, MM02, RMMRP010, RMMRP000, RMMPS000, MDBT, MDBS, MSBT

**27.8 S4TWL - SAP PLM Recipe Development**

Application Components: PLM-WUI-RCP-SPE, PLM-WUI-RCP-LBL, PLM-WUI-RCP-RCP

Related Notes:
### Note Type | Note Number | Note Description
---|---|---
Business Impact | 2267893 | S4TWL - SAP PLM Recipe Development

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Fast Entry screen and Compliance with Expert server not supported on S/4 HANA

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1511 following functional changes were done:

1) Maintenance a specification using the Fast Entry Screen is not available.

2) The compliance check functionality will the ABAP based implementation and will not support and will not need the EH&S Expert Server

**Business Process related information**

Fast Entry Screen: This tool cannot be used.

Compliance check without expert server: the current functionality is limited to use without expert server, which means a narrower functionality. No influence on Business Processes expected. Users shall use the already available maintenance for the specification.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2212999 |

**How to Determine Relevancy**

- Compliance Check with the Expert Server is used if entries exist in DB Table EHSBC_RC_PARA (check with SE16)

**Other Terms**
PLM, Recipe Development, Fast Entry Screen, Compliance, Expert Server

27.9 S4TWL - Engineering Change Management ECR/ECO

Application Components: CA-GTF-ECM, LO-ECH, PLM-WUI-OBJ-ECN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267918</td>
<td>S4TWL - Engineering Change Management ECR/ECO</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The Engineering Change Request / Engineering Change Order functionality is no more available with SAP S/4HANA.

**Solution**

**Description**

With SAP S/4HANA the current the Engineering Change Request / Engineering Change Order functionality within SAP Product Lifecycle Management (SAP PLM) is not available anymore. It is recommended for new customers to use Change Record instead for tracking, approving and facilitating (change management) purposes. Alternatively Engineering Record (only available on Web UI as part of the compatibility package) could be assessed.

**Business Process related information**

Managing (tracking, approving and facilitating) changes will still be possible. The Change Record / Engineering Record shall be used for this.

The change number will serve to identify the explicit changes and the Change Record / Engineering Record is to be used to manage the whole process. The approval process, the objects to be changed will all be part of the Engineering Record, while the change number will solely be used to facilitate the changes after approval has been given.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | CC31 - Create Change Request |
| | CC32 - Change Change Request |
| | CC33 - Display Change Request |
| | CC62 - Conversion of change packages |
| | OS72 - ECH: Workflow for ECR/ECO |
| | OS73 - ECH: Workflow for Object Mgmt Record |

**Required and Recommended Action(s)**

Existing and running Change Requests and Change Orders should be finished before system upgrade is facilitated as working with these type of object will not be possible in S/4HANA. Additional settings will be required in the system for the Customer to use the Change Record / Engineering Record. Set up Change Record / Engineering Record (Types, status network, BRF+) and Process Route (Activities, services, process route templates, BRF+) for tracking, approving and facilitating business object related changes.

**How to Determine Relevancy**

- The Engineering Change Request / Engineering Change Order functionality is used if entries exist in DB Table AENR where the CCART field is fileld (check with SE16)
- Use ST03N (on the production system, if possible) to check transaction profile of the complete last month, whether the following transactions have been used: CC31, CC32, CC33, CC62, OS72, OS73

**Other Terms**

Change Number, Change Master, Change Management, Engineering Change Request, Engineering Change Order, ECR, ECO

**27.10S4TWL - Enterprise Search in SAP Product Lifecycle Management (SAP PLM)**

Application Components: PLM-WUI-APP-SEA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267836</td>
<td>S4TWL - Enterprise Search</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

PLM Enterprise Search models will not work after an upgrade to S/4HANA.

Solution

Description

With SAP S/4HANA, on-premise edition 1511 the Enterprise Search models are now replication free search models (using HANA DB tables instead) within SAP Product Lifecycle Management (SAP PLM).

Business Process related information

With the new solution the following searches are not available in SAP S/4HANA on-premise 1511 release:

- Document search with linked documents
- Document search with attached document content
- Synchronization BOM to BOM search with assigned MBOMs
- Synchronization PSM to BOM search with source PSM Structure and target MBOMs
- MBOM, Recipe and PSM search with assigned classification data
- MBOM, Recipe and PSM search with assigned document data
- Specification and PSM search with status data
- Label search with recipe data origin
- Recipe search with formula item quantity
- Search for any object with IDs without leading zeroes

With the SAP S/4HANA on-premise 1610 release the following searches are still not available:

- Document search with attached document content
- Recipe search with formula item quantity
- Search for any object with IDs without leading zeroes

From the SAP S/4HANA on-premise 1709 release on the following searches are still not available:

- Recipe search with formula item quantity
- Search for any object with IDs without leading zeroes (with the exception of the material number, see the note 2935353)

Required and Recommended Action(s)
How to Determine Relevancy

1. Navigate to the PLM Search customizing: Product Lifecycle Management (PLM) -> PLM Web User Interface -> PLM Web Applications -> PLM Search -> Define Settings for PLM Search
   2. Check if any of the following columns contains entries referring to a custom search model or a class that resides in the customer namespace:
      1. Object Type of Service
      2. Result Class Name
      3. Key Conv. Class Name
      4. Configuration ID

Other Terms

PLM, Enterprise Search

27.11S4TWL - Engineering Change Management Change Sequence Graph

Application Components: LO-ECH

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267920</td>
<td>S4TWL - Engineering Change Management Change Sequence Graph</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Transactions related to Change Sequence Graph are not available in SAP S/4HANA anymore.

Solution

Description
With SAP S/4HANA the current Change Sequence Graph functionality within SAP Product Lifecycle Management (SAP PLM) is not available anymore.

**Business Process related information**

No influence on business processes expected.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>CCSEQ_CSGUPD - Update Change Sequence Graph</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CCSEQ_CUST - Activate Change Sequence Graph</td>
</tr>
<tr>
<td></td>
<td>CCSEQ_CYCLE - Display Cycles</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

None

**How to Determine Relevancy**

- Change Sequence Graph is used if entries exist in DB Tables ENODE or EDGE (check with SE16)

**Other Terms**

Change Sequence Graph, Engineering Change Management

**27.12S4TWL - Engineering Workbench**

Application Components: LO-EWB

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267943</td>
<td>S4TWL - Engineering Workbench</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Upgrade to S/4 HANA

**Solution**
Description

With SAP S/4HANA, on-premise edition 1511 the Engineering Workbench is not the target architecture and will not receive any further updates (EWB Functionality in SAP S/4HANA on-premise edition 1511 is not considered as future technology. Functional equivalent is provided by the visual manufacturing planner, see also the Business Process related information).

Business Process related information

It is suggested to use alternative UIs, e.g. SAP Fiori App for Maintain Bill of Material, Visual Manufacturing Planner for Creating Manufacturing BOMS from EBOMs and also doing component allocation to routings. The related transaction CWBQM remains available even beyond the defined compatibility scope period and allows the maintenance of inspection plans (plan type “Q”) and specific features therein (e.g. multiple specifications for inspection characteristics, mass changes). However, no functional equivalent or additional functionality will be provided in future.

| Transaction not available in SAP S/4HANA on-premise edition 1511 | CEWB (affected but not removed) |

Required and Recommended Action(s)

Please use another transaction in SAP in place of Engineering Workbench. As of now new applications e.g. SAP Fiori App for Maintain Bill of Material, Visual Manufacturing Planner for Creating Manufacturing BOMS from EBOMs and also doing component allocation to routings will get innovations an shall be used in order to get new innovations in S/4HANA.

Other Terms

Engineering Workbench, Bill of Material

27.13S4TWL - Collaborative Engineering

Application Components: LO-CEP-CTL, LO-CEP

Related Notes:

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<tr>
<th>Note Type</th>
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<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268017</td>
<td>S4TWL - Collaborative Engineering</td>
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</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1511 the Collaborative Engineering is not available. SAP recommends to evaluate SAP Mobile Documents as a substitute for selected collaboration scenarios.

Business Process related information

The Collaborative Engineering Functionality is not available and current alternative solutions like e.g. Mobile Documents should be evaluated as alternatives.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>CE01</th>
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<tbody>
<tr>
<td></td>
<td>CE02</td>
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<tr>
<td></td>
<td>CE03</td>
</tr>
<tr>
<td></td>
<td>CEP_R3_MON</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)

Evaluate Mobile Document as alternative for collaboration.

Related SAP Notes

Custom Code related information | SAP Note: 2226803

27.14S4TWL - iPPE Time Analysis

Application Components: AP-PPE-ACT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268018</td>
<td>S4TWL - iPPE Time Analysis</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA, the integration of time analysis tools into the *iPPE Workbench* is not available. This integration was previously available via the customizing transaction *OPPE07*. This transaction will be removed.

**Business Process related information**

| Transaction not available in SAP S/4HANA on-premise edition 1511 | OPPE07 |

**Required and Recommended Action(s)**

If the integration of a time analysis tool into the iPPE workbench was done via transaction OPPE07, this integration has to be done by customer own implementation now.

**Related SAP Notes**

| Custom Code related information | Transaction OPPE07 is not available any longer |

27.15S4TWL - Integration to SAP Portfolio and Project Management

**Application Components:** PPM-PRO, PPM-FIO, PPM-PFM

**Related Notes:**

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268020</td>
<td>S4TWL - Integration to SAP Portfolio and Project Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.
Solution

Description

Integration to SAP Portfolio and Project Management are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Integration to SAP Portfolio and Project Management can be found under the ID 440.

Business Process related information

The integration topics are:

- Integration of Portfolio Management with Project System, Plant Maintenance, Financials
- Integration of Project Management with ERP Financials via the Generic Cost Collector/Accounting Object Manager
- Object Links between SAP Portfolio and Project Management objects and S/4 objects (various)
- CATS Integration for time recording

Integration of Portfolio Management with Project System, Plant Maintenance, Financials and Integration of Project Management with ERP Financials via the Generic Cost Collector/Accounting Object Manager

The integration between Portfolio Management and S/4HANA financials has been modernized by support of transferring planned costs from the portfolio item to a linked PS project into ACDOCP. With this modernization in SAP S/4HANA 2022 FPS1 the integration is part of the SAP S/4HANA perpetual scope.

The integration of Project Management with ERP Financials via the Generic Cost Collector/Accounting Object Manager has been modernized and with this modernization can be used as part of the perpetual scope as of SAP S/4HANA 2022. With this modernization plan costs from Project Management can automatically be saved in the central financial planning table ACDOCP in addition to the CO tables.

Object Links between SAP Portfolio and Project Management objects and S/4 objects (various)

This category only refers to object links between Portfolio and Project Management and objects in an SAP S/4HANA system, for example to Project System, Plant Maintenance etc.. With SAP S/4HANA 2022 FPS1 the object link framework has been modernized by supporting links to Fiori app. For S/4HANA object links navigation to Fiori apps have
been included in the delivery customizing. With this modernization object links are part of the SAP S/4HANA perpetual scope.

**CATS Integration for time recording**

The topic of CATS integration has been modernized by the new Fiori app Timesheet Analytics - Activities with SAP S/4HANA 2022. With this modernization the CATS integration is part of the SAP S/4HANA perpetual scope.

**Required and Recommended Action(s)**

For the modernized topics, upgrade to the relevant SAP S/4HANA release before expiry date of the compatibility scope.

**27.16S4TWL - Routing Component Assignment**

Application Components: PLM-WUI-APP-RTG

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268041</td>
<td>S4TWL - Routing Component Assignment</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1511 the current Routing Component Assignment (RCA) in Guided Structure Synchronization is not available. As Visual Enterprise Manufacturing Planner would be the successor for RCA.

**Business Process related information**

Following features shall be accomplished using VEMP

- Creation of MBOM from EBOM via Routing
- Component Allocation from MBOM to Routing
Required and Recommended Action(s)

Switch Component Allocation Process from RCA to VEMP or Routing UI

Related SAP Notes

| Custom Code related information | SAP Note: 2216303 |

27.17S4TWL - Release Management Framework

Application Components: PLM-PPM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268042</td>
<td>S4TWL - Release Management Framework</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1511 the current Release Management Framework functionality within SAP Product Lifecycle Management (SAP PLM) is not available anymore. It is recommended for new customers to have a look at the Change Record or Engineering Record functionality and check if the functionality there covers your requirements.

Business Process related information

Managing Releases with the Release Management Framework will not be possible any longer.

Transaction not available in SAP S/4HANA on-premise edition 1511 RLMFW_CUST, RLMFW_NUM, RLMFW_OOCU
Required and Recommended Action(s)

It is recommended for new customers to have a look at the Change Record or Engineering Record functionality and check if the functionality there covers your requirements.

Related SAP Notes

| Custom Code related information | SAP Note: 2226357 |

27.18S4TWL - Engineering Record

Application Components: PLM-WUI-OBJ-ECR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2268043</td>
<td>S4TWL - Engineering Record</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Upgrade information

Solution

Description

The PLM Web UI Engineering Record (PLM-WUI-OBJ-ECR) is part of the compatibility package, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, PLM Web UI Engineering Record can be found under the ID 441.

Its alternative solution, Change Record (PLM-CR) is available with more modern user interface and additional features, and it is continuously being improved. However, customers can continue to use Engineering Record within SAP S/4HANA as long as the compatibility pack is supported.
Business Process Related Information

The following capabilities are the key available capabilities in the alternative solution, Change Record:

- **SAP Fiori UX** to deliver personalized, responsive, and simple user experience including:
  - Status-based field attributes
  - Visual change process to track milestones
  - Quick overview on assigned change objects
  - Thumbnails of change objects (on-premise only)

- **Workflow** driven change management process using process routes:
  - Rule-based automatic or ad-hoc template loading
  - Support of parallel, sequential
  - Support of background tasks (on-premise only)
  - Graphical process route status overview
  - Integration to S/4HANA Teams and Responsibility Management
  - Automatic agent determination
  - Unified My Inbox for task owners to monitor and handle their tasks
  - Email notifications on task assignments (on-premise only)
  - Sub-workflows for change objects

- **Ad-hoc stakeholder communication with SAP CoPilot or built-in commenting functions**

- **Support of Electronic Signatures** including signature strategies (on-premise only)

- **Easy attachments including support for Document Info Records**

- **Change impact analysis** to determine the related impact in the downstream processes

- **Automatic Change Number generation**

- **Change Record hierarchies**

- **Engineering Cockpit**, giving actionable insights on business process with visualized data

- **Extensibility on customer attributes via**
  - SAP S/4HANA Custom Fields and Logic app
  - Integration to Classification System

- **Search capabilities using SAP Fiori Search**

- **Newly Added Features** with **On-Premise 2022** release:
  - Enabling Digital Signature at Change Item level (on-premise only)
  - Ability to assign purpose to a changed record type via configuration
  - Integration of BOM objects to change records include:
    - Equipment BOM
    - Standard BOM
    - Functional location BOM
    - Variant BOM
    - Order BOM
- WBS BOM
  - Integration of task list object types to change records include:
    - Equipment (type E)
    - Functional location (type T)
    - General maintenance task list (type A)
    - Rough-cut planning profile task list (type 3)
    - Reference operation set task list (type S)
    - Rate routing task list (type R)
    - Reference rate routing task list (type M)

More information about Change Record can be found in the following applications:

- [Manage Change Records](#)
- [Apps in Change Management](#)

Comparing to the capabilities of Engineering Record in ECC, the following key feature is currently missing in SAP S/4HANA Change Record:

- Allowing customer-defined change objects

**Other Terms**

Engineering Record, PLM Web UI, Change Record, compatibility pack

**27.19S4TWL - PLM Labeling Usage**

Application Components: PLM-WUI-RCP-LBL, PLM-WUI-RCP

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2387911</td>
<td>S4TWL - PLM Labeling Usage</td>
</tr>
</tbody>
</table>

**Symptom**

SAP PLM Recipe Development Labeling Usage hiding

**Reason and Prerequisites**

In S4 OP in PLM Recipe Development Labeling usage tab under General Data not supported

**Solution**
In SAP PLM Recipe Development Labeling object the header level Usage tab is not supported and disabled. Relevant rating and validity area search fields were also removed from the PLM Advanced Search functionality for labeling object. See related Custom Code note in reference section for details.

Other Terms

S4CORE, Simplification, Hiding, Labeling, Usage

27.20S4TWL - Engineering Record with LAMA

Application Components: PLM-WUI-OBJ-ECR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2401762</td>
<td>S4TWL - Engineering Record with LAMA</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

When customers perform a conversion to SAP S/4HANA from a DIMP LAMA system, they need to transfer the changes items from the XML storage to the database persistence to convert the internal material numbers.

Business Process related information

Run the /PLMI/ER_CI_TRANSFER report.

27.21S4TWL - Assemblies

Application Components: PLM-WUI-OBJ-PSM

Related Notes:
### Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 2267840 | S4TWL - Assemblies

### Symptom
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

### Solution

#### Description
In SAP S/4HANA, the functions related to Assemblies in product structure management within SAP Product Lifecycle Management (SAP PLM) are not available.

#### Business Process related information
Product Assembly is not available in SAP S/4HANA, on-premise edition 1511. General PFCG related authorizations can apply.

Following functionalities are no longer available:

- Creation of Product Assemblies
- Changing Product Assemblies
- The navigation to the Product Assembly Web UI
- Support of Product Assemblies in the Engineering Record
- Display of Product Assemblies in the Object Navigator
- Usage of Product Assembly Groups as Phantom Assemblies in the Product Structure Management Web UI

### Required and Recommended Action(s)
Customers moving from SAP Business Suite to SAP S/4HANA, on-premise edition 1511 can use the report /PLMI/ER_ASM_DELETION to remove Product Assembly related entries from the Engineering Record and Object Navigator customizing.

### 27.22S4TWL - New Access Control Management

Application Components:PLM-WUI-APP-ACC

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2601548</td>
<td>S4TWL - New Access Control Management (ACM)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Simplification Item is applicable in this case.

**Reason and Prerequisites**

Access Control Management has restrictions in S/4HANA.

**Solution**

**Description**

The PLM specific Access Control Management (ACM) is available in the SAP S/4HANA, but it has some differences from the Business Suite functionality.

Also please check the related SAP Note: 2212593

**Business Process related information**

The ACM is available in SAP S/4HANA, but only supports instance specific data access via the owning contexts (PLM_ACC) for recipes (PLM_RCP), specification (PLM_SPC) and document info record (PLM_DIR) business objects.

Note, that the Access Control Lists are not supported in SAP S/4HANA anymore.

**Required and Recommended Action(s)**

To check if Access Control Management is in use, see below the "How to Determine Relevancy" chapter. If you are using Access Control Management (Access Control Contexts and Access Control Lists) to control access to system data, you should consider or remodel it with ERP authorization, usually managed with PFCG roles.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>SAP Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>S4TWL - Access Control Management (ACM) - only relevant up to S/4HANA 1709 FPS0</td>
<td>2267842</td>
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</table>

<table>
<thead>
<tr>
<th>SAP Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>2212593</td>
</tr>
<tr>
<td>2267842</td>
</tr>
</tbody>
</table>
How to Determine Relevancy

This Simplification Item is relevant, if ACM objects are linked to unsupported Business Objects. Check if entries exist in DB Table /PLMB/AUTH_OBSID using transaction SE16.

This note is relevant from S/4HANA 1709 FPS1 onwards.

Other Terms

PLM, ACM, Simplification, Access Control Management

27.23S4TWL - Process Route in PLM Web UI

Application Components: CA-EPT-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2704849</td>
<td>S4TWL - Process Route in PLM Web UI</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Upgrade information

Solution

Description

The PLM reusable component **Process Route Web UI** is embedded in the following components:

- Material (PLM-WUI-OBJ-MAT)
- Document (PLM-WUI-OBJ-DMS)
- Change Number (PLM-WUI-OBJ-ECN)
- Material BOM (PLM-WUI-OBJ-BOM)
- Product Structure Management (PLM-WUI-OBJ-PSM)
- Recipe Development (PLM-WUI-RCP)
• Authorizations and Access Control Context (PLM-WUI-APP-ACC)

This reusable component is part of the compatibility package, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Process Route Web UI can be found under the ID 441. The alternative solution is to use the solution Change Record (CR) to manage the related processes of the objects above. The first version (1809) of the alternative solution Change Record (CR) is available now, and it is planned to continuously improve the new solution in the coming years. However, customers can continue to use the Process Route Web UI embedded in the Web UI for the objects above within SAP S/4HANA as long as the compatibility pack is supported.

For more detail regarding the alternative solution Change Record (CR), please refer to SAP Note 2268043.

Other Terms

Process Route Web UI; Change Record

27.24S4TWL - Classification - Data Cleanup before Migration

Application Components: CA-CL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
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<tr>
<td>Business Impact</td>
<td>2949845</td>
<td>S4TWL - Classification - Data Cleanup Before Migration</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA 1909 or higher on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

None

Solution

During an upgrade to S/4HANA 1909OP or higher version there is a conversion logic to fill the CLF_HDR database table.
This logic requires that the INOB table does not contain any duplicates. If the results of the pre-check contains any inconsistencies, please follow the steps in SAP Note 2948953.

**Other Terms**

Transition Worklist, SAP S/4HANA, on-premise, CLF_HDR

**27.25S4TWL - Behavior change for AVC Sales Order (SET) scenario configuration models**

Application Components: LO-VCH

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
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<td>Business Impact</td>
<td>3190519</td>
<td>S4TWL - Behavior change for AVC Sales Order (SET) scenario configuration models</td>
</tr>
</tbody>
</table>

**Symptom**

**Business Value**

In the future it shall be possible to safely reuse planned order / production order configuration models in bundles (configuration models with sales order (SET) configuration profiles) in advanced variant configuration (AVC).

**Description**

The safe reuse is enabled by introducing a form of encapsulation for object dependencies from planned order / production order configuration models if they are used in bundles / SETs. For a detailed explanation please see below.

**Reason and Prerequisites**

A planned order / production order configuration profile (PPO profile) is used for standard configuration models. Typically, configurable materials with this type of profile are configured and sold standalone. But it is also possible to bundle several such PPO models and to sell them together as a set. Technically, this is achieved by creating a configuration model with profile type sales order (SET) scenario and by using the PPO models as the leafs in the BOM.

**Example** If you want to sell a bundle consisting of a configurable laptop and some configurable accessories you create a sales order (SET) scenario configuration model
where the laptop and each of the accessories are a leaf item in the maxBOM of the bundle. Only the laptop and the accessories are produced, not the SET (requirements generation at component level).

Presently, the AVC supports only PPO and SET profiles as configurable components in bundles / SETs.

This reuse of PPO models in bundles, however, causes problems in the interpretation of object dependencies. More precisely, there are two distinct issues:

(1) If the PPO model contains an object dependency that refers to $parent / $root: Imagine, for example, that characteristic X shall take its value from characteristic Y in the PPO configuration model. This is frequently expressed via procedures of the form \$self.X = \$root.Y, where the assignment target is \$self and the "read"-characteristic is on \$root. In a PPO model without BOM explosion \$self and \$root refer to the same object and everything works as expected. But if the PPO model is configured as part of a bundle \$root suddenly refers to the root item of the bundle model - the object dependency has changed its meaning. Please note that this phenomenon is not limited to procedures or \$root. It affects all types of object dependencies and all uses of $parent and $root in the PPO configuration model (keep in mind that PPO models with BOM explosion are not supported in bundles yet).

(2) If the PPO model contains a constraint that relates characteristics from different classes, and those classes occur more than once in the bundle: Imagine that characteristic X from class CX shall be equal to characteristic Y from class CY (and vice versa). This is frequently formulated as a constraint

OBJECTS: CX IS_A (300) CX, CY IS_A (300) CY.

RESTRICTION: CX.X = CY.Y.

If the PPO model is now included in the bundle twice, the following issue occurs: If you manually set a value for X on the one instance of the PPO model, the constraint automatically assigns Y, but it does so on both the one and the other instance. This happens because constraints match globally, everywhere where the classes addressed occur. However, in our example, clearly this is an unwanted side-effect from one instance of the PPO model into the other. Please note that this phenomenon is not limited to including the same PPO model more than once into the bundle - it occurs everytime when different items in the bundle make use of the same classes addressed by a constraint on one of the items.

These issues are present in AVC's support of the sales order (SET) scenario today, just as they are present in LO-VC's support of the scenario. For the AVC we have decided to change this situation by introducing encapsulation for object dependencies for the reuse of PPO models in bundles. The new behavior can be described as follows:

- Object dependencies belonging to a PPO model in a bundle affect only the PPO model they belong to.

Please note that it is still possible to express relations between the different items in a bundle:
• Object dependencies belonging to the SET model affect all the items in the bundle / have full visibility.

Solution

How to Determine Relevancy

This note is relevant for you if you have (or are about to create) sales order (SET) configuration profiles for advanced variant configuration. This is the case if in table CUCO there is an entry with KDSET = X and PROC_MODE = A.

Transitioning

The new behavior does not become effective immediately. For a period of one S/4 release both behaviors are available so that remodeling is possible. Once you have adjusted your configuration models to the new behavior you can switch on the new behavior of AVC as follows:

• In S/4 OP go to transaction VCH_NEW_BUNDLING to switch on the new behavior.
• In S/4 Cloud enable toggle IDEA_CONFIGURE_NEW_BUNDLING in the feature management cockpit.

The new behavior becomes mandatory with the 2023 OP / the 2302 Cloud release of S/4 HANA.

Required and Recommended Actions

Please check your sales order (SET) scenario configuration models and adjust them as needed. We recommend you pay particular attention to the following points:

(1) If today you relate characteristics from the bundle with characteristics from the PPO model using $self, $parent and $root, the following idiom may be helpful for replacing the dependencies. Imagine you have a procedure for value inheritance on the PPO model that reads $self.X = $root.Y where (different from our previous example) X belongs to the PPO model, and Y to the bundle. Furthermore assume that $self refers to the instance of class C_COMP that is on position '0020' of the BOM of $root. Then the following constraint achieves a similar value inheritance:

OBJECTS: COMP IS_A (300) C_COMP, BUND IS_A (300) C_BUND.

CONDITION: PART_OF(COMP,BUND,'0020').

RESTRICTION: COMP.X = BUND.Y.
With this pattern, the value assignment works from top to bottom and vice versa. If you want inheritance to be only from top to bottom, use the following constraint pattern:

OBJECTS: COMP IS_A (300) C_COMP, BUND IS_A (300) C_BUND.

CONDITION: PART_OF(COMP,BUND,'0020').

RESTRICTION: COMP.X = BUND.Y IF SPECIFIED BUND.Y.

Note that using these idioms you get a constraint assignment where previously there was a procedure assignment. There may be situations where you want to keep authorship, for example, when inheriting a value as a default. Imagine that our previous example is changed to set a PPO model default from a bundle-level characteristic via a procedure $self.X ?= $root.Y on the PPO model. Here we recommend using a helper characteristic XHelper together with a constraint:

OBJECTS: COMP IS_A (300) C_COMP, BUND IS_A (300) C_BUND.

CONDITION: PART_OF(COMP,BUND,'0020').

RESTRICTION: COMP.XHelper = BUND.Y.

and a procedure $self.X ?= $self.XHelper.

(2) If you have allocated constraints that are meant to relate different items in a bundle to one of the PPO items instead of to the bundle itself we recommend moving the constraint to the bundle level.

(3) Selection conditions in the bundle model do not need adjusting. They are part of the bundle model, not the PPO model.

Other Terms

Advanced variant configuration, AVC, sales order (SET) scenario, bundling, object dependencies

27.26S4TWL - Project Management Integration with DMS

Application Components: PPM-PRO

Related Notes:
Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case. Integration to SAP Portfolio and Project Management - Project Management Integration with DMS is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Integration to SAP Portfolio and Project Management can be found under the ID 440.

Reason and Prerequisites

The integration of Project Management with SAP Document Management (DMS) is categorized as not part of the target architecture. To link existing DMS documents object links can be used. For document management either Project document management or integration with other tools, such as SAP Document Center or SAP Enterprise Product Development Collaboration can be used.

Solution

Review and evaluate the provided alternatives where applicable.

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, DMS, Portfolio and Project Management, PPM

27.27S4TWL - Product Designer Workbench

Application Components: LO-MD-PPW

Related Notes:
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA, the functions related to the Product Designer Workbench, previously accessible via transaction PDN, have been removed from SAP Product Lifecycle Management (SAP PLM). It is recommended that customers use the product structure management functions provided in SAP PLM for any related business requirements.

Business Process related information

Following objects are not available in SAP S/4HANA via transaction PDN

- iPPE-objects not type of CMP-application of the product structure
  - Colour nodes (type COL)
  - Generic nodes (type GEN)
  - Focus nodes (type FOC)
  - Concept nodes (type CON)
- Non-configurable part of the product structure, e.g. variant assembly
- Alternatives of the product structure

Following functionalities are not available

- Priority definition for nodes
- Variant differentiation

The automotive scenarios provided via transaction PPE are not affected. PPE is still available.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>PDN</th>
</tr>
</thead>
</table>

Required and Recommended Action(s)

Customers shall move to Product Structure Management for SAP S/4HANA, on-premise edition 1511.

Related SAP Notes

Custom Code related information

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267845</td>
<td>S4TWL - cFolders</td>
</tr>
</tbody>
</table>

**27.28 S4TWL - cFolders**

Application Components: PLM-CFO

Related Notes:

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With SAP S/4HANA, on-premise edition 1511 cFolders interfaces are not available. SAP recommends to evaluate SAP Enterprise Product Development as a substitute for selected collaboration scenarios.

No screen enhancements are known.

**Business Process related information**

It is no longer possible to exchange data (Documents, Materials, Bill of Materials, iPPE Objects) between PLM and cFolders.

**Required and Recommended Action(s)**
Customers have to establish data exchange processes with partners using other techniques like SAP Enterprise Product Development.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2224778 |

**27.29S4TWL - cDesk**

Application Components: CA-CAD

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
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<td>Business Impact</td>
<td>2267850</td>
<td>S4TWL - cDesk</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

CAD Desktop is not supported in SAP S/4HANA.

**Solution**

**Business Value**

Moving from the CAD-Desktop to SAP Engineering Control Center will provide additional value to customers:

- Customers will be enabled to manage growing product complexity and diversity
- Users will receive a much better user experience
- SAP Engineering Control Center is the platform to integrate mechanical and electrical CAD (Computer Aided Design) tools to enable Systems Engineering and Mechatronic Design.

**Description**

The CAD Integration in SAP PLM (cDesk) is not available in SAP S/4HANA. As an alternative customers can use SAP Engineering Control Center for SAP S/4HANA.
For more information see SAP Note: 2234028

**Business Process related information**

Customers will not be able to store CAD files directly in SAP DMS. Downstream processes like Visual Enterprise Function will be restricted.

Customers might use alternative solution SAP Engineering Control Center.

Process for CAD-Data Management (derive BOM, store drawings, generation/consumption of viewable) cannot be implemented.

| in SAP S/4HANA on-premise edition 1511 | CDESK, CDESK_CUS, CDESK_DEL_DBTRACE, CDESK_READ_DBTRACE, CDESK_SAVE_DBTRACE |

**Required and Recommended Action(s)**

Customers can move to SAP Engineering Control Center for SAP S/4HANA.

For more information on upgrading from CAD Desktop to SAP Engineering Control Center see SAP Note [2117843](https://wiki.scn.sap.com/wiki/x/gQrXHQ) or SAP SCN Wiki (URL: https://wiki.scn.sap.com/wiki/x/gQrXHQ)

**27.30S4TWL - Recipe Management**

Application Components: PLM-RM-REC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267863</td>
<td>S4TWL - Recipe Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

PLM Recipe Management related transactions are disabled

**Solution**
Description

SAP PLM Recipe Management (RM) is not available in SAP S/4HANA. This also affects PLM RM sub-functions such as Labelling, Trial Management and Handover to Manufacturing. The appropriate business requirements are covered within successor functionality SAP S/4HANA PLM Recipe Development (excluding Trial Management.)

The takeover of recipes from SAP Business Suite into SAP S/4HANA is supported, so the recipes are available and can be displayed after the system conversion to SAP S/4HANA. To use and further develop them, they need to be migrated via the migration function integrated into recipes in SAP S/4HANA PLM Recipe Development.

Business Process related information

Functions related to PLM Recipe Development (RM), such as the Recipe Workbench, Recipe, Labelling and Trial Management, are not available within SAP S/4HANA. The functional equivalent is SAP PLM Recipe Development (RD).

The customer needs to implement development processes based on SAP PLM Recipe Development which will change the user interaction with the software and might include minor process changes. It also allows users to leverage new capabilities of PLM Recipe Development to increase the software based support for the product developer.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>RMWB</th>
<th>Start Workbench</th>
</tr>
</thead>
<tbody>
<tr>
<td>BD_GEN_GRCP</td>
<td></td>
<td>General Recipe Distribution</td>
</tr>
<tr>
<td>BD_GEN_SRCP</td>
<td></td>
<td>Replicate Site Recipe</td>
</tr>
<tr>
<td>FRML02</td>
<td></td>
<td>Edit Recipe Formula</td>
</tr>
<tr>
<td>FRML03</td>
<td></td>
<td>Display Recipe Formula</td>
</tr>
<tr>
<td>FRML04</td>
<td></td>
<td>Formula Information System</td>
</tr>
<tr>
<td>MRTRS_START</td>
<td></td>
<td>Start MR Transformation</td>
</tr>
<tr>
<td>MRTRSC01</td>
<td></td>
<td>RFC Destination of GR</td>
</tr>
<tr>
<td>MRTRSC02</td>
<td></td>
<td>Master Recipe Generation</td>
</tr>
<tr>
<td>RMSL02</td>
<td></td>
<td>Change Label Set</td>
</tr>
<tr>
<td>RMSL03</td>
<td></td>
<td>Display Label Set</td>
</tr>
<tr>
<td>RMSTAT</td>
<td></td>
<td>Mass Status Change</td>
</tr>
</tbody>
</table>

| Customizing Transaction not available in SAP S/4HANA on-premise edition 1511 | ORCP*, RCP*, RMS*, RMX* |

Required and Recommended Action(s)

Projects need to migrate their processes from PLM Recipe Management functional capabilities to PLM Recipe Development functional capabilities.

Data Migration from RM recipes to RD recipes is an integrated part of the tool and can be executed after the system conversion SAP S/4HANA. For the detailed steps, follow the guides for the migration from PLM RM to PLM RD.
The specification object is not impacted by the switch over to PLM RD.

**Related SAP Notes**

| Conversion Pre-Checks | Does the customer use TRIAL MANAGEMENT  
| | Check which recipes, formulas and label objects need to be migrated  
| | Migration transactions - executable before or after system conversion  
| | /PLMI/RCP_MIGRATION  
| | Migration of Recipe  
| | /PLMI/RMSL_MIGRATION  
| | Migration of Label Sets |

**How to Determine Relevancy**

- The PLM Recipe Management is used if entries exist in DB Table RMSAT_HDR or RMXTT_TRIAL_HD (check with SE16)
- Use ST03N (on the production system, if possible) to check transaction profile of the complete last month, whether the following transactions have been used: RMWB, FRML02, FRML03, FRML04, RMSL02, RMSL03

**Other Terms**

PLM, Recipe Management, Simplification

**27.31S4TWL - Engineering Client Viewer (ECL)**

Application Components: CA-DMS-EAI

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2267864</td>
<td>S4TWL - Engineering Client Viewer (ECL)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**
Description

With SAP S/4HANA, on-premise edition 1511 the ECL-Viewer Functionality within SAP Product Lifecycle Management (SAP PLM) will no longer be available. Parts of the functionality and use cases can be covered by SAP Visual Enterprise Viewer.

Business Process related information

2D and 3D viewing in GUI transactions with ECL viewer will not be available any longer.

You may consider Visual Enterprise Viewer as an alternative in some transactions like e.g. Document Management and for some of the file formats for other file formats you may think about using the frontend application instead where appropriate.

Influence on Business Processes

None - technology simplification

Required and Recommended Action(s)

In case Visual Enterprise Viewer shall be used, check the appropriate customizing.

Related SAP Notes

| Custom Code related information | No influence expected since no open interfaces are available and the usage is stopped before launching itself. BAPI 'EASYDMS_ECL_OPEN_DOCUMENT' will issue an error if it is called remotely in custom code. |

27.32S4TWL - Easy Document Management (Easy DMS)

Application Components: CA-DMS-EUI, CA-DMS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
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<td>Business Impact</td>
<td>2267866</td>
<td>S4TWL - Easy Document Management (Easy DMS)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

With SAP S/4HANA, on-premise edition 1511, the Easy DMS Functionality within SAP Product Lifecycle Management (SAP PLM) will no longer be available.

Solution

Description

With SAP S/4HANA, on-premise edition 1511, the Easy DMS Functionality within SAP Product Lifecycle Management (SAP PLM) will no longer be available. As an alternative, customers using Easy DMS may consider to switch to SAP Document Center for SAP DMS.

However this product is not a replacement for Easy DMS in terms of features and needs evaluation by customers if it fits specific business processes. Refer to the attachment for more details on the solution.

Customers can also consider extended document management functionality with Manage Document Fiori application.

https://help.sap.com/viewer/4c3d1c6b3d744f84a4b4c273f979f430/1809.000/en-US/1bc746147317485ca9a0847be2d0668b.html

Business Process related information

| Transaction not available in SAP S/4HANA on-premise edition 1511 | EASYDMS_CUS |

Required and Recommended Action(s)

Switch to SAP Document Center for DMS which is powerful and simple.

Related SAP Notes

Other Terms

Easy DMS
28. Logistics – PM

28.1 S4TWL - Object List Number Field Length Extension


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2580670</td>
<td>S4TWL - Object List Number Field Length Extension</td>
</tr>
</tbody>
</table>

Symptom

You carry out a system migration from SAP ERP to SAP S/4HANA On-Premise or Cloud edition. In SAP ERP, you use the object list functionality in one or more logistical processes (maintenance order, service order, inspection lot, delivery, purchase, serial numbers). In this case, the following worklist item is relevant for the SAP S/4HANA data transfer:

Reason and Prerequisites

In SAP ERP, you use the object list functionality in the SAP standard system. You also access object lists in customer-defined programs or change object lists with customer-defined programs. It does not matter whether the customer-defined programs are called within SAP ERP (for example, Z reports) or from an external source via interfaces.

Solution

Description:

To enable the processing of even large object list volumes in a future-proof manner, SAP has decided to extend the object list numbers (table OBJK, domain OBJKN, data element OBJKNR) from the data format INT4 to the data format INT8. In addition to the table OBJK, this change affects all further tables that contain a field with a reference to the data element OBJKNR. For details, see the simplification item "SI10: Logistics_PM" (title: S4TWL - Object List Number Field Length Extension).

Business-process-related information

No effects on the standard SAP business processes are anticipated.

Required and recommended action(s)
Customer-defined programs must be adjusted accordingly, particularly in line with the changed interfaces in standard SAP programs (APIs, BAPIs, and so on).

If customer-defined tables with object list information have been created, the tables must be adjusted and the content must be converted accordingly. This should take place automatically using the SAP Upgrade Manager (SUM).

**System prerequisites:**

- Release SAP NetWeaver 7.50
- The embedded RFC library of SAP GUI has Release 7.50.

**Other Terms**

"SI10: Logistics_PM", OFLE, S4CORE

### 28.2 S4TWL - Obsolete predictive scenarios in PM

**Application Components:** PM-WOC, PM-FIO

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3259029</td>
<td>Deprecation of predictive scenarios PREDICTDAMAGECODE and PREDICTMAINTOBJECTPART</td>
</tr>
</tbody>
</table>

**Symptom**

The predictive scenarios PREDICTDAMAGECODE and PREDICTMAINTOJECTPART are deprecated without replacement with SAP S/4HANA 2022 FPS01 / SAP S/4HANA Cloud 2302.

This affects the 'Predicted Maintenance Object part' and 'Predicted Damage code' in the Malfunction data section in the details page of the app Perform Maintenance Jobs (F5104A).

**Reason and Prerequisites**

Functionality is deprecated.

**Solution**
Functionality is deprecated.

**Other Terms**

PAL, APL, F5104A

### 28.3 S4TWL - Obsolete POWL Application Manage Maintenance Plan and Item List (W0026)

**Application Components:** PM-PRM-MP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3372889</td>
<td>S4TWL - Obsolete POWL Application Manage Maintenance Plan and Item List (W0026)</td>
</tr>
</tbody>
</table>

**Symptom**

The Manage Maintenance Plan and Item List (W0026) app has been deleted and is no longer available on the SAP Fiori launchpad. You can use the following successor apps which are available on the SAP Fiori launchpad: Manage Maintenance Plans (F5325) and Manage Maintenance Items (F5356).

**Reason and Prerequisites**

Functionality is obsolete.

**Solution**

You can use the following successor apps which are available on the SAP Fiori launchpad: Manage Maintenance Plans (F5325) and Manage Maintenance Items (F5356).

**Other Terms**

W0026, The Manage Maintenance Plan and Item List, POWL
28.4 S4TWL - LIS in EAM

Application Components: PM-IS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267463</td>
<td>S4TWL - LIS in EAM</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

28.4.1 Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

28.4.2 Solution

Description

Remark: For the general approach regarding analytics within SAP S/4HANA see the following analytics simplification item in cross topics area.

The plant maintenance information system is part of the logistics information system LIS (Note: If you use a material number longer than 18 characters - see restriction note “Extended Material Number in LIS: SAP Note 2232362”). The LIS can be used to evaluate Equipments, Functional Locations, Notifications and Order. The classic ERP implementation of the LIS has some specifics:

- LIS operates on redundant data. Every business transaction not only updates the business documents, but also pre-aggregated data in LIS. Performance suffers, locking conflicts might occur, and memory is wasted
- LIS operates on pre-aggregated data. It is not possible to drill down into the individual business documents. Multi-dimensional reporting (aka Slicing and dicing) is only possible for dimensions provided in the pre-aggregated data
- LIS uses an old UI technology making multi-dimensional reporting clumsy
- LIS only supports material numbers with up to 30 characters
Future plant maintenance analytics will be based on HANA, CDS views aggregating transactional data dynamically, and powerful analytical UIs for multi-dimensional reporting. With this it will be possible to replace the current LIS. You will be able to use classic LIS and the future plant maintenance specific analytics in parallel for some time as long as you do not switch off the update of the LIS tables (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology). Once future plant maintenance analytics supports all your analytics requirements, you can switch off the update of the LIS tables. Once you have switched off updating LIS tables, you will notice the following improvements:

- Improved performance of many transactions (fewer tables to update, fewer locking conflicts)
- Less memory required

**Business Process related information**

**Required and Recommended Action(s)**

Invest reasonably in the LIS. The LIS is intended as an interim solution, which can be used until PM analytics in HANA has the required scope. This also allows you to migrate your business processes step by step from SAP ERP to SAP S/4HANA, on-premise edition 1511

**Custom Code Related information:**

Enhancements and modifications of the LIS will not work for the future analytic solution.

Custom reports reading one of the following tables will not work after the update of the LIS tables is switched off:

- S061 Location and planning
- S062 Object class and manufacturer
- S063 Damage analysis 30
- S064 Damage analysis
- S065 Object statistics
- S070 Breakdown statistics
- S114 Vehicle Consumption Analysis
- S115 Cost Evaluation
- S116 Customer Analysis

These tables will be replaced by CDS views providing more or less the same information but with different column names and structures.
28.5 S4TWL - Download Data in MS Access out of List

Application Components: PM-WOC-LE, PM-EQM-LE, PM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2270076</td>
<td>S4TWL - Download Data in MS Access out of List</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In most of our list in SAP GUI download to MS Access is offered. This functionality is not the target architecture, it’s recommended to download to MS EXCEL or Open Office instead (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). We plan to discontinue this functionality in one of the next releases.

**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

Do not Invest in the download to access functionality. Instead use download to Excel or Open Office. Within Excel / Open Office you can use the embedded tools for populating an DB.

**Custom Code Related information:**

In Case you use this functionality plan to populate your MS Access DB in a different way.
28.6 S4TWL - Scheduling of Maintenance Plan

Application Components: PM-PRM, PM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270078</td>
<td>S4TWL - Scheduling of Maintenance Plan</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Transaction IP30 is doing scheduling for Maintenance Plans. Within this scheduling outdated technology (Batch Input) is used.

Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is not available yet. We plan to discontinue this in one of the next Releases.

The new transaction for doing mass scheduling is IP30H which is optimized for HANA and is offering parallel processing at a much higher speed.

Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

Review your background Jobs which you most probably have scheduled periodically for transaction IP30 (Reports RISTRA20) and create new background jobs for IP30H (Report RISTRA20H).
28.7 S4TWL - Mobile Asset Management (MAM)

Application Components: PM-WOC-MB, PM

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270080</td>
<td>S4TWL - Mobile Asset Management (MAM)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Product Mobile Asset Management (MAM) functionality is not available with S/4HANA. For your mobility related requirement to manage maintenance management, please refer SAP roadmap.

With this change, we plan to discontinue the Objects mentioned in the piece list and delete these objects from SAP S/4HANA 2021 FPS1 onwards. Refer note 2250183 for further details.

Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

Please check if you use any of the objects mentioned in the piece list in any of your Custom Applications, reports etc; they will not work anymore and you have to create alternative arrangement.

28.8 S4TWL - Batch Input for Enterprise Asset Management (EAM)

Application Components: PM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270107</td>
<td>S4TWL - Batch Input for Enterprise Asset Management (EAM)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Transaction IBIP is using Batch Input as an technology to create transactional data for all EAM Objects (Equipment, Functional Location, Notification, Order, Maintenance Plan, Task List...). This is an outdated technology.

Within EAM we plan to discontinue to support this technology in a future release.

Batch Input programs may also no longer work as transactions may have changed functionality or may be completely removed within some areas.

Currently there is no functional equivalent for enterprise asset management (EAM) within SAP S/4HANA, on-premise edition 1511 (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is not fully available yet.).

Plant Maintenance offers a set of API’s which are supporting the creation / change of Plant Maintenance data like:

- Equipment
  - BAPI_EQUI_CREATE
  - BAPI_EQUI_CHANGE
  - BAPI_EQUI_GET_DETAIL
- Functional Location
  - BAPI_FUNCLOC_CREATE
  - BAPI_FUNCLOC_CHANGE
  - BAPI_FUNCLOC_GET_DETAIL
- Notification
  - BAPI_ALM_NOTIF_CREATE
  - BAPI_ALM_NOTIF_DATA_ADD
  - BAPI_ALM_NOTIF_DATA_MODIFY
  - BAPI_ALM_NOTIF_GET_DETAIL
• Maintenance Order
  o BAPI_ALM_ORDER_MAINTAIN

Please also review the following blogs in SCN


**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

Please check if you use Batch Input for creating / changing Plant Maintenance data. If Yes do not invest further in this kind of technology. Recommendation within EAM is to use the API’s wherever possible.

**28.9 S4TWL - Changes In List Reports For Order and Notification**

Application Components:PM-WOC-MN, PM-WOC-MO, PM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270108</td>
<td>S4TWL - Changes In List Reports For Order and Notification</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

1. Prerequisite for executing the list reports for orders and notifications in SAP S/4HANA are the performance improvements described in notes 393393 and 551133. The reports listed there need to be executed.
2. Within Enterprise Asset Management we plan to discontinue IW37, IW49 in a future release. It is recommend to use transaction IW37n, IW49n instead.

**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

1. Implement the notes if needed and run the reports 'QM_PHASE_FILL' and 'RIAFVC_IPHAS_FILL' before the upgrade to SAP S/4HANA if not done yet.
2. In case you use the transaction IW37, IW49, please use IW37n or IW49n instead.

**28.10S4TWL - WebDynpro Application for Maintenance Planner (<= EhP4)**

Application Components:PM

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270110</td>
<td>S4TWL - WebDynpro Application for Maintenance Planner (&lt;= EhP4)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. You are using PM Functionality Maintenance Planner, Technician or Supervisor delivered (<= EhP4). The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Old WD Application covering Maintenance Tenchnician, Planner, and Supervisor delivered in Business Suite in Release <= EhP4 is not the target architecture (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.).

Maintenance Technician role is obsolete for S4 HANA release.

Use the new Maintenance Planner and Maintenance Worker Roles available in S/4 HANA (Business Package for Maintenance Worker 1.61).
Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

Activate the below Business Functions to get the full functionality of Maintenance Planner and Maintenance Worker Role.

- LOG_EAM_SIMPLICITY_2
- LOG_EAM_SIMPLICITY_3
- LOG_EAM_SIMPLICITY_4
- LOG_EAM_SIMPLICITY_5
- LOG_EAM_SIMPLICITY_6

Other Terms

Maintenance Planer, Technician, Supervisor, S4HANA, Business Package for Maintenance Worker 1.61,

28.11S4TWL - Enterprise Search in EAM

Application Components:PLM-WUI-APP-SEA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270123</td>
<td>S4TWL - Enterprise Search in EAM</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, on-premise edition 1511 the Enterprise Search models are now replication free search models (using HANA DB tables instead) within SAP Enterprise Asset Management SAP EAM).

Business Process related information
All related EAM search models have been transferred to replication free search models.

As well within the EAM Web Dynpro the search models are now used for certain object within the value help which allows user to sophisticatly search for the corresponding values.

For PLM search models please review Note 2217234

**Required and Recommended Action(s)**

1. You have to activate the Enterprise search models
   Please check our How To Guide in SCN. https://blogs.sap.com/2016/07/01/eam-enterprise-search-how-to-guide/
   Here you find all Configuration capabilities within Enterprise search and it will guide you through how you can change Enterprise Search to your specific needs.

2. In case you intend to use the value help within EAM Web Dynpro App’s please refer to
   Innovation Discovery: Enterprise search functionality and a master data information center within the SAP Enterprise Asset Management solution chapter
  Enterprise search in the Input Help you find a ppt with the configuration steps. https://zinnovationdiscovery-supportportal.dispatcher.hana.ondemand.com/#/innovation/6CAE8B27FCC31ED5A995CA1EED5A222A

3. In case you have maintained special setting for Value help in Customizing under Plant Maintenance -> Maintenance Roles -> Maintenance Worker -> Configure Search help Assignment
   o check if value help is sufficient for finding the right values
   If yes delete corresponding entry
   If no leave this as it is, In this case the value help you have defined will be used

**28.12S4TWL - SAP Graphics in EAM Transactions**

Application Components: PM

Related Notes:

<table>
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<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2482659</td>
<td>S4TWL - Usage of SAP Business Graphics</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The graphical output in Enterprise Asset Management transactions using SAP Business Graphics, e.g. in transaction IP19, is not available in SAP S/4HANA. Generally SAP Business Graphics used in Plant Maintenance applications are no longer supported in SAP S/4HANA. The attached pdf gives some of the examples where these charts are used

Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

Please use the tabular display options.
29. Logistics – PP

29.1 S4TWL - ERP Line-Balancing and Sequencing

Application Components: PP-FLW-SEQ, PP-FLW-LDS, PP-FLW

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268084</td>
<td>S4TWL - ERP Line-Balancing and Sequencing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

ERP Line-Balancing and Sequencing is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, ERP Line-Balancing and Sequencing can be found under the ID 448.

This means that you need to migrate from ERP Line-Balancing and Sequencing to its designated alternative functionality PPDS Model mix planning before expiry of the compatibility pack license. This note shall provide an overview on the scope of ERP Line-Balancing and Sequencing which is going to expire with the compatibility pack license, how this maps to the designated alternative functionality, if this alternative functionality is already available or when it’s planned to be available and how you can migrate to the alternative functionality.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

Business Process related information

Sequence planning determines the production sequence of planned orders on assembly lines operating at a constant rate or takt. It is part of repetitive manufacturing and only suitable for repetitive manufacturing planned orders.
SAP recommends to perform sequencing planning for assembly lines with PPDS. Sequencing in PPDS is superior to sequencing in the classic ERP transactions for the following reasons:

- PPDS sequencing in the short term horizon works together with PPDS model-mix planning for the mid-term horizon
- You can define restrictions like "Minimum distance restrictions between two units with a certain characteristic" or "At most x units per day with a certain characteristic"
- PPDS optimizers can compute production sequences that minimize violations of restrictions

PPDS is an integral part of S/4HANA on-premise edition. You do not have to install a separate APO system.

Please refer to [PPDS Model mix planning](https://help.sap.com) in help.SAP.com to get an idea of PPDS sequence planning.

**Required and Recommended Action(s)**

As ERP Line-Balancing and Sequencing can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

**Custom Code related information**

Sequence planning in PPDS is an all-new implementation. Any enhancements or modifications of ERP sequence planning will not work if PPDS sequence planning is used.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, ERP Sequence planning, ERP Line-Balancing, LAS1, LAS2, LAS3, LAS4, LDD1, LDD2, LDD3, ...
29.2 S4TWL - MRP in HANA

Application Components: PP-MRP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268085</td>
<td>S4TWL - MRP Live on SAP HANA - MD01N</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

MRP Live is a synonym for MD01N and MRP Live on SAP HANA

Solution

Description

Production planners have to make sure that material is available when needed. MRP assists production planners with this task. The MRP run determines expected material shortages and creates planned orders, purchase requisitions, or delivery schedule lines to cover the expected material shortages. A shortage exists for a material if the material is subject to demand-driven planning and if the total quantity of material requirements (sales orders, stock transfer requirements, production requirements, and forecast requirements) up to a certain point in time exceeds the total quantity of material receipts (inventory, production orders, purchase orders, delivery schedule lines, firmed planned orders, and firmed purchase requisitions).

SAP S/4HANA features MRP Live (MD01N); a new MRP run optimized for SAP HANA. MRP Live reads material receipts and requirements, calculates shortages, and creates planned orders and purchase requisitions all in one database procedure. This minimizes the volume of data that has to be copied from the database server to the application server and back, which considerably improves performance. MRP Live (MD01N) has some additional advantages including the following, for example:

- The definition of the planning scope is more flexible. MRP Live allows you to plan a set of materials with all components, materials for which a certain production planner is responsible, or one material across all plants.
If a material is transferred from one plant to another then the stock-transfer requirement is not known in the supplying plant until after the material has been planned in the receiving plant. MRP Live determines the sequence in which materials have to be planned across several plants.

- MRP Live is a prerequisite for the future production planning and detailed scheduling PP/DS solution in SAP S/4HANA.

Classic MRP is still available in SAP S/4HANA. MRP lists are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, MRP lists can be found under the ID 443.

**Business Process related information**

MRP Live differs from classic MRP in the following aspects:

- MRP Live does not write MRP lists.
- Multi-level, make-to-order planning (transaction MD50) is not optimized for HANA.
- Individual project planning (transaction MD51) is not optimized for HANA.
- Master production scheduling can be done in MRP Live using Material Scope "S".
- The creation indicator for purchase requisitions is not available in MRP Live. MRP Live always creates purchase requisitions if the material is procured externally.
- The creation indicator for delivery schedule lines is not available in MRP Live. MRP Live always creates delivery schedule lines if a valid delivery schedule exists.
- **MRP Live has also some restrictions. Details are explained in note 1914010.**

**MRP Lists**

MRP lists were intended for checking the MRP result. MRP lists were used to find materials with issues quickly. MRP lists are snapshots of the material supply and demand situation at the time of the last MRP run. The snapshot is often outdated. With HANA, stock/requirements lists can be read with high speed. The MRP apps determine materials with issues in real-time. In SAP S/4HANA there is no need for outdated MRP lists.

**Planning of individual make-to-order sales orders and projects**

Multi-level, make-to-order planning was a performance measure only. Rather than planning all planning segments, the system only planned a selected planning segment.
Thanks to the speed of HANA, it is no longer required to support this performance measure. This also makes the MRP run simpler.

Creation indicators

Classic MRP has a complicated set of rules for instructing the MRP run to create either purchase requisitions or planned orders for externally procured materials. A similar set of rules instructs classic MRP to create delivery schedule lines, purchase requisitions, or planned orders for externally procured materials with valid delivery schedules. Creation indicators are defined in MRP groups, on the initial screen of the MRP run, and default values are defined in the code. This is a complex logic with very limited business value. Planned orders for external procurement have to be converted into purchase requisitions eventually. Creating planned orders first and converting them into purchase requisitions is an unnecessary process step.

Creation indicators were originally intended to separate the responsibilities of production planners and purchasers. Production planners were responsible for planned orders and purchasers were responsible for purchase requisitions. Today the roles of production planners and purchasers have changed. Purchasers very often focus on negotiating contracts with suppliers while the operative creation of purchase requisitions and purchase order handling is left to material planners and MRP.

Therefore MRP Live always creates delivery schedule lines for externally procured material with valid delivery schedules and it creates purchase requisitions for all other externally procured material.

The sourcing BAdI PPH_MRP_SOURCING_BADI => SOS_DET_ADJUST (AMDP BAdI) allows you to change the MRP element type of a material receipt to be created by MRP. Implement this BAdI if you want MRP Live to create planned orders rather than purchase requisitions for externally procured materials (see note 2883845 for example).

Not relevant for S/4HANA Essentials Edition: Creation indicator can still be used if the material is planned using classic MRP transactions. Furthermore the creation indicators maintained in MRP groups will be considered, if the MRP Live forces a material to be planned using classic MRP.

Required and Recommended Action(s)

You can start using MRP Live rather than the classic MRP at any time. Therefore, there is no need to become active on the start release. Before you start using MRP Live, check the following:

- Re-implement BAdI implementations and extensions of the classic MRP as AMDP BAdI (see "BAdI related information" below for further details).
• Make yourself familiar with the MRP apps and check whether they can be used as a successor to MRP lists if you used MRP lists in the past.

Please note that it might be necessary to adjust certain BAdI implementations even if you still use classic MRP. This is since the data reading processes of some classic MRP transaction (like MD01, MD02, MD03, etc.) have been optimized for HANA database accesses. That means even the classic MRP reads material receipts and requirements using an ABAP managed database procedure (AMDP). This HANA optimized data reading in classic MRP transaction is not switchable in SAP S/4HANA as it was possible in SAP ECC 617 and 618. For further details regarding necessary BAdI adjustments see "BAdI releated informations" below.

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>Related information</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAdI related information</td>
<td>Many calculations in MRP Live are implemented in SQLScript/CDS views/AMDPs running on the database server as opposed to classic ABAP code, which is performed on the application server. Enhancements or BAdI implementations of the classic MRP run does not work with MRP Live if the material is supported/planned within MRP Live. Please note: MRP Live can force materials into classic MRP if materials use a setup which is not supported in MRP live.</td>
</tr>
</tbody>
</table>

Example: MRP Live is started for 2 materials A and B. Material A uses a setup which is supported in MD01N. Therefore the new BAdIs (see table below) have to be used for material A. The second material B is not supported in MD01N and the planning run route this material B into classic MRP. Therefore the existing classic BAdI implementation still can be used for material B. This refers only to all BAdI implementations which influence the planning process and storaging behavior of the classic MRP.

Existing BAdI implementations which influence the data reading process of the classic MRP (e.g. BAdI MD_CHANGE_MRP_DATA) will or won't be supported in S4HANA depending on the used planning transactions:

• If the planning transactions are not optimized for HANA (like MD50, MD51 or all LTP planning transactions), then the classic BAdIs/extension with their implementations will still be supported.
• If the planning transactions are optimized for HANA (like MD01, MD02, MD03, materials forced to classic MRP by MRP Live), then it is required to use an alternative ABAP BAdI. In this case BAdI MD_ADD_ELEMENTS has to be used to adjust the data determined by the HANA optimized reading processes.

A new set of AMDP BAdIs will be available for MRP Live from SAP S/4HANA on-premise edition 1603. BAdI implementations of the classic MRP should be translated into AMDP BAdI implementations if still required. This affects the following BAdIs:
<table>
<thead>
<tr>
<th>Purpose</th>
<th>Classic BAdI or extension</th>
<th>AMDP BAdI</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcontracting logic</td>
<td>MD_SUBCONT_LOGIC</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td>See simplification item 2.1.11.1PP-MRP - Subcontracting Use BAdI MD_ADD_ELEMENT S for classic MRP transactions which are optimized for HANA</td>
</tr>
<tr>
<td>Reading material receipts and requirements</td>
<td>MD_CHANGE_MRP_DATA</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td></td>
</tr>
<tr>
<td>Scheduling of stock transfer requirements</td>
<td>MD_STOCK_TRANSFER</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td></td>
</tr>
<tr>
<td>User-defined MRP elements in MRP Planned independent requirement consumption</td>
<td>MD_ADD_ELEMENTS</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td></td>
</tr>
<tr>
<td>Change planning parameters</td>
<td>MD_MRP_PARAMETERS</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td></td>
</tr>
<tr>
<td>Change MRP list</td>
<td>MD_MRP_LIST</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td></td>
</tr>
<tr>
<td>Change purchase requisitions created by MRP</td>
<td>MD_PURREQ_CHANGE, MD_PURREQ_POST</td>
<td>PPH_MRP_RUN_BADI =&gt; PURREQ_BEFORE_UPDATE_ADJUST</td>
<td>MRP lists are not available by MRP Live</td>
</tr>
<tr>
<td>Change planned orders created by MRP</td>
<td>MD_PLDORD_CHANGE, MD_PLDORD_POST</td>
<td>PPH_MRP_RUN_BADI =&gt; PLANORD_BEFORE_UPDATE_ADJUST</td>
<td></td>
</tr>
<tr>
<td>Source of supply determination in MRP</td>
<td>MD_MODIFY_SOURCES, MD_MODIFY_PROD</td>
<td>PPH_MRP_RUN_BADI =&gt; SOS_DET_ADJUST</td>
<td>See simplification item 2.1.11.7Simplified Sourcing The function from BAdI MD_EXT_SUP cannot be</td>
</tr>
<tr>
<td></td>
<td>MD_EXT_SUP (see comment)</td>
<td>PPH_MRP_RUN_BADI =&gt; MDPS_ADJUST</td>
<td></td>
</tr>
</tbody>
</table>
MD01N supports stock transfer processes from plant to MRP areas in standard. Stock transfer processes between different MRP areas in the same plant are not possible in MRP Live with a BAdI implementation (SAP note 3233524). Corresponding materials can be set using transaction MD_MRP_FORCE_CLASSIC in such a way that they are automatically redirected to classic MRP in MRP Live.

<table>
<thead>
<tr>
<th>Package size for parallel processing</th>
<th>MD_MRP_RUN_PARALLEL</th>
<th>MRP_DISPATCHER_BADI =&gt; DISPATCH&gt;Create_TASK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material selection for MRP run</td>
<td>Extension M61X0001</td>
<td>PPH_MRP_NETTING_BADI =&gt; AT_PLANNING_FILE_ENTRIE_S_READ</td>
</tr>
</tbody>
</table>

Table related information MRP live is still writing most of the classic ERP tables. Most importantly planned orders, purchase orders, and delivery schedule lines are still written into the same tables. The classic MRP was writing data into the following tables, which are no longer populated by MRP live. If your custom code reads data from these tables, then it should be adjusted to read data from the new data source when moving from the classic MRP to MRP live.

<table>
<thead>
<tr>
<th>Purpose</th>
<th>Old Table</th>
<th>New data source</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials MRP was not able to plan</td>
<td>MDKP with selection group 8 populated</td>
<td>Table PPH_DBVM with MSGID populated</td>
<td></td>
</tr>
<tr>
<td>Various material master attributes controlling MRP functions such as lot-sizing</td>
<td>MDKP</td>
<td>Table MARC</td>
<td></td>
</tr>
<tr>
<td>End of MRP planning time fence</td>
<td>MDKP field FIXTR</td>
<td>Add MARC-FXHOR to PPH_DBVM-DSTMP</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MRP list</th>
<th>MDTB</th>
<th>call function module MD_MDPSX_READ_API</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRP planning file</td>
<td>DBVM, MDVM</td>
<td>Table PPH_DBVM</td>
</tr>
<tr>
<td>MRP runtime statistics</td>
<td>MONI</td>
<td>Table PPHMRPLOGITEM</td>
</tr>
</tbody>
</table>

Other Terms

MRP Live, MD01n

29.3 S4TWL - Planning File

Application Components: PP-MP-LTP, PP-MRP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268088</td>
<td>S4TWL - Planning File</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Context

MRP calculations are complex and therefore an MRP run can be lengthy. An important means to improve MRP performance is net change planning. An MRP running in net change planning mode only plans materials that have experienced a relevant change since the previous MRP run. A material has to be planned by the next MRP if the material was received or issued, if a material requirement like, for example, a sales order was changed, or if master data like the BOM or the product master was changed. The planning file stores the materials that have to be planned by the next MRP.

Description

The new planning file does not have columns for low level code and record type. This information does not have to be copied from the material master into the planning file.
when updating the planning file. The MRP planning run reads the low level code of all materials requiring planning from the material master.

Reason

In SAP S/4HANA the planning file was optimized for simplified update logic, consistency and for update performance.

Business Process related information

In the classic Business Suite, reports RMMDVM10 and RMMDVM20 made a first setup of planning file entries and checked planning file consistency for operative planning. In SAP S/4HANA, run report PPH_SETUP_MRPRECORDS instead. For long-term planning, the reports RMMDVL10 and RMMDVL20 are replaced by the report PPH_SETUP_MRPRECORDS_SIMU.

Besides the setup reports, which trigger a new planning (NETCH = X) for all objects and also do a consistency check automatically, there are conversion reports PPH_CONVERT_MRPRECORDS and PPH_CONVERT_MRPRECORDS_SIMU, which take over the change flags (NETCH, RESAL, etc.) from the old database table DBVM. In this context it should be checked with the consistency check report RMMDVM10 first, whether the old entries in DBVM are consistent and then conversion can be done.

SAP S/4HANA, on-premise editions no longer supports net change planning in the planning horizon (processing key NETPL). MRP always determines material shortages for all known material requirements. MRP can no longer cover only the material shortages inside a limited planning horizon. This is valid both for the classic MRP and MRP Live. For details refer to simplification item 2.1.11.35 Planning Horizon.

| Transaction not available in SAP S/4HANA on-premise edition | MDAB, MDRE (batch versions of above reports for operative planning file entries replaced by PPH_MDAB).<br>MSAB, MSAC (batch version of above reports for long-term planning. Planning file entries replaced by PPH_MSAB and PPH_MSAC). |
| Reports (not available in SAP S/4HANA) | RMDBVM00, RMDBVM10 (for conversion MDVM/MDVL into DBVM/DBVL and back).<br>RMMDVM10, RMMDVM20 (creation and consistency check for MDVM/DBVM), RMMDVL10, RMMDVL20 (creation and deletion for MDVL/DBVL). |

Required and Recommended Action(s)
No actions are required on start release. After the system conversion, you should run report PPH_SETUP_MRPRECORDS to populate the new planning file table with operative MRP records (PP-MRP) and the report PPH_SETUP_MRPRECORDS_SIMU for simulative MRP records (PP-MP-LTP). Alternatively, you can also use the conversion reports PPH_CONVERT_MRPRECORDS and PPH_CONVERT_MRPRECORDS_SIMU.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Code related information</td>
<td>The original planning files MDVM/MDVL and DBVM/DBVL no longer exist. They were replaced by the new planning file PPH_DBVM.</td>
</tr>
<tr>
<td></td>
<td>If your custom code creates planning file entries directly by updating or inserting into tables MDVM, MDVL, DBVM, or DBVL, then you have to adapt the custom code and call function module DISPSATZ_ERSTELLENI instead. If your custom code only reads from the tables DBVM or DBVL, no adaption is necessary. Queries from table DBVM or DBVL will be redirected to the new planning file PPH_DBVM by compatibility views.</td>
</tr>
<tr>
<td></td>
<td>See note 2227059</td>
</tr>
</tbody>
</table>

**29.4 S4TWL - Total Dependent Requirements**

Application Components: PP-MRP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268089</td>
<td>S4TWL - Total Dependent Requirements</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

**Context**

MRP runtime depends among many other factors on the number of material receipts and requirements that have to be read to compute a material's shortages. Materials, which are
component of very many BOMs, can have many thousands of dependent requirements. Total dependent requirements reduced the number of dependent requirements, which had to be read by MRP at the expense of possible locking conflicts when updating the total dependent requirements.

**Description of Simplification**

HANA is very good at summing up many rows in a table. There is no need to compute and write totals every time a single record is changed. Neither MRP Live nor the classic MRP support total dependent requirements in SAP S/4HANA.

**Reason**

BOM explosion creates dependent requirements for all component materials needed to manufacture a material. Total dependent requirements create locking problems if the same component material is used in the BOM of different materials. MRP live creates very many planned orders in parallel. Locking conflicts would impair parallel processing and total MRP runtime.

**Business Process related information**

Business processes are not changed. MRP reads individual dependent requirements rather than total dependent requirements.

**Required and Recommended Action(s)**

Follow the instructions for "Clean up Total Requirements" in the SAP help portal (Link)

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>Custom code reading one of the tables RQIT, RQHD, or MDRI will no longer work. Read table RESB instead.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>See SAP Note 2229126</td>
</tr>
</tbody>
</table>

**29.5 S4TWL - Forecast Based Planning**

Application Components: PP-MRP, MM-CBP-CBP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268095</td>
<td>S4TWL - Forecast Based Planning</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In forecast based planning (MRP type VV), the MRP creates planned orders or purchase requisitions if total forecast demand up to a certain point of time exceeds the total firmed receipt quantity up to the same point of time. The total firmed receipt quantity includes inventory, production orders, purchase orders, firmed planned orders, and firmed purchase requisitions. Forecast based planning is a simple planning procedure which does not require managing planned independent requirements. For Forecast based planning the following things need to be considered:

- MRP live does not perform forecast based planning in HANA but sends the affected materials into the classic ABAP planning procedure. This results in a performance loss.
- Forecast demand and planned independent requirements are semantically very similar. Planned independent requirements can be created from forecast demand
- The system records all changes of planned independent requirements which facilitates reporting

Business Process related information

If you decide to replace forecast based planning by MRP type planning, proceed as follows:

- Step 1: Convert forecast requirements into planned independent requirements (PIR)
- Step 2: Change MRP type VV to one of the MRP types PD, P1, P2, P3, or P4

Using PIRs instead of forecast demands provides several advantages in S/4:

- SAP provides APIs to handle PIRs.
- SAP provides with new Fiori-apps to handle PIRs (e.g. 'Maintain PIRs').
- PIRs allow for a consumption with sales demands and dependent requirements or stock transfer demands.
- It is possible to split PIRs.
- It is possible to re-organize unused PIR demands.
- For PIRs the history can be recorded.

A detailed description of all actions which can be executed for Step 1 can be found in the How-To-Guide mentioned in note 2844909 - Data Transfer of Forecast Demands to Planned Independent Requirements (PIRs) and PIR Reorganization ( - the document
focuses on cloud systems, but the corresponding classical report or transactions are named as well.

**Required and Recommended Action(s)**

Forecast Based Planning is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Forecast Based Planning can be found under the ID 450.

As Forecast Based Planning can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

### 29.6 S4TWL - Release status for different RFC function modules revoked

Application Components: PP, SFC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268112</td>
<td>S4TWL - Release status for different RFC function modules revoked</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

RFC function modules use dictionary structures to type exporting or importing parameters. Some of the fields in the dictionary structures have been extended (for example the material ID fields, which are usually named "MATERIAL" and typed with domain "MATNR“). It was not possible to keep the short version of these fields and add an additional longer version as the same dictionary structures are also used in very many...
internal interfaces. Therefore the released status of the following RFC function modules was revoked.

<table>
<thead>
<tr>
<th>Function Module</th>
<th>Structure</th>
<th>Affected fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>COCF_SN_CREATE_EAM</td>
<td>RIQS5</td>
<td>BAUTL, MATNR, EMATNR, RM_MATNR</td>
</tr>
<tr>
<td>COCF_SN_CREATE_PP</td>
<td>RIQS5</td>
<td>BAUTL, MATNR, EMATNR, RM_MATNR</td>
</tr>
<tr>
<td>COCF_SN_GET_LIST_EAM</td>
<td>COCF_S_SN_LIST_FLAT</td>
<td>MATNR, EMATNR, RM_MATNR</td>
</tr>
<tr>
<td>COCF_SN_GET_LIST_PP</td>
<td>COCF_S_SN_LIST_FLAT</td>
<td>MATNR, EMATNR, RM_MATNR</td>
</tr>
</tbody>
</table>

**Business Process related information**

No influence on business processes expected

**Required and Recommended Action(s)**

Check custom code

**How to Determine Relevancy**

If you call the above mentioned RFC function modules from within custom code and if you do not use data elements typed with domain "MATNR" then you have to adjust the data types used in the custom code. See note 2199837

**29.7 S4TWL - Computer Aided Processing Planning (CAP)**

Application Components:PP-BD-CAP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268114</td>
<td>S4TWL - Computer Aided Processing Planning (CAP)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Context

Standard value calculation with "Computer Aided Process Planning" CAPP is intended to compute standard values and processing durations for production operations based on work center or product properties. CAPP allows to define formulas, methods, and procedures to this end.

In general standard values can be determined in several ways:

- Estimating
- Polling, sampling, and statistical procedures
- Time and motion study (REFA in Germany)
- Methods-time measurement MTM
- Period time sheets

Standard value calculation with CAPP can be used to compute standard values depending on variables, which can be material attributes, routing attributes, or manually entered variables.

- CAPP has been used to adjust standard values to the variant configuration of the manufactured material.
- CAPP has been used to add work center or standard text specific surcharges.
- CAPP has been used to multiply standard values for duration with a season factor.
- CAPP has been used to multiply standard values with product dimensions.

The example given in various documents is the following:

MachineTime = NumberOfDrillings * DrillDepth / DrillSpeed.

Obviously parameters like NumberOfDrillings or DrillDepth are neither material nor routing attributes. Therefore, all parameters would have to be entered manually during production order creation.

Description

In SAP S/4HANA CAPP is available, but defined as "Functionality Deprecated". Functional equivalent is not available.

Required and Recommended Action

You can continue to use CAPP after migrating to SAP S/4HANA.

Future Direction
CAPP formulas can contain variables, which must by specified by the user. The classic production order UI prompts the user to specify such variables. In future releases SAP intends to provide more user-friendly Fiori UIs for production orders. When using Fiori-UIs the backend cannot prompt the user to enter data. CAPP cannot be supported in combination with FIORI production order UIs.

S/4HANA processes focus on automatic conversion of planned orders into production orders. CAPP variables cannot be entered during automatic planned order conversion.

In S/4HANA Manufacturing for Production Engineering and Operations PEO, routing operations are detailed by operation activities explaining to production operators the work that has to be done in more detail. All operation activities of one operation are produced without interruption by other operations in the same work center and are subject to the same wage group, business process, and incentive wage policy. Therefore scheduling and costing will still be on operation level but standard value calculation could refer to operation activity data rather than CAPP data. The total duration of an operation for example is the sum of the durations of its operation activities.

SAP advocates open standards. Open standards for estimating standard values are time studies, MTM, REFA, and others. To calculate standard times using one of the established methods reach out to one of the following SAP partners:

https://www.dmc-group.com/dmc-ortim/produkte/arbeitsplanung/capp-knowledge

https://mtm.org/software/mtm-software

https://refa-consulting.de/refa-software

Other Terms

CE11. CE12, CE13, CE21, CE22, CE23, CE31, CE32, CE33, CE41

29.8 S4TWL - ABAP-List-Based PI-Sheets

Application Components:PP-PI-PMA-MGT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268116</td>
<td>S4TWL - ABAP-List-Based PI-Sheets</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Starting with R/3 4.6 C the previously used ABAP-list-based process instruction sheets have been replaced by browser-based PI sheets (see SAP Note 397504 - Support for ABAP-list-based PI sheet).

The functionality of the ABAP-list-based PI sheets has been partly deactivated and underlying code is only partially available in SAP S/4HANA on-premise. ABAP-list-based process instruction sheets will be carved out fully in a future release.

You can use browser-based PI sheets in SAP S/4HANA, on-premise edition for the time being.

New capabilities for PI sheets will be offered as part of SAP Digital Manufacturing Cloud as the functionality of control recipes and process instruction in S/4HANA is not considered as future technology.

Business Process related information

Customers that used ABAP-list-based PI sheets temporarily have to switch to browser-based PI sheets: The corresponding control recipe destinations of type 1 (ABAP-list-based PI sheets) have to be replaced with control recipe destinations of type 4 (browser-based PI sheets). This mostly affects the used master recipes and process orders.

Browser-based PI sheets offer a better support of the business processes. No effects on business processes are expected.

Transactions CO56 and CO58 have been deactivated in SAP S/4HANA, on-premise edition.

Required and Recommended Action(s)

Start exchanging control recipe destinations of type 1 (ABAP-list-based PI sheets) with control recipes of type 4 (Browser-based PI sheets). Create and send test control recipes for the exchanged control recipe destinations. Check the browser-based PI sheets that are generated from the test control recipes.

Recommended:
- Use XStep-based process instructions instead of characteristic-based process instructions
- Replace generation scopes and filters that are defined in customizing (of the control recipe destination) with XStep-based generation scopes and valuation symbols

For mid- to long-term planning consider new capabilities for PI sheets in SAP Digital Manufacturing Cloud.

### 29.9 S4TWL - ANSI/ISA S95 Interface

Application Components: LO-S95

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2268117</td>
<td>S4TWL - ANSI/ISA S95 Interface</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Usage of the ANSI /ISA S95 interface is not possible in S/4HANA. Use MES Integration or the POI Interface instead.

**Business Process related information**

Usage of the ANSI/ISA S95 interface is not possible anymore.

**Required and Recommended Action(s)**

Use the POI interface or the MES interface to connect SAP S/4HANA to an MES system or a planning system. For details, see the MES integration documentation (link) and the POI documentation (link).
29.10S4TWL - PP-MRP - Subcontracting

Application Components: PP-MRP

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tr>
<td>Business Impact</td>
<td>2268044</td>
<td>S4TWL - PP-MRP - Subcontracting</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

Master data maintenance has been simplified and offers the following benefits:

- Provide the sophisticated planning functionality for subcontracting components using subcontracting MRP area without the necessity to maintain appropriate material master data
- Reduction of modeling alternatives for the planning and evaluation processes for the procurement of subcontracting components

**Description**

**Context**

SAP ERP had three different ways of planning parts to be provided to a subcontractor:

- Planning subcontracting demand together with internal demand in the make-to-stock planning section (3.0-logic)
- Separating subcontracting demand and stock into single subcontracting planning sections (one section per subcontractor) and planning uncovered subcontracting demand together with internal demand in the make-to-stock planning section (4.0-logic)
- Planning separately the demand of every subcontractor by means of subcontracting MRP areas (available from SAP ERP release 4.5)

**Description of Simplification**
In SAP S/4HANA on-premise edition 1511, the 4.0 logic was removed while the 4.5 logic was simplified. The SAP S/4HANA MRP uses default planning parameters if MRP-area-specific material master records do not exist. You only have to create an MRP area for every subcontractor. Of course, it is still possible to create MRP area/supplier-specific material master data if required.

Reason

This simplification has the following advantages:

- Separate planning of every subcontractor is possible without having to create an MRP-area-specific material master record.
- The planning logic is simplified. There are two rather than three different ways to plan parts to be provided to a subcontractor.

Business Process related information

The default way of planning parts to be provided to subcontractors is based on MRP areas. A subcontracting MRP area should be created for every subcontractor. It is not required to create an MRP-area-specific material master record for every part to be provided to the subcontractor, but of course it is possible if you want to overrule the default planning parameters.

Required and Recommended Action(s)

If you have several subcontractors requiring the same component materials and if you do not yet use MRP areas to plan the required components then proceed as follows:

- Create MRP areas for every subcontractor (can be done before or after upgrade)
- Run regenerative MRP after the upgrade

Related SAP Notes

| Custom Code related information | SAP Note: 2227532 |

29.11S4TWL - Electronic Records

Application Components: LO-ELR

Related Notes:

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<tr>
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<tr>
<td>Business Impact</td>
<td>2268131</td>
<td>S4TWL - Electronic Records</td>
</tr>
</tbody>
</table>
Symptom

You plan a system conversion from SAP ERP to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Electronic Records (LO-ELR) is not considered as future technology and therefore part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date (end of usage right) and links to further information please refer to SAP note 2269324 Compatibility Scope Matrix for SAP S/4HANA. You can find the respective scope item under item ID 447 in the attached document with Compatibility Scope matrix details.

Electronic Records (LO-ELR) provide tools for evaluation of the logs that can be written for database table entry changes. These logs are stored in database table DBTABLOG. It is also possible to display change documents and logs of long text changes. Electronic Records are part of the SAP functionality that supports legal compliance in the regulated environment (e.g. production of active ingredients, pharmaceutical products).

Audit Trail (BC-SRV-ASF-AT) as part of SAP Information Lifecycle Managements (ILM) in software component SAP_BASIS is the functional successor of Electronic Records (LO-ELR). In addition to the functionality of the Electronic Records, Audit Trail provides the following functions:

- Access to archived change documents and database table records
- Compliance with the Information Lifecycle management (ILM) standard of SAP
- Improved functionality to define custom selections on database table logs and change documents

Audit Trail provides migration report AUT_MIGRATE_ENHAT_DB_DATA to migrate the configuration of Electronic Records to the successor feature Audit Trail. For details please see note 1425152.

Electronic Records development objects which are part of Compatibility Scope are located in package ENHAT.

Business Process related information

No changes to business processes; no changes to entries of database table DBTABLOG

Transactions
• AUT01 Configuration of Logging
• AUT02 Configuration of Navigation Help
• AUT03 Display Configuration
• AUT04 Configuration of Long Text Logs
• AUT05 Deletion of Long Texts
• AUT10 Evaluation of Audit Trail

are still available in SAP S/4HANA as Compatibility Scope.

**Required and Recommended Action(s)**

Transfer the configuration/customizing settings using SAP report AUT_MIGRATE_ENHAT_DB_DATA in SAP ERP before transforming/migrating to SAP S/4HANA.

**Custom Code Check / Adaption**

After migration from Electronic Records to new Audit Trail solution check your custom code for usage of Electronic Records development objects, which are belonging to compatibility scope and clean-up your custom code. The below (incomplete) list is an entry point for the analysis of your custom code. Make sure that with end of support of the compatibility scope no data is saved (insert/update) in Electronic Records database tables with any custom code.

Transactions (no call or clone in custom code)

• AUT01 Configuration of Logging
• AUT02 Configuration of Navigation Help
• AUT03 Display Configuration
• AUT04 Configuration of Long Text Logs
• AUT05 Deletion of Long Texts
• AUT10 Evaluation of Audit Trail

Database tables (no save of data through custom code)

• AUT_ARCH_HIST History for Archiving of Long Text Logs
• AUT_STXL SAPscript Text File Lines: Dummy Table for Audit Trails
• AUT_STXH_ARCH Buffer and Conversion Table for Archiving
• AUT_STXL_ARCH Buffer and Conversion Table for Archiving
• AUTDELTTXTID Long Text Objects Not To Be Logged on DBTABLELOG
• AUTDTELLOG Customizing for Change Document Creation
• AUTDTELLOGT Text Table for Customizing of Change Document Creation
• AutTablog Customizing for Table Logging
• AUTTABLOGT Text Table for Customizing of Table Logging
• AUTTRANSLOG Customizing, Assignment of Transaction/Objects via AUT02
Authorization object

- C_AUT_TCD

BAdI's

- BADI_AUT_ARCHIVE Intern: Badi for Archive Evaluation of Audit Trail - AUT10
- BADI_AUT_CONV AUT10: BAdI for Value and Key Conversion

Programs (no call or clone in custom code)

- AUT_ARCH01 Archiving of Long Text Logs: Write Program
- AUT_ARCH02 Archiving of Long Text Logs: Delete Program
- AUT_ARCH03 Archiving of Long Text Logs: Reload Program
- AUT_ARCHHV Archiving of Long Text Logs: Preprocessing Program
- AUT_ARCH_UNDO Archiving of Long Text Logs: Deletion of Last Preprocessing
- AUT_CUST01 Customizing tool for AUDIT TRAILs
- AUT_CUST_DEL04
- AUT_DEL Deletion of Long Text Logs
- AUT_DEL05 Deleting of long texts
- AUT_REP10 Reporting Tool for AUDIT TRAILs

Other Terms

Transactions AUT01, AUT02, AUT03, AUT04, AUT05, AUT10; Authorization object C_AUT_TCD, BAdI's BADI_AUT_ARCHIVE, BADI_AUT_CONV AUT10

29.12S4TWL - Downtimes Functionality

Application Components: PP-PI-MD

Related Notes:

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<td>2271203</td>
<td>S4TWL - Downtimes Functionality</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

Downtimes functionality (PP-PI-DTR) was developed in SAP R/3 4.6 C, but its productive usage has been withdrawn (as described in SAP Note 333382 - Downtimes: Function not available/released). The usage of downtimes functionality is therefore withdrawn in SAP S/4HANA.

Business Process related information

No changes on business processes expected

Required and Recommended Action(s)

None

29.13S4TWL - MiniApps PP-PI

Application Components: PP-PI-MD

Related Notes:

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<tr>
<th>Note Type</th>
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</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP R/3 4.6 C, coding was created to support MiniApps and workplaces. MiniApps and workplaces were never released for productive usage and has been removed in SAP S4HANA. The idea of the MiniApps have been used to implement the Fiori launch pad and the monitor material shortage app.

Business Process related information

No changes on business processes expected
Required and Recommended Action(s)

None

29.14S4TWL - Process Data Evaluation (PP-PI-PEV)

Application Components: PP-PI-PEV

Related Notes:

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<th>Note Type</th>
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<tr>
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</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP R/3 4.7, the support for process data evaluation was stopped (see SAP Note 511488 - Support set for process data evaluation). The functionality of process data evaluation is still available in SAP S/4HANA, but not considered as future technology.

Business Process related information

No influence on business processes expected

Required and Recommended Action(s)

Check SAP note 511488 for alternative approach
29.1S4TWL - Campaign Weighing and Dispensing

Application Components: PP-PI-PMA-CWD

Related Notes:

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<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<td>S4TWL - Campaign Weighing and Dispensing</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The functionality of Campaign Weighing and Dispensing has never been released for productive use. The corresponding xMII content is not available anymore.

The functionality is still available in SAP S/4HANA, on-premise edition, but not considered as future technology.

**Business Process related information**

No changes to business processes. The Weigh&Dispense solution of the SAP PP-PI consulting organization shall be considered for weigh&dispense processes.

**Required and Recommended Action(s)**

None

**Other Terms**

Transaction CMATRANGE
29.16S4TWL - Production Campaign (ERP)

Application Components: PP-PI-PCM

Related Notes:

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<tr>
<td>Business Impact</td>
<td>2270216</td>
<td>S4TWL - Production Campaign (ERP)</td>
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**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Production Campaign functionality groups planned orders and process orders to produce a certain amount of a material over a certain period of time. This is done in a continuous sequence on one production line to optimize costs regarding production setup, cleaning, and teardown processes as well as storage costs.

SAP plans to provide a new Fiori based app/UI as a SAP S/4HANA adapted solution in a future release for the Production Campaign functionality.

The legacy SAP ERP functionality of Production Campaign is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, production campaign can be found under the ID 457.

This note will be updated as soon as more details on the new Fiori UX are known.

**Business Process related information**

Backend transactions PCA1, PCA, PCA3 and PCCO are still available.

**Required and Recommended Action(s)**

No action is required as the SAP ERP Production Campaign functionality can still be used as compatibility pack scope. Please check for updates and once the SAP S/4HANA adapted solution with Fiori UX is available, please make use to the new Production
Campaign Fiori app(s). No data migration efforts are expected when switching to the new Fiori apps.

**Other Terms**

Package COPC; Transactions PCA1, PCA2, PCA3, PCCO

**29.17S4TWL - Electronic Batch Record**

Application Components: PP-PI-PDO

Related Notes:

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<tr>
<td>Business Impact</td>
<td>2270218</td>
<td>S4TWL - Electronic Batch Record</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The functionality of Electronic Batch Record (EBR) is required by customers who operate in a regulated environment (e.g. production of active ingredients, pharmaceutical products).

Batch records contain all quality-relevant data on the production of a batch. The structure, contents, and processing of batch records comply with international standards defined in the guidelines on Good Manufacturing Practices (GMP).

The content of the EBR is stored in optical archives (using SAP ArchiveLink technology). EBR Content is revisited during external audits. The EBR content has to be kept for several years dependent on the applicable regulatory requirements.

**Solution**

**Description**

Electronic Batch Record (EBR) is still available in SAP S/4HANA, but not considered as future technology and therefore part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date (end of usage right) and links to further information please refer to SAP note.
2269324 Compatibility Scope Matrix for SAP S/4HANA. You can find the respective scope item under item ID 446 in the attached document with Compatibility Scope matrix details.

New capabilities in this area will be offered as part of SAP Digital Manufacturing Cloud. Please check https://www.sap.com/products/digital-manufacturing-cloud.html

A functional successor is not yet available. Please check the SAP Road Map for SAP Digital Manufacturing Cloud for updates.

Access (read-only) to EBR content in the optical archive (transaction OAAD - business object BUS3053001) will still be possible after the end date of the usage right for scope item 446 to ensure that data records are kept and accessible throughout the required retention periods according to regulatory requirements.

Business Process related information

No influence on business processes expected.

Required and Recommended Action(s)

Before upgrading to SAP S/4HANA it is recommended that you complete all open approval procedures for electronic batch records.

Move to a successor solution timely before reaching the end date of the usage right.

Custom Code Check / Adaption

When moving to a successor solution, check your custom code for usage of Electronic Batch Record development objects, which are belonging to the compatibility scope and clean-up your custom code. The below (incomplete) list is an entry point for the analysis of your custom code. Make sure that with end of support of the compatibility scope no data is saved (insert or update) in Electronic Batch Record database tables with any custom code.

Transaction (no call or clone in custom code)

- COEBR Batch Record

Database tables (no save of data through custom code)

- MCHP Batch Record for a Batch
- MCHPV Batch Record: Versions
- MCHPVS Batch Record: Shadow Table for Link to Archive
- MCHPVT Batch Record: Long Text for Version
• **VBP_APPR_DS_META** Approval Batch Record: Meta Data (DS Tool)

BAdI's with interface methods

• **BADI_VBP_CUST_EXT** Batch Record: Customer-Specific Enhancements Using a BAdI

Interface IF_BADI_VBP_CUST_EXT

  o ADD_AL_CUST_CONT Adds Archived Customer-Specific Content
  o ADD_EBR_HEAD_VERS_TO_BUF Adds Data of EBR Header and Version to Buffer
  o ARCHIVE_CUST_CONTENT Archives Customer-Specific Contents
  o BUILD_AL_CUST_EXT_NODE Generates Folder Node for Archived Customer-Specific Objects
  o BUILD_CUST_EXT_NODE Generates Folder Node for Customer-Specific Objects
  o CHECK_CUST_OBJ_PART_ARC Archiving: Checks for Partially Archived Cust.-Specific Objs
  o CHECK_CUST_STATUS_FOR_ARC Archiving: Status Check for Customer-Specific Objects
  o CHECK_EBR_CUST_EXT_ALLOWED Checks if Customer-Specific EBR Enhancements Are Permitted
  o CLEAR_CUST_CONT_BUFFER Deletes Buffer of Customer-Specific Object Data
  o CREATE_CUST_CMENU Generates Context Menu for Nodes of Cust.-Specific Content
  o FILL_CUST_CONT_BUFFER Fills Buffer for Customer-Specific Content
  o GET_AL_CONN_DATA Provides Connection Data for ArchiveLink Files
  o GET_AL_CUST_CONTENT Provides Archived Customer-Specific Content
  o GET_CUST_CONTENT Provides Customer-Specific Content
  o GET_DOC_TYPES_FOR_ATT Provides Document Types for EBR Attachments
  o GET_EBR_ID_BY_CUST_CONT Provides EBR ID for Current Node
  o GET_FCODE Provides Function Code for Current Node
  o GETRELATED_CUST_STRUCT Provides Structure Name for Nodes of Cust.-Specific Content
  o HANDLE_CUST_FCODE Processing of Customer-Specific Function Codes
  o SET_CUST_STATUS Sets Status for Customer-Specific Objects
  o SET_CUST_STATUS_AFTER_ARC Sets Follow-On Status f. Cust.-Specific Objs After Archiving
- **BADI_VBP_DEVI_EXT** *Extensions for Deviation analysis*

  Interface IF_BADI_VBP_DEVI_EXT

  - CHANGE_DEVI_SCREEN_STATUS Changes GUI-Status of Deviation Analysis
  - CHECK_EBR_DEVI_EXT_ALLOWED Check if Extensions of Deviation Check are Permitted
  - FORCE_ARCHIVING_DEVI_DOC Forces Archiving of Deviation Analysis (in Dialog)
  - HIDE_RADIO_BUTTON_CHOICE Hide Radiobutton Selection (Save Deviation Analysis)
  - NEW_DEVI_CHECK_ON_APPROVAL Check during Approval: Repeated Deviation Check Necessary?

- **BADI_VBP_DS_EBR_APPROVAL** Batch Record: BAdI for DS Tool Signatures (Approval EBR Version)

  Interface IF_BADI_VBP_DS_EBR_APPROVAL

  - CHECK_DS_EBR_APPROVAL_ALLOWED Checks Approval for DS Tool Signature (Version Approval)
  - IS_SIGNER_ID_CHANGEABLE Is SAP User ID of Signer Changeable?

- **BADI_VBP_LOT_EXT** Batch Record: Enhancements for Inspection Lot Processing Us

  Interface IF_BADI_VBP_LOT_EXT

  - GET_LOTS_FOR_VERS Provides Inspection Lots for an EBR Version
  - CHECK_EBR_LOT_EXT_ALLOWED Checks if EBR Inspection Lot Enhancements Are Permitted
  - CHECK_LOT_STATUS_USAGE_DEC Check of 'Usage Decision Made' Status

- **BADI_VBP_ORD_EXT** Batch Record: Enhancements for Orders Using a BAdI

  Interface IF_BADI_VBP_ORD_EXT

  - CHECK_EBR_ORD_EXT_ALLOWED Are Order Enhancements Permitted?
  - CHECK_ORD_CAT_USAGE Checks if Order Category Is to Be Used for EBR
  - DISPLAY_ORDER_DATA Executes Transaction for Displaying Order Data

- EXCHANGE_MSG Exchange of Message Contents
- EXCHANGE_TEXT_SYM Exchange of Text Symbol Contents
- GET_ORDER_CAT Provides Order Category for Order Type and Plant
- GET_SUPPORTED_ORD_CAT Provides Supported Order Categories
- SET_ORD_CATCONN Sets Order Category for ArchiveLink Link Data

- BADI_VBP_PERS_EXT Batch Record: Personalization Enhancements per BAdI Interface IF_BADI_VBP_PERS_EXT
  - ADD_MAT_TO_NO_PROF_BUF Materials without Overall Profile: Add Material
  - CHECK_MAT_HAS_NO_PROF Check that Material has no Overall Profile
  - SET_ALT_LAYOUT_PROFILE Set Alternative Overall Profile for Material

Forms

- PPPI_EBR_USER storage of customer-specific data during archiving of the batch record

Document Types for the Object Type BUS3053001

- PIEBRCONTE Batch record: table of contents
- PIEBRVERS Batch record: version data
- PIEBRDEVIA Batch record: deviations
- PIEBORDER Batch record: process order
- PIEBRMATLI Batch record: material list
- PIEBRPRLOS Batch record: inspection lot
- PIEBROPC Batch record: browser-based PI sheet
- PIEBRSHEET Batch record: ABAP list-based PI sheet
- PIEBRMESSA Batch record: process messages
- PIEBRUSER Batch record: user-defined data
- EBR_DOC Batch record attachment: DOC
- EBR_RTF Batch record attachment: RTF
- EBR_PDF Batch record attachment: PDF
- User-defined Any external file as attachment

Other Terms

GMP-compliant production, transaction COEBR, business object BUS3053001, form PPPI_EBR_USER, package VBP
29.18S4TWL - Process Messages

Application Components: PP-PI-PMA-MSG

Related Notes:

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<td>2270231</td>
<td>S4TWL - Process Messages</td>
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</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

The usage of process messages in conjunction with browser-based PI sheets and work instructions is part of the compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324 Compatibility Scope Matrix for SAP S/4HANA. You can find the respective scope item under item ID 455 in the attached document with Compatibility Scope matrix details. This also applies to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions).

The usage of process messages in conjunction with linking process control systems or other external systems is possible using Manufacturing Execution Connect (classic) and is not part of the compatibility scope. This also applies to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions). For more information, see SAP S/4HANA Feature Scope Description or note 3035649 FAQ: Manufacturing Execution Connect (classic).

New Process Order integration capabilities will be offered with new SOAP and oData APIs.

Process Orders Confirmations can be received from a MES, e.g. to SAP Digital Manufacturing Cloud, with new oData APIs.

Please check the SAP API Business Hub for details: https://api.sap.com

**Business Process related information**
No influence on business processes expected as long as you continue to use process messages.


For timelines please refer to the official roadmap for SAP Digital Manufacturing Cloud: https://roadmaps.sap.com

Of course it is also possible to use the built-in features of SAP S/4HANA for production execution like transactions CORK, CORZ, COR6N and the apps for the production operator role SAP_BR_PRODN_OPTR_PROC.

**Required and Recommended Action(s)**

As process messages can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

Immediate action is not required.

**Further information**

- The usage of control recipes/control instructions (PP-PI-PMA-RCP), process messages (PP-PI-PMA-MSG) and Material Identification / Reconciliation (PP-PI-MIR) in conjunction with the PI-PCS interface is further supported in SAP S/4HANA after end of use rights for the compatibility scope through the SAP S/4HANA application Manufacturing Execution Connect (classic). This applies also to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions [PP-PI-PMA-XS])
  
  The control recipe destination types 2 (Download to external system, initiated by SAP system) and 3 (Download to external system, initiated by external system) are used together with the PI-PCS interface and are part of Manufacturing Execution Connect (classic).

The PI-PCS interface is part of application component PP-PI-PMA and is used to integrate external 3rd party manufacturing execution systems and other external systems.

- The usage of control recipes/control instructions (PP-PI-PMA-RCP), process messages (PP-PI-PMA-RCP) and Material Identification / Reconciliation (PP-PI-MIR) in conjunction with browser-based PI-sheets and work instructions (PP-PI-
PMA-PMC ) is part of the compatibility scope and is not further supported after the end of use rights for the compatibility scope items 444 (Control recipes/instructions), 454 (Browser-based PI-sheet), 455 (Process messages) and 453 (Material Identification / Reconciliation). This applies also to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions [PP-PI-PMA-XS]).

- The control recipe destination type 4 (Transfer to a browser-based PI sheet) is used together with the browser-based PI-Sheet and work instructions.
- The proposed alternative application for browser-based PI-Sheet is the Production Operator Dashboard, which is part of the SAP Digital Manufacturing Cloud.
- The support of ABAP list-based PI-sheets (PP-PI-PMA-MGT - control recipe destination type 1- Transfer to an ABAP list-based PI sheet) has already ended. (see note: 2268116 - S4TWL - ABAP-List-Based PI-Sheets - SAP ONE Support Launchpad )

Custom Code Check / Adaption

After switching from Browser-based PI sheets to a successor solution in SAP DMC Digital Manufacturing Cloud check your custom code for usage of process messages which transfer data from browser-based PI sheets to whatever receiver and clean-up your custom code that make use of process messages.

Make sure that with end of support of the compatibility scope no data is transferred from Browser-based Process Instruction sheets through process messages with any custom code.

Please also check your custom code in conjunction with browser-based PI sheets/electronic Work Instructions according to note 2268070.

Other Terms

Process Management; PI Sheet; Transactions CO54, CO54XT

29.19S4TWL - Control Recipes/Instructions

Application Components:PP-PI-PMA-RCP

Related Notes:

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<tr>
<td>Business Impact</td>
<td>2270233</td>
<td>S4TWL - Control Recipes/Instructions</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

The usage of control recipes/control instructions in conjunction with browser-based PI sheets and work instructions is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. This also applies to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions). For more details on the compatibility scope and its expiry date (end of usage right) and links to further information please refer to SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA. You can find the respective scope item under item ID 444 in the attached document with Compatibility Scope matrix details.

The usage of control recipes/control instructions in conjunction with linking process control systems and other external systems is possible using Manufacturing Execution Connect (classic) and is not part of the compatibility scope using Manufacturing Execution Connect (Classic), see SAP S/4HANA Feature Scope Description or note 3035649 FAQ : Manufacturing Execution Connect (classic). This also applies to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions).

New Process Order integration capabilities will be offered with new SOAP and oData APIs.

Process Orders can be send to a MES, e.g. to SAP Digital Manufacturing Cloud, with new SOAP APIs.

Please check the SAP API Business Hub for details: https://api.sap.com

Business Process related information

No influence on business processes expected as long as you continue to use Control Recipes/Instructions.

New Process/Control Instruction capabilities will be offered as part of SAP Digital Manufacturing Cloud. Please check https://www.sap.com/products/digital-manufacturing-cloud.html

Of course it is also possible to use the built-in features of SAP S/4HANA for production execution like for example transactions CORK, COR6N, CORZ and the apps for the production operator role SAP_BR_PRODN_OPTR_PROC.

**Required and Recommended Action(s)**

As Control Recipes/Instructions can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

Immediate action is not required.

**Further information**

- The usage of Control Recipes/Control Instructions (PP-PI-PMA-RCP), Process Messages (PP-PI-PMA-MSG) and Material Identification / Reconciliation (PP-PI-MIR) in conjunction with the PI-PCS interface is further supported in SAP S/4HANA after end of use rights for the compatibility scope through the SAP S/4HANA Product Manufacturing Execution Connect (classic). This applies also to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions [PP-PI-PMA-XS]).

  The control recipe destination types 2 (Download to external system, initiated by SAP system) and 3 (Download to external system, initiated by external system) are used together with the PI-PCS interface and are part of Manufacturing Execution Connect (classic).

  The PI-PCS interface is part of application component PP-PI-PMA and is used to integrate external 3rd party manufacturing execution systems and other external systems.

- The usage of control recipes/control instructions (PP-PI-PMA-RCP), process messages (PP-PI-PMA-RCP) and Material Identification / Reconciliation (PP-PI-MIR) in conjunction with browser-based PI-sheets and work instructions (PP-PI-PMA-PMC) is part of the compatibility scope and is not further supported after the end of use rights for the compatibility scope items 444 (Control recipes/instructions), 454 (Browser-based PI-sheet), 455 (Process messages) and 453 (Material Identification / Reconciliation). This applies also to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions [PP-PI-PMA-XS]).
• The control recipe destination type 4 (Transfer to a browser-based PI sheet) is used together with the browser-based PI-Sheet and work instructions.

• The proposed alternative application for browser-based PI-Sheet is the Production Operator Dashboard, which is part of the SAP Digital Manufacturing Cloud.

• The support of ABAP list-based PI-sheets (PP-PI-PMA-MGT - control recipe destination type 1- Transfer to an ABAP list-based PI sheet) has already ended. (see note: 2268116 - S4TWL - ABAP-List-Based PI-Sheets)

**Custom Code Check / Adaption**

After switching from Browser-based PI sheets to a successor solution in SAP DMC Digital Manufacturing Cloud check your custom code for usage of Control Recipes or Control Instructions with destination type 4 (Transfer to browser-based PI sheet) and clean-up your custom code. Control Recipe/Instruction destination type 4 is a fixed value of SAP domain COMTY which is the elementary type of Data element COMTY.

Instead of using Control recipes/control instructions use the WebService (SOAP API) *Manufacturing Order - Send* to send order data to an external (e.g. Manufacturing Execution System) system.

Make sure that with end of support of the compatibility scope no data is saved (insert or update) through Browser-based Process Instruction sheets with any custom code.

Please also check your custom code in conjunction with browser-based PI sheets/electronic Work Instructions according to note 2268070.

**Other Terms**

Process Management; PI Sheet; Transactions CO53, CO53XT

**29.20S4TWL - Storage Location MRP**

Application Components: PP-MRP

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268045</td>
<td>S4TWL - Storage Location MRP</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Business Value

Master data maintenance has been simplified and offers the following benefits:

- Reduction of modeling alternatives for similar function of the MRP planning on storage location level
- Support of a single modeling approach that provides the most sophisticated features and functions for planning on storage location level

Description

Context

In SAP ERP, storage locations can be excluded from MRP planning or they can be planned separately from other storage locations. In the latter case a reorder point procedure with maximum lot size is used which triggers transport reservations to fill up the storage location.

MRP areas cover the very same business requirements. Materials with MRP-area-specific MRP type 'ND' (no MRP) can be used instead of materials with a storage location excluded from MRP. Materials with MRP-area-specific MRP type 'VB' (reorder point planning) can be used instead of materials with separately planned storage locations. The storage location functionality is a subset of the MRP areas capabilities.

Description of Simplification

The S/4HANA MRP only plans on plant and MRP area level. Planning on storage location level is not available in SAP S/4HANA, on-premise edition 1511.

Reason

The reason for this change are:

- The MRP logic is simplified. There is only one solution for planning on storage location level
- The MRP area logic is more advanced than the logic for planning on storage location level. All MRP types and lot-sizing procedures are possible on MRP area level
- The system creates planning file entries on plant and MRP area level. If planning is required on MRP area level, then the system only plans the affected MRP area. The system does not create planning file entries on storage location level and it did not do so in SAP ERP. The SAP ERP MRP had to plan all separately planned storage locations and the plant level every time inventory or an expected receipt
was changed in a single separately planned storage location. Planning on MRP area level is more efficient

Business Process related information

Storage Location MRP is not available in SAP S/4HANA, on-premise edition 1511. Planning on MRP area level has to be used instead.

Required and Recommended Action(s)

Conversion Pre-Checks raise an error if storage location MRP is used in the source ERP system. Run report MRP_AREA_STORAGE_LOC_MIGRATION if the pre-checks detect that storage location MRP is used. The report first checks some prerequisites like MRP types, lot-sizing procedures, and MRP areas in customizing. If the required customizing entries are missing, you have to create them manually. Follow the instructions provided by the report. If all prerequisites are fulfilled, then the report generates material master records for planning on MRP area level using the storage location material records. After the report was performed, planning is done on MRP area level, also if MRP is performed on the start release.

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>SAP Note: 2216528</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Code related information</td>
<td>SAP Note: 2227579</td>
</tr>
</tbody>
</table>

See SAP Note 2466264 for S/4 conversion with storage location MRP for a Retail system.

29.21S4TWL - Process Operator Cockpits

Application Components: PP-PI-PMA-PMC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270235</td>
<td>S4TWL - Process Operator Cockpits</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution
Description

Process Operator Cockpit (POC) is still available in SAP S/4HANA, but not considered as future technology and therefore part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date (end of usage right) and links to further information please refer to SAP note 2269324 Compatibility Scope Matrix for SAP S/4HANA. You can find the the respective scope item under item ID 456 in the attached document with Compatibility Scope matrix details.

The Process Operator Cockpits, similar as the browser-based PI Sheets (see note 2268070 S4TWL - S4TWL - Browser-based Process Instruction Sheets/Electronic Work Instructions), require SAP-UI for Windows as UI technology and therefore are dependent on MS Internet Explorer (technical prerequisite for HTML viewer).

SAP Digital Manufacturing Cloud (DMC) will provide similar functionality as Process Operator Cockpits in future. For example, the Production Operator Dashboard (POD), which is based on standard SAP UI5 and SAP Fiori technology, will allow API calls into SAP S/4HANA and other systems. The DMC POD Designer will offer flexible and customer individual configuration of the worker UI. DMC for Insights and DMC Resource Orchestration will provide dashboards and production monitoring based on SAP standard and custom specific manufacturing key figures. Additionally, DMC will provide an extensibility framework to allow customer individual solutions.


Business Process related information

It will not be possible to migrate existing process instruction based Process Operator Cockpits (POC) into a future worker UIs in SAP DMC.

Required and Recommended Action(s)

You can continue to use your existing cockpits, but not invest anymore into new cockpits. Consider to evaluate the possibilities of SAP DMC instead.

Custom Code Check / Adaption

Custom enhancements and modifications of POCs in SAP S/4HANA will not work for successor UIs/PODs in SAP DMC.

Due to the tight integration of Production Operator Cockpit and browser-based Process Instruction Sheets/Electronic Work Instructions (see note 2268070 S4TWL - Browser-
based Process Instruction Sheets/Electronic Work Instructions) functionality please perform a combined custom code check.

After switching from process instruction based POC’s to a successor solution in SAP DMC Digital Manufacturing Cloud check your custom code in context of POCs which transfer data to whatever receiver and clean-up your custom code that makes use of POC functionality. The below (incomplete) list is an entry point for the analysis of your custom code. Make sure that with end of support of the compatibility scope item no data is transferred from a POC with any custom code and that no custom code initiates save of data (create/update) to respective database tables.

Transactions

- COPOC Process Manufacturing Cockpit
- O06C Define Process Manufacturing Cockpit
- O06S Define Process Manufacturing Cockpit

Database tables (no save of data through custom code)

- POC_DB_APPL_STEP Domain Model: Application Steps
- POC_DB_ARC_CONN Optical Archiving: Link Data (ArchiveLink)
- POC_DB_C_COMMAND Domain Model: Command Collection
- POC_DB_C_COMMENT Domain Model: Comment Collection
- POC_DB_C_DEVIAT Domain Model: Deviation Collection
- POC_DB_C_DEVVAR Domain model: Collection for variable setting (deviation)
- POC_DB_C_METADAT Domain Model: Local Value Collection
- POC_DB_C_OPER Domain Model: Operation Collection
- POC_DB_C_PARTIT Domain Model: Partition Element Collection
- POC_DB_C_PREDEC Domain Model: Predecessor Table
- POC_DB_C_SERVICE Domain Model: Service Operation Collection
- POC_DB_C_STEP Domain Model: Step Collection
- POC_DB_C_SYTABLE Domain Model: Variable Collection (Symbol Table)
- POC_DB_C_TRIGGER Domain Model: Trigger Collection
- POC_DB_C_VALUE Domain Model: Value Container Collection
- POC_DB_COMMAND Domain Model: Table for Step Commands
- POC_DB_CONF_REQ Domain Model: Table for Signature Requests
- POC_DB_DATA_REQ Domain Model: Table for Data Requests
- POC_DB_DEV_SIGN Signature Key: Metadata Signature Process Step
- POC_DB_DOMAIN Domain Model: Database Table for Domains
- POC_DB_EVT_SIGN Signature Keys: Metadata for Event Log
- POC_DB_EXEC_REQ Domain Model: Table for Execution Request
- POC_DB_EXEC_STRA Domain Model: Table for Execution Strategies
- POC_DB_MESS_REQ Domain Model: Table for Message Requests
- POC_DB_OPERATION Domain Model: Table for Operations
• POC_DB_PARTITION Domain Model: Partition
• POC_DB_PROC_STEP Domain Model: Table for Process Steps
• POC_DB_PROTOCOL Domain Model: Event Log for Process Steps
• POC_DB_REAS_SIGN Signature Key: Meta Data Reason for Value Change
• POC_DB_SIG_HANDL Domain Model: Signature Handler
• POC_DB_SIGNATURE Domain Model: Signature
• POC_DB_STEP Domain Model: Table for Step Basic Data
• POC_DB_STEP_SIGN Signature Key: Metadata Signature Process Step
• POC_DB_TRIG_PROT Logging: Trigger for Event in Domain Model
• POC_DB_VALUE Domain Model: DB Table for Value Container

Programs/Reports (no call or clone in custom code)

• RCOPOC_START Start Process Manufacturing Cockpit
• RCOPOC_COCKPIT_CLIENT_COPY Copy Process Manufacturing Cockpits
  Between Clients
• RCOPOC_COCKPIT_DELETE Delete Process Manufacturing Cockpit
• RCOPOC_COCKPIT_GENERATE Generate Process Manufacturing Cockpit
• RCOPOC_COCKPIT_PLANT_COPY Copy Process Manufacturing Cockpits
  Between Plants

Function Modules (no call or clone in custom code)

• POC_GET_PISHEET_DATA_XML NOTRANSL: Holen des Daten XML für
  Herstellanweisung
• POC_PRINT_SHEET_IN_EBR_STYLE NOTRANSL: Anzeige der
  Herstellanweisung im Druckbildlayout des EBR
• POC_SHOW_PMA_CONT_ARCH_LAYOUT Display PI Sheet/Work
  Instruction in Archiving Layout

BAdI’s with interface methods (check for custom implementation)

• BADI_CMX_POC_ASYNC_SIGN Handle XML change error
  o IF_BADI_CMX_POC_ASYNC_SIGN~CHANGE_ABORT_MESSAGE
• BADI_CMX_POC_DYN_SIGN_STRAT Enhancements for Dynamic Selection
  of Signature Strategies
  Interface methods IF_BADI_CMX_POC_DYN_SIGN_STRAT~
  o ADJUST_PI_CHECK_MESSAGE Check Process Instruction: Set Suited
    Message Texts
  o CHECK_DYN_SIGN_STRAT_ALLOWED Check that Dynamic
    Signature Strategy Function is Allowed
  o EXECUTE_INSTR_SEMANTIC_CHECK Executes Additional Checks
    during Semantic Check

- EXECUTE_XS_INSTR_CONTENT_CHECK XStep-based Process Instruction: Executes Additional Checks
- GET_CUST_DOMAIN_SUBCLASS Value Search: Returns Information on Characteristic & Subcl.
- HANDLE_FAILED_VALUE_SEARCH Search for Selected Signature Strategy: Error Handling
- RESET_STRAT_TO_PLACEHOLDER Reset Signature Strategy to Placeholder Value

- BADI_CMX_POC_REASON_VAL_CHG Processing of Reasons for Value Changes
- Interface methods IF_BADI_CMX_POC_REASON_VAL_CHG~
  - CHECK_COMMENT_OF_REASON Checks the Entered Comment of Reason for Value Change
  - CHECK_REASON_VAL_CHG_ALLOWED Checks that Processing of Reasons is Allowed

Enhancement Spots (check for custom implementation)

- ES_RCOPOC_WKLT
- ES_SSAPLCMX_PIL_CP_SRV_DST_PMC Enhancement PI Interpreter (Name of Destination)

Other Terms

POC: Process Manufacturing Cockpit; Transactions COPOC, O06C, O06S; Packages COPOC, CMX_POC

29.22S4TWL - Material Identification/Reconciliation

Application Components: PP-PI-MIR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270236</td>
<td>S4TWL - Material Identification/Reconciliation</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.
Solution

Description

The functionality of Material Identification and Material Reconciliation in conjunction with the browser-based PI sheets is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date (end of usage right) and links to further information please refer to SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA. You can find the respective scope item under item ID 453 in the attached document with Compatibility Scope matrix details.

The usage of material identification/reconciliation in conjunction with linking process control systems and other external systems is still possible using Manufacturing Execution Connect (classic) and is not part of the compatibility scope using Manufacturing Execution Connect (Classic), see SAP S/4HANA Feature Scope Description or note 3035649 FAQ : Manufacturing Execution Connect (classic).

A functional successor is not yet available. Please check the SAP Road Map for SAP Digital Manufacturing Cloud for updates.

Business Process related information

No influence on business processes expected.

New capabilities in this area will be offered as part of SAP Digital Manufacturing Cloud. Please check https://www.sap.com/products/digital-manufacturing-cloud.html

For timelines please refer to the official roadmap for SAP Digital Manufacturing Cloud on Road Map for SAP Digital Manufacturing Cloud (https://roadmaps.sap.com).

It is also possible to use the built-in features of SAP S/4HANA in the area of Production Supply / Material Staging for handling units with transactions COPAWA and COWBHUWA.

It is also possible to use the built-in features of SAP S/4HANA for material reconciliation with transaction MIRCMR.

Required and Recommended Action(s)

As Material Identification and Material Reconciliation can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.
Immediate action is not required when converting from SAP ERP to SAP S/4HANA.

Further Information

- The usage of control recipes/control instructions (PP-PI-PMA-RCP), process messages (PP-PI-PMA-MSG) and Material Identification / Reconciliation (PP-PI-MIR) in conjunction with the PI-PCS interface is further supported in SAP S/4HANA after end of use rights for the compatibility scope through the SAP S/4HANA application Manufacturing Execution Connect (classic). This applies also to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions [PP-PI-PMA-XS]).

The control recipe destination types 2 (Download to external system, initiated by SAP system) and 3 (Download to external system, initiated by external system) are used together with the PI-PCS interface and are part of Manufacturing Execution Connect (classic).

The PI-PCS interface is part of application component PP-PI-PMA and is used to integrate external 3rd party manufacturing execution systems and other external systems.

- The usage of control recipes/control instructions (PP-PI-PMA-RCP), process messages (PP-PI-PMA-RCP) and Material Identification / Reconciliation (PP-PI-MIR) in conjunction with browser-based PI-sheets and work instructions (PP-PI-PMA-PMC ) is part of the compatibility scope and is not further supported after the end of use rights for the compatibility scope items 444 (Control recipes/instructions), 454 (Browser-based PI-sheet), 455 (Process messages) and 453 (Material Identification / Reconciliation). This applies also to the maintenance of the corresponding process instruction content (characteristics-based process instructions and XStep-based process instructions [PP-PI-PMA-XS]).

- The control recipe destination type 4 (Transfer to a browser-based PI sheet) is used together with the browser-based PI-Sheet and work instructions.

- The proposed alternative application for browser-based PI-Sheet is the Production Operator Dashboard, which is part of the SAP Digital Manufacturing Cloud.

Custom Code Check / Adaption

After switching from Browser-based PI sheets to the successor solution in SAP DMC Digital Manufacturing Cloud check your custom code for usage of PI sheets in conjunction with Material Identification and Material Reconciliation and clean-up your custom code. The below (incomplete) list is an entry point for the analysis of your custom code. Make sure that with end of support of the compatibility scope no data is saved (insert or update) through Browser-based Process Instruction sheets with any custom code.
Please also check your custom code in conjunction with browser-based PI sheets/electronic Work Instructions according to note 2268070.

Database tables (no save of data through PI sheets)

- BEREIT Material identification: staging data
- HUM_KOMMI HUM Picking with Partial GI Posting
- MISTATUS Status Table for Material Identification on Mat./Batch Level

Process Instruction categories (no save of data through PI sheets)

- MI_HUSTG Picking for HUs
- MI_HUSQU Sequence check for HUs
- MI_HUCMP Identification
- MI_HUCNS Separate GI posting for HU
- MI_HUSTC Check completeness of picking
- MI_MATBA Mat.ident. on material / batch level
- RECON Material Reconciliation

Process Message categories (no save of data through PI sheets)

- PI_HUCNS GI Posting for HUs
- PI_HUSTG (Automatic) Material Picking
- PI_MIREC Proc.Message Mat.ID. on Mat./Batch Lvl
- PI_RECON Process Message for Mat. Reconciliation

PPPI characteristics (no save of data through PI sheets)

- PPPI_HUCANCELLED Reversal of GI Posting
- PPPI_HUCONS_DATE Document Date for Posting
- PPPI_HUCREATED_BY HU Created By
- PPPI_HUDEASSIGNED Assignment to Order Deleted
- PPPI_HU_DISPLAY_REQUIRED_HU Display Expected HU
- PPPI_HU_EXT_PACKAGING External Handling Unit ID
- PPPI_HU_EXT_PACKAGING_TO_PACK External Handling Unit ID
- PPPI_HU_EXT_PICKING_BIN_NO External Picking Bin
- PPPI_HU_EXT_STAGING_NO External Picking Number
- PPPI_HU_GET_ALLOWED_VALUES Activation of F4 help HUs
- PPPI_HU_HIGHER_LEVEL_HU Higher-Level Handling Unit
- PPPI_HU_IDENT_LEVEL Level of Identification
- PPPI_HU_KIND_OFCompletenessType of Completeness Check
- PPPI_HU_PACKING_MATERIAL Packaging Material
- PPPI_HU_POST_GOODS_ISSUE Post HU GI at Ident.
- PPPI_HU_PREREQ_FOR_GOODS_ISSUE Requirement for HU GI Posting
• PPPI_MI_BATCH_SPLIT Indicator for Batch Split
• PPPI_MI_CHECK_FOR_START_QTY Start / Component Check
• PPPI_MI_DISPLAY_MATLIST Material List Display
• PPPI_MI_GET_ALLOWED_VALUES Activation of F4 Help
• PPPI_MI_IDENT_LEVEL Level of Identification
• PPPI_MI_INPUT_MODE Entry Type
• PPPI_MI_MAT_TYPE_IN_RESER_LIST Reservation Item Selection
• PPPI_MR_FORMULA Reconciliation Formula
• PPPI_MR_IF_USED Reconciliation Yes/No [X=Yes]
• PPPI_MR_RANGE_HIGH Reconciliation Upper Range
• PPPI_MR_RANGE_LOW Reconciliation Lower Range

BAdI (no usage in PI sheets to update data)

• BADI_HU_CHANGE_INPUT BAdI for changing HU input - interface method IF_EX_BADI_HU_CHANGE_INPUT~CHANGE_INPUT

Programs (no usage in PI sheets to update data)

• MI_HU_CONFIRM_MANUAL_STAGING Manual staging
• MI_HU_HU_CONSUMPTION Material Identification: Sep. Goods Issue
• MI_HU_MATERIAL_COMPLETE_CHECK Material Identification: Completeness
• MI_HU_MATERIAL_SEQUENCE_CHECK Material Identification: Sequence
• MI_MATERIAL_CHECK_DIALOG Programm
• MI_MATERIAL_CHECK_COMPLETENESS
• MI_MATERIAL_CHECK_RESB
• MI_MESSAGES_POST
• MI_MISTATUS_GET
• MI_MISTATUS_INIT
• MI_MISTATUS_POST
• MI_MISTATUS_POST_UPDATE_TASK
• MI_MISTATUS_SET
• COMI_CHECK_PICKING
• COMI_CONFIRM_AUTO_STAGING
• COMI_CONFIRM_MANUAL_STAGING
• COMI_HU_CONSUMPTION
• COMI_HU_GOODS_ISSUE
• COMI_HU_GOODS_QTY

Function modules (no usage in PI sheets to update data)
- COMI_I_CONFIRM_MANUAL_STAGING
- COMI_I_HU_CONSUMPTION
- COMI_I_MATERIAL_COMPLETE_CHECK
- COMI_I_MATERIAL_SEQUENCE_CHECK
- COMI_MATERIAL_COMPLETE_CHECK
- COMI_MATERIAL_SEQUENCE_CHECK
- COMI_MESSAGE_DEST_TEMPLATE
- COHU_ADD_TO_EXISTING_HU
- COHU_ASSIGN_HU
- COHU_ASSIGN_HU_READ
- COHU_BEREIT_CREATE_EXTERNAL
- COHU_BEREIT_POST
- COHU_BEREIT_READ
- COHU_BEREIT_SAVE
- COHU_CHECK_PICKING_INNER
- COHU_DEASSIGN_HU
- COHU_DEASSIGN_HU_READ
- COHU_DEQUEUE
- COHU_EXBEREIT_ALL_LINES_CHECK
- COHU_EXBEREIT_LINE_CHECK
- COHU_EXBEREIT_NEW_LINES_CHECK
- COHU_HU_CANCEL_GISTORNO
- COHU_HU_CANCEL_SAVE
- COHU_HU_CANCEL_UPDATE
- COHU_HU_CREATE
- COHU_HU_CREATE_PP
- COHU_HU_DISPLAY
- COHU_HU_GOODS_ISSUE
- COHU_HU_READ_PP
- COHU_HU_REFRESH
- COHU_HU_UPDATE
- COHU_ORDER_DATA_READ
- COHU_UPDATE_HUM_KOMMI

Other Terms

PI sheet; Process order; Process Instruction categories MI_HUSTG, MI_HUSQU, MI_HUCMP, MI_HUCNS, MI_HUSTC, MI_MATBA, RECON; Process Message categories PI_HUCNS, PI_HUREC, PI_HUSTG, PI_MIREC and PI_RECON

**29.23S4TWL - Flow Manufacturing**

Application Components: PP-FLW

Related Notes:
## Note Type
- **Business Impact**

## Note Number
- **2270237**

## Note Description
- S4TWL - Flow Manufacturing

### Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

### Solution

#### Description

The functionality of flow manufacturing including line design, line balancing and sequence planning is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, flow manufacturing can be found under the ID 449.

This means that you need to migrate from flow manufacturing (ERP line design, ERP line balancing, ERP sequence planning) to its designated alternative functionality PPDS model mix planning and sequencing before expiry of the compatibility pack license. This note shall provide an overview on the scope of flow manufacturing which is going to expire with the compatibility pack license, how this maps to the designated alternative functionality, if this alternative functionality is already available or when it’s planned to be available and how you can migrate to the alternative functionality.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

### Business Process related information

Flow manufacturing in ERP includes functions for line design, line balancing as well as rate/takt-based sequence planning. It is part of repetitive manufacturing solution and only suitable for repetitive manufacturing planned orders. Following application transactions belong to flow manufacturing:

- **Line design in ERP:**
  - Create Line Hierarchy (LDB1)
  - Change Line Hierarchy (LDB2)
  - Display Line Hierarchy (LDB3)
  - Change Takt Time (LDA2)
  - Display Takt Time (LDA3)
- **Line balancing in ERP:**
PPDS model mix planning and sequencing is the successor of flow manufacturing. PPDS was originally part of the SAP Advanced Planning and Optimization (SAP APO) but is now part of S/4HANA.

For more details on the concerned migration scope, the alternative functionality and further business process related information please refer to SAP note 2268084.

Required and Recommended Action(s)

As flow manufacturing can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

SAP recommends to use model mix planning and sequencing in PPDS.

Related SAP Notes

| Custom Code related information | ERP coding enhancements will not be supported after replacement with PPDS. |

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, Flow Manufacturing, Line Design, ERP Sequence planning, ERP Line-Balancing, LDA2, LDA3, LDB1, LDB2, LDB3, LDD1, LDD2, LDD3, LAS1, LAS2, LAS3, LAS4, ...

29.24S4TWL - Process Flow Scheduling (PP-PI)

Application Components: PP-PI-PMA

Related Notes:

### 2023 – Initial Shipment

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273079</td>
<td>S4TWL - Process Flow Scheduling (PP-PI)</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

### Solution

**Description**

The process flow scheduler PFS was a scheduling tool for the process industries offered by SAP. Since SAP R/3 4.6 C, the process flow scheduler is replaced by SAP Advanced Planning and Optimization APO (see also SAP Note 217113 - PFS: Missing functions). The PFS interfaces is not available in SAP S/4HANA.

**Required and Recommended Action(s)**

Use PPDS for detailed planning and scheduling of bottleneck resources. PPDS in part of SAP S/4HANA.

### 29.25S4TWL - Rate and Rough-Cut Planning

**Application Components:** PP-CRP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270240</td>
<td>S4TWL - Rate and Rough-Cut Planning</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**
• Reduced complexity in capacity planning and in reporting on capacities utilization and capacity load
• Better performance of scheduling

Description

SAP ERP production versions allowed you to reference routings, rate routings, and rough-cut planning profiles in parallel. MRP then created capacity requirements for detailed planning, rate-based planning, and rough-cut planning in parallel. The detailed capacity requirements originated from the explosion of routings, the rate-based capacity requirements originated from the explosion of rate routings, and the rough-cut capacity requirements originated from the explosion of rough-cut planning profiles.

S/4 has only one scheduling level. The S/4 MRP explodes the one routing defined in the production version, which can be a routing, a rate routing, or a rough-cut planning profile. This was changed for the following reasons:

• S/4 planned orders and production orders have consistent capacity requirements. There are no discrepancies between detailed planning, rough-cut planning, and rate-based planning
• A production process is performed either on an assembly line or in a job-shop environment. If something is produced on a takt-based assembly line, then the production process should be modelled by a rate routing. If something is produced in a job-shop environment then the production process should be modelled by a standard routing. There is no production process that is both rate-based and job-shop simultaneously. Therefore there is no need to perform rate-based and detailed scheduling in parallel. Of course it is still possible to define alternative production versions for the same material, where one production version is performed on an assembly line and the other one is performed in a job-shop. A single production version, however, always has a single model of the production process.
• Different scheduling levels make reporting on capacities utilization and capacity load more difficult. Users always have to specify the scheduling level.
• S/4 can easily aggregate capacity requirements originating from different production versions. In SAP ERP, however, you were only allowed to aggregate the capacity requirements of a selected scheduling level. You had to make sure not to mix the detailed capacity requirements and rate-based capacity requirements. Analytics on capacity load across departments was difficult if one department used job-shop manufacturing and the other used assembly lines.
• Two scheduling levels double the runtime needed for scheduling. Three scheduling levels triple the runtime needed for scheduling.
• Capacity planning in S/4 shall be simple. PPDS offers advanced capacity planning features for the more difficult planning problems.

Business Process related information
No influence on business processes expected.

Required and Recommended Action(s)

The Conversion pre-check raises a warning if you use scheduling levels other than "Detailed planning". In this case you should check the production versions. The unfortunate naming of the scheduling levels could have resulted in a separation of jobshop and rate based capacity planning. Copy any rate routings from scheduling level "Rate-based planning" to scheduling level "Detailed planning" if the production process is modelled by a rate routing and if the routing is only defined for scheduling level "Rate-based planning".

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>Pre-Check class CLS4H_PP_MRP</th>
</tr>
</thead>
</table>

29.26S4TWL - Planning Horizon

Application Components: PP-MP-LTP, PP-MRP, PP-MP-MPS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270241</td>
<td>S4TWL - Planning Horizon</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The SAP ERP MRP covered material demand inside the planning horizon only if processing key "NETPL" was used. It covered all material demand if processing key "NETCH" was used. Planning inside the planning horizon was a performance measure intended to improve MRP runtime. With planning inside the planning horizon, MRP had to create fewer planned orders and was therefore running faster. This was achieved at the expense of a more complicated planning procedure. Planning horizons for materials on different BOM levels had to be aligned. Periodically, net change planning with processing key "NETCH" had to be performed in order to create planned orders for material demand in the more distant future.
The S/4 MRP always covers all material demand. Planning inside the planning horizon is no longer available. Thanks to performance improvements of MRP in HANA, the additional performance improvements of net change planning are negligible and do not justify the additional effort.

**Business Process related information**

A planning run is usually executed in batch mode via the planning batch transactions MDBT for MRP, MSBT for Long Term Planning and MDBS for MPS-Planning. In that context, variants can be defined. If old variants still contain the processing key NETPL, they won't work anymore.

**Required and Recommended Action(s)**

If there are still variants for the planning run batch Transactions having the processing key filled with NETPL, these variants have to be deleted.

Customers can build their own planning application using the BAPI BAPI_MATERIAL_PLANNING. The BAPI has got the same planning parameter options as the classical planning transactions. In that context the processing key NETPL cannot be used any more.

**Conversion Pre-Checks and Custom Code related information**

| Custom Code related information | Customers can build their own planning application using the BAPI BAPI_MATERIAL_PLANNING. The BAPI has got the same planning parameter options as the classical planning transactions. In that context the processing key NETPL cannot be used any more. |

**29.27S4TWL - Batch History**

Application Components: LO-BM

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

The Batch History is a rarely used part of the broad functionality in the Batch Information Cockpit. It must NOT be confused with the batch where-used list or the SAP Global Batch Traceability solution.

The batch history described here is a change log for a single selected batch master record and does not reflect the where-used information in the logistic chain. The batch history is not considered as the target architecture within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition but not considered as future technology).

There is no functional equivalent planned for future releases.

Business Process related information

No influence on business processes expected. The batch-where used functionality (transaction MB56, bottom-up/top-down analysis) are not affected at all.

The transaction codes related to Batch History are still available within SAP S/4HANA, on-premise edition.

Depending on the configuration of the batch history, it may happen that batch history records comprise references to business partners. These records will not be found by the Business Partner End of Purpose (EoP) Check in Batch Management, nor will they be found by the Information Retrieval Framework (IRF). Hence, if batch history records are still present in the system, it is in the responsibility of the customer to ensure that these records are considered in either frameworks by providing dedicated custom implementations.

29.28S4TWL - Selected Business Functions in PP area

Application Components: PP-PI-PEV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271206</td>
<td>S4TWL - Selected Business Functions in PP area</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion from SAP ERP to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The functional scope of a SAP ERP system is determined by a large set of business functions. This was necessary because new or enhanced features were not allowed to change existing reports or transactions. Every release new business functions were added to switch the features developed for the release. Business functions became unclear over time and the combinatorics of different business functions difficult to predict. Therefore business functions have been cleaned up in SAP S/4HANA. Many business functions are always on. A few business functions have been declared obsolete. This note provides details for the obsolete business functions in the PP components.

**Solution**

**Description**

Selected PP business functions are not part of the target architecture in SAP S/4 HANA, on-premise edition 1511 – FPS1. The following PP business functions are obsolete and cannot be switched on in S/4HANA:

- LOG_PP_INTELI_01 (Power list for process manufacturing)
- LOG_PP_PRSP (Portal for production supervisor)
- LOG_PP_BATCH_HISTORY
- LOG_PP_CFB (Food and Beverage Solution)

Business EA-SCM is always on in S/4HANA to enable the migration from SAP-ERP to S/4HANA.

**Basic Information related to Business Functions**

If a business function was switched “ON” in the Business Suite start release system, but defined as “always_off” in the SAP S/4HANA, on-premise edition target release, then a system conversion is not possible with this release. See SAP Note 2240359 - SAP S/4HANA, on-premise edition 1511: Always-Off Business Functions. If a business function is defined as "Business function is obsolete and cannot be activated" in the target release (SAP S/4HANA, on-premise edition 1511 – FPS1), then the business function status remains unchanged from the status on start release and system conversion is possible. Nevertheless the functionality related to these business functions is not always available within SAP S/4 HANA, on-premise edition 1511 – FPS1.

**Business Process related Information**
Business function **LOG_PP_INTELL_01** offered a production supervisor work list. This is available as of S/4HANA on premise edition 1611 release as Fiori apps "Manage production order operations" and "Manage production orders".

Business function **LOG_PP_PRSP** offered portal roles for the production supervisor. This is available as of S/4HANA on premise edition 1511 release as Fiori roles and launchpad.

Regarding the functions switched by business function **LOG_PP_BATCH_HISTORY** please see the separate note 2270242.

Business function **LOG_PP_CFB** switched various functions like

- Catch Weight Management
- Various print reports
- Weigh scale integration
- Enhanced production version management

Catch weight management is available in S/4HANA w/o switching.

One of the CFB functions was enhanced production version management implemented by reports **CFB_PV_MRP_PREP_MIXCAL** and **CFB_PV_MRP_RELEASE_LOCK**. The reports allowed to move production versions between active and inactive production versions, which were stored in a separate databases. Inactive production versions were invisible to MRP. In S/4HANA production versions have status "Blocked for automatic sourcing", which serves the same purpose. If you used reports **CFB_PV_MRP_PREP_MIXCAL** or **CFB_PV_MRP_RELEASE_LOCK** then use the production version status in future.

Enterprise extension **EA-SCM** offered various functions like

- Direct Store Delivery DSD
- Cross Docking
- Vehicle Space Optimization
- Logistical Value Added Services

The functions switched by EA-SCM are still available as part of the S/4HANA compatibility pack, but should be considered not part of the S/4HANA target architecture. Successor functions for cross docking and vehicle space optimization are available in transportation management SCM-TM.

Originally enterprise extension EA-SCM also switched PI-sheets, X-steps, MES integration, and production order splitting. These functions have been removed from the switch. In other words the PI-sheets, X-steps, MES integration, and production order
splitting work in S/4HANA on premise edition even if business function EA-SCM is switched off. Please also note the corresponding notes for PI-sheets and MES integration.

### 29.29S4TWL - Time Streams Usage in Kanban

**Application Components:** PP-KAB

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3196066</td>
<td>SAP S/4HANA Simplification Item: Usage of Time Streams in Kanban</td>
</tr>
</tbody>
</table>

**Symptom**

In S/4HANA, persisted time streams are not longer used for Kanban time calculations.

**Reason and Prerequisites**

The usage of persisted time streams for time calculations based on factory calendars and shift definitions has been removed in Kanban.

- For Kanban Calculation, dynamic time streams are used which are generated on the fly based on the customizing settings.
- For the determination of delivery dates and for Kanban Summarized JIT Calls, a new calculation algorithm was introduced.

In the customizing transactions OM19 ("Define Kanban Calculation Profiles") and OJI3 ("Define Time Definition"), the time stream entries in table TTSTR will still be saved and transported.

**Solution**

If the SAP standard functionality for Kanban time calculation is used, there is no adoption needed.

Customer specific modifications in the function group includes L0PK1F01, L0PK1F03, or LPABC1F01 that change the way how time streams are created will have no effect anymore on the Kanban time calculations.

**Other Terms**
29.30S4TWL - Graphical display of available quantity in MRP evaluations

Application Components: PP-MRP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3018123</td>
<td>S4TWL - Graphical display of available quantity in MRP evaluations</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP ERP, within the Stock and Requirements List (MD04), a graphical display of available quantity was available. With the advancement of web-based applications, old chart technology like used here is no longer supported.

A new graphical display of the available quantity is available in the Manage or Check Material Coverage apps.

Required and Recommended Action(s)

If planners are using the graphical display of available quantity in Stock and Requirements List, encourage them to switch to the Manage or Check Material Coverage apps for graphical evaluations.

29.31S4TWL - External Interfaces in PP

Application Components: LO-SCI, PP-MES

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268048</td>
<td>S4TWL - External Interfaces in PP</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The following interfaces to external systems are not available in SAP S/4HANA:

<table>
<thead>
<tr>
<th>Interface</th>
<th>Package</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>PFS-Interface</td>
<td>CPFS</td>
<td>The process flow scheduler PFS was a scheduling tool for the process industries offered by SAP. It was replaced by SAP-SCM with R/3 release 4.6C. See also separate simplification item 2.1.11.33 Process Flow Scheduling (PP-PI)</td>
</tr>
<tr>
<td>LPO-Interface</td>
<td>XLPO</td>
<td>Lean planning and operations LPO was an algorithm for levelling production based on lean principles. The algorithm was never productized</td>
</tr>
<tr>
<td>Icon Interface</td>
<td>/SCRM/*</td>
<td>Icon was a response management solution. SAP’s preferred solution for response management is IBP for response</td>
</tr>
<tr>
<td>CBP Interface</td>
<td>CBPC</td>
<td>The constraint-based planning interface (CBP interface) was replaced by the POI interface in 2002. For details, see note 500526</td>
</tr>
<tr>
<td>KK2 Interface</td>
<td></td>
<td>This interface used an outdated interface technology (flat file)</td>
</tr>
<tr>
<td>KK5 Interface</td>
<td></td>
<td>This interface used an outdated interface technology (flat file)</td>
</tr>
<tr>
<td>S95 Interface</td>
<td></td>
<td>See separate simplification item 2.1.11.19 ANSI/ISA S95 Interface</td>
</tr>
</tbody>
</table>

Use the POI interface or the integration with Manufacturing Execution Systems instead.

**Business Value**

The POI interface offers a comprehensive set of BAPIs and IDocs to connect SAP S/4HANA with external MES or planning systems. Alternative BAPIs and IDocs are not required. By deprecating the above mentioned interfaces SAP reduces confusion of project teams looking for ways to connect an external system and it facilitates the further development of the POI interface.

**Business Process related information**

Use the POI interface or the MES interface to connect SAP S/4HANA to an MES system or a planning system. For details, see the [MES integration documentation](#) and the [POI documentation](#)
<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
</tr>
</thead>
<tbody>
<tr>
<td>CBP1, CBP2, CBP3, CBP4, CBP5, CBP6, CBP7, CBPV, CBCACT, CBCAT, CCBR, CBCF, CBCMLGMRP, CBCMLGSOP, CBCMLS, CBCMOD, CBCMSV, CBCMTG, CCBONFMRP, CCBONFSOP, CBCPAR, CBCS, CBCSTEP, CBPRO, PFSE, PX01, PX02, PX03, PX04, PX05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RFC-enabled function modules are not available in SAP S/4HANA</th>
</tr>
</thead>
</table>

**Required and Recommended Action(s)**

Check if you call any of the above mentioned RFC-enabled function modules from an external system. Call RFC function modules of the POI interface instead.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2226966 |
29.32S4TWL - Data Destruction in Kanban

Application Components: PP-KAB

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2935734</td>
<td>Deprecation of Report PK_DELETE_VENDOR_CUSTOMER</td>
</tr>
</tbody>
</table>

Symptom

Report PK_DELETE_VENDOR_CUSTOMER deletes personal data in area of Kanban. This report should not be used for this purpose. The functionality is replaced by data destruction object PP_KANBANCC_DESTRUCTION (documented here) together with the End-of-Purpose Check for personal data (documented here).

Reason and Prerequisites

Report PK_DELETE_VENDOR_CUSTOMER deletes customer data related to the process "Kanban with SD" and supplier data in message conditions for summarized JIT calls. In case you are not using these processes, the note is not relevant.

Solution

After applying the correction, the report will abort immediately issuing an error message referring to the information given in this note.

29.33S4TWL - Scheduling beyond year 2048

Application Components: PP-CRP-SCH

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2941708</td>
<td>S4TWL - Scheduling beyond year 2048</td>
</tr>
</tbody>
</table>

Symptom

You upgrade to SAP S/4HANA, on-premise edition 2021. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution
Description

Domain CX_ZTPKT changed from INT4 to INT8.

Business Value

Manufacturing, maintenance and network orders can be scheduled beyond the date 19.01.2048.

Business Process related information

There is no impact on existing business processes.

How to Determine Relevancy

You are affected if you have own custom code using the scheduling functionality, even partly and even if you don’t schedule beyond 2048. For example if you use the function to convert date/time into a point in time.

Required and Recommended Action(s)

Check all occurrences in custom code where domain CX_ZTPKT or a data element using this domain is used.

- If the data declaration or interface parameter holds a point in time value (as seconds since 1.1.1980): Ensure that dependent types are also based on domain CX_ZTPKT.
- In case the data declaration or interface parameter does not hold a point in time value: Change it to some other INT4 type not using domain CX_ZTPKT.

Check all usages of function module DATE_TIME_CONVERT and ensure that the parameter POINT_IN_TIME can hold the value 253086767999 after the upgrade. For example by using domain CX_ZTPKT.

29.34S4TWL - Graphical Planning Table

Application Components:PP-CRP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268050</td>
<td>S4TWL - Graphical Planning Table</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

The classic Gantt-chart control only works in SAP-Gui, not in Fiori-UIs

Solution

Description

Graphical planning tables (also known as graphical planning board or Gantt chart) can be used for capacity load levelling and sequence planning. SAP offered basic capacity planning by means of transactions CM21, CM22, etc. and advanced capacity planning in PP/DS. This note is relevant for basic capacity planning by means of CM* transactions.

Transactions CM21, CM22, etc with graphical planning table are still available in SAP S/4HANA on-premise edition, but not considered as the target architecture. Graphical Planning Table is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Graphical Planning Table can be found under the ID 451.

Transactions CM* will be replaced by apps like "Manage Work Center Capacity", "Capacity Scheduling Table", and "Capacity Scheduling Board" in SAP S/4HANA. The use-cases covered and the features provided by the new apps are similar to the classic CM* transactions. The new apps are available from release SAP S/4HANA on-premise edition 1909 and in cloud from 1908.

Alternatively consider SAP Digital Manufacturing Cloud DMC component Resource Orchestration REO. REO works on more granular data defined in Digital Manufacturing Cloud. In a job-shop environment for example work-centers could be defined in SAP S/4HANA and the individual machines only in DMC. Dispatching from the work-center level to the individual machine level is the domain of REO. Further information can be found on http://help.sap.com/dmc.

Use embedded PP/DS for complex scheduling problems, if for example planned and production orders of different BOM levels need to be synchronized, or if material availability needs to be considered in scheduling, or if multiple bottleneck resources must be aligned. PP/DS is embedded into S/4HANA. It is available on-premise. For details refer to note 2666947.

Business Process related information
It will not be possible to translate customizing and personalization of the classic graphical planning table into a UI configuration of the new graphical planning table.

**Required and Recommended Action(s)**

Consider to migrate to the new apps "Manage Work Center Capacity", "Capacity Scheduling Table", and "Capacity Scheduling Board"

or evaluate REO

or evaluate (embedded) PP/DS.

**Other Terms**

Gantt-Chart; Graphical Planning Board; Capacity Levelling; Transactions CM21, CM22, REO; DMC

**29.35S4TWL - Logistic Information System in PP**

Application Components: PP-IS

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268063</td>
<td>S4TWL - Logistic Information System in PP</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Remark: For the general approach regarding analytics within SAP S/4HANA see the following analytics simplification item in cross topics area.

The shop floor information system is part of the logistics information system LIS (Note: If you use a material number longer than 18 characters - see restriction note “Extended Material Number in LIS: SAP Note 2232362”). The LIS can be used to compare planned
vs. actual parameters like lead time, execution time, queue times, scrap, and so on. The classic ERP implementation of the LIS has some specifics:

- LIS operates on redundant data. Every business transaction not only updates the business documents, but also pre-aggregated data in LIS. Performance suffers, locking conflicts might occur, and memory is wasted. Whether or not LIS causes locking conflicts depends on the frequency of change of the aggregated information. If several transactions want to update the same aggregated dataset in parallel, then you will experience a locking conflict.
- LIS operates on pre-aggregated data. It is not possible to drill down into the individual business documents. Multi-dimensional reporting (aka Slicing and dicing) is only possible for dimensions provided in the pre-aggregated data.
- LIS uses an old UI technology making multi-dimensional reporting clumsy.
- LIS only supports material numbers with up to 30 characters.

Future production analytics will be based on HANA, CDS views aggregating transactional data dynamically, and powerful analytical UIs for multi-dimensional reporting. With this it will be possible to replace the current LIS. You will be able to use classic LIS and the future production analytics in parallel for some time as long as you do not switch off the update of the LIS tables (Functionality available in SAP S/4HANA on-premise edition delivery but not considered as future technology).

LIS is part of the S/4HANA compatibility pack. You can continue using LIS. All LIS tables are available in S/4HANA.

Once future production analytics supports all your analytics requirements, you can switch off the update of the LIS tables. Once you have switched off updating LIS tables, you will notice the following improvements:

- Improved performance of many transactions (fewer tables to update, fewer locking conflicts)
- Less memory required

**Business Process related information**

The following reports require a closer look:

Kanban: Info structure S029 collects frequency information of status changes. This information is only stored in S029. Usually LIS tables store data redundantly and data in LIS tables can be re-created from the data in other tables. LIS data can theoretically also be provided by CDS views if the data is stored redundantly. This is not the case for table S029. Do not switch off the update of LIS table S029 if you need the information.

**Required and Recommended Action(s)**
Invest reasonably in the LIS. The LIS is intended as an interim solution in S/4HANA, which can be used until PP analytics in HANA and SAP Digital Manufacturing Insights DMI have the required scope. This also allows you to migrate your business processes step by step from SAP ERP to SAP S/4HANA, on-premise edition.

If LIS did not cause serious locking conflicts in SAP-ERP, then it will likely not cause any locking conflicts in S/4HANA either. If LIS causes locking conflicts during normal operations, then investigate the use of HANA based analytics with dynamic aggregation of data in CDS views. S/4HANA offers some reports using HANA based analytics technology.

https://help.sap.com/viewer/fe39e10a9a864a8f8dc9537704f0fa13/1809.002/en-US/d12d2a589aa80a02e10000000a44147b.html

The following analytical Fiori Apps already provide calculated measures:

- F2034: Material Scrap
- F2034: Operation Scrap
- F2171: Excess Component Consumption
- F2172: Execution Duration
- F2216: Scrap Reason

Moreover, packages PPH_ANALYTICS and VDM_PP with its sub-packages contain CDS views, which you can use to implement your own analytical queries. For a list of released CDS views in PP refer to:

https://help.sap.com/docs/SAP_S4HANA_ON-PREMISE/8308e6d301d54584a33cd04a9861bc52/20bb26e53e12432a830a4243d81c135a.html

**Custom Code related information**

Enhancements and modifications of the LIS will not work for the future analytics solution.

Custom reports reading one of the following tables will not work after the update of the LIS tables is switched off:

- S021: Order item data for material
- S022: Operation data for work center
- S023: Totals for material
- S024: Totals for work center
- S025: Run Schedule
- S026: Material usage
- S028: Reporting point statistics
• S094: Stock/Requirements Analysis
• S225: Goods receipts: repetitive manufacturing
• S227: Product costs: repetitive manufacturing

These tables have partially been replaced by CDS views providing more or less the same information but with different column names and structures.

29.36S4TWL - Sales and Operation Planning

Application Components: PP-SOP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268064</td>
<td>S4TWL - Sales and Operation Planning</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Sales & Operations Planning (SOP) is a forecasting and planning tool for setting targets for sales and production based on historical, current, or estimated data. SOP is used for long-term strategic planning, not short-term tactical planning. Resource requirements can be computed to determine work center load and utilization. SOP is often performed on aggregated levels such as product groups and work-center hierarchies. Sales & Operations Planning includes standard SOP and flexible planning. Standard SOP comes preconfigured with the system. Flexible planning offers options for customized configuration.

Sales & Operations Planning (SOP) will be replaced by Integrated Business Planning IBP (Functionality available in SAP S/4HANA delivery but not considered as future technology). Integrated Business Planning supports all SOP features plus advanced statistical forecasting, multi-level supply planning, an optimizer, collaboration tools, an Excel-based UI, and Web-based UIs.

Required and Recommended Action(s)
PP SOP is intended as a bridge or interim solution, which allows you a stepwise system conversion from SAP ERP to SAP S/4HANA on-premise edition and SAP IBP.

**Custom Code related information**

Integrated Business Planning (IBP) is an all-new implementation for sales and operations planning. Any enhancements or modifications of SOP will not work once IBP is used.

**Exceptions**

ERP Sales & Operations Planning (SOP) will be replaced by Integrated Business Planning. The following parts of SOP are needed also for other business processes. They are part of core SAP S/4HANA and will not be replaced:

- Using table view V_T001W_DR or using transaction V_T001W_DR you can maintain the node type of an ERP plant in the distribution network. Node-types are also needed by various other applications such as APO and IBP integration.
- Using transactions MC84, MC85, and MC86 you can maintain product groups. Product groups are a popular selection condition in MRP apps.

**Other Terms**

Transactions MC74, MC75, MC78, MC80, MC81, MC82, MC83, MC87, MC88, MC89

Package MCP2

**29.37S4TWL - Simplified Sourcing**

Application Components:PP-MRP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268069</td>
<td>S4TWL - Simplified Sourcing</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

Simplification in master data maintenance:

- Neither customizing nor source list records needed for sourcing
- Reduced complexity: Reduced set of possible sources of supply with a clear and symmetric definition
- Consideration of quota arrangements is not dependent on any material master attributes.

Description

Context

MRP determines material shortages, then determines lot sizes, and then sources of supply. Lot sizing can decide to cover several material shortages with just one material receipt. After lot sizing, the planned material receipts with the requirement date and quantity are known. Subsequently sourcing determines whether the required quantity is manufactured or purchased and from which supplier the material is purchased.

Description of Simplification

The Basic idea of this simplification is a reduced set possible sources of supply. SAP S/4HANA supports the following types of sources of supply:

- Production versions
- Delivery schedules
- Purchasing contracts
- Purchasing info records

Sources of supply have a common set of attributes like a temporal validity interval and a quantitative validity interval.

Sourcing selects valid sources of supply with the following conditions:

- The source of supply is a production version
  - and the procurement type of the material is either 'E' (in-house production) or 'X' (Both procurement types)
  - and the production version is neither "Locked for any usage" nor "Locked for automatic sourcing"
  - and the planned material receipt's quantity is inside the quantity range of the production version
  - and the planned material receipt's delivery date is in the validity period of the production version
- The source of supply is a purchasing info record
  - and the procurement type is 'F' (external procurement)
Quota arrangements can be used to prioritize sources of supply in case several sources of supply are valid simultaneously. If sourcing determines several valid sources of supply for the same material, plant, quantity, and date, but does not find any quota arrangements, then it prefers production versions over delivery schedules, delivery schedules over purchasing contracts, and purchasing contracts over purchasing info records. If sourcing selects a production version as source of supply, then the material receipt is going to be a planned order. If sourcing selects a purchasing info record, then the planned material receipt is going to be a purchase requisition.

The SAP S/4HANA sourcing logic differs from the classic business suite sourcing logic in the following aspects:

<table>
<thead>
<tr>
<th>Business Suite Logic</th>
<th>SAP S/4HANA Logic</th>
<th>Reason</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material master attribute &quot;Selection Method&quot; MARC-ALTSL determines if MRP finds a BOM via the BOM's validity period, the BOM's quantity range, or via production version</td>
<td>Production versions are the only source of supply for in-house production. The material master attribute MARC-ALTSL no longer exists. Sourcing selects material BOMs only if a suitable production version exists. Sourcing does not need production versions to find make-to-order and make-to-project bills of material, but production versions are required to select routings also if make-to-order or make-to-project BOMs are used.</td>
<td>Simplification of the sourcing logic; symmetry of different sources of supply; only production versions are integrated into quota arrangements; only production versions make sure BOM and routing fit together</td>
</tr>
<tr>
<td>The order type attribute &quot;Routing selection&quot; T399X-ARBPA determines how a routing is determined during production order creation. The attribute can be defined in customizing transaction OPL8.</td>
<td>Production versions are the only source of supply for in-house production. A production version references a routing. This routing is used to create production orders</td>
<td>Simplification of the sourcing logic</td>
</tr>
<tr>
<td>The production version has a locking indicator with values 'Locked' and 'Not locked'. MRP only selects production versions that are not locked.</td>
<td>MRP only selects production versions that are neither 'Locked for any usage' nor 'Locked for automatic sourcing'</td>
<td>The new status &quot;Locked for automatic sourcing&quot; corresponds to the &quot;Relevant for automatic sourcing&quot;</td>
</tr>
</tbody>
</table>

- and the purchasing info record is flagged for "Relevant for automatic sourcing"
- and the planned material receipt's quantity is inside the quantity range of the purchasing info record
- and the planned material receipt's delivery date is in the validity period of the purchasing info record

- The source of supply is a delivery schedule and the procurement type is 'F' (external procurement)
- The source of supply is a purchasing contract and the procurement type is 'F' (external procurement)
<table>
<thead>
<tr>
<th>Phantom assemblies are exploded with the method defined in the phantom assembly's material master attribute MARC-ALTSL.</th>
<th>Production versions are the only source of supply for phantom assemblies. If a phantom assembly production version exists with the same ID as the production version exploded on finished material level, then the phantom BOM explosion explodes the BOM defined in the production version with the same production version ID. If no such production version exists, then the system searches for a phantom assembly production version using the explosion date and the quantity.</th>
<th>Simplified sourcing logic and the possibility to synchronize BOM explosion on several BOM levels.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Subcontracting purchase requisitions are exploded with the method defined in the material master attribute MARC-ALTSL</td>
<td>Production versions are the only source of supply for subcontracting. If you use subcontracting purchasing info records to define the supplier, you should define the production version in the purchasing info record. In all other cases, the system selects the material's production versions, also for subcontracting</td>
<td>Simplified sourcing logic and the possibility to define a supplier-specific production version. Different suppliers may need different subcontracting components from the client while procuring the other parts from elsewhere</td>
</tr>
<tr>
<td>MRP only selects purchasing info records if a source list entry exists that references the supplier referenced in the info record</td>
<td>Purchasing info records are a source of supply in their own right. MRP selects purchasing info records if the &quot;relevant for automatic sourcing&quot; indicator is set in the purchasing info record</td>
<td>Simplification of the sourcing logic: It is not required to create a source list entry on top of the purchasing info record</td>
</tr>
<tr>
<td>MRP uses source lists to determine vendors, contracts, or delivery schedules</td>
<td>Source lists are not considered in the S/4HANA on-premise edition 1511 until SP01. In later releases source lists can be used to provide</td>
<td>Optionally, source lists can be used to temporarily block a source of supply or MRP-enable it only for a limited period of time.</td>
</tr>
</tbody>
</table>

"Locked for automatic sourcing."
<table>
<thead>
<tr>
<th>Additional Information for Sources of Supply</th>
<th>SAP S/4HANA Cloud, Private Edition 2023 – Initial Shipment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional information for sources of supply. For example, the source list may be used to block a source of supply, MRP-enable it only for a limited period of time or prioritize available sources of supply. For more details on source of supply prioritization, please see note 2614920. Alternatively quota arrangements can be used as a workaround.</td>
<td></td>
</tr>
</tbody>
</table>

**MRP only considers quota arrangements if the material master attribute “Quota arrangement usage” MARC-USEQU is set and the quota arrangement usage configuration includes MRP**

**MRP considers quota arrangements always. It is not required to switch it on in the material master**

In the early days of MRP, reading and considering quota arrangements was expensive. MARC-USEQU was a performance measure, with which you could switch off quota arrangements in MRP to improve performance. MRP in HANA does not suffer much from considering quota arrangements.

**Purchase order creation only considers quota arrangements if the material master attribute “Quota arrangement usage” MARC-USEQU is set and the quota arrangement usage configuration includes purchase orders**

**Purchase order creation and update as well as purchase requisition creation and update always consider and update quota arrangements. It is not required to switch usage of quota arrangements on in the material master**

Simplified sourcing logic. Quota arrangements are used if they exist.

**MRP considers more detailed planning parameters of the supply source only, if the parameter for scheduling according to purchasing info record or agreement has been set in customizing among the plant (T399D-GTERM) or MRP group parameters (T438M-GTERM).**

**MRP considers always more detailed planning parameters of the supply source. It is not required to switch it on in the customizing.**

Simplified sourcing logic. Planning relevant parameters will be considered as soon as a certain source of supply has been choosen by the MRP logic.

**Following parameters have been considered by the MRP based on these customizing flags:**

- **Info record:**
  - Planned delivery time
<table>
<thead>
<tr>
<th>Contracts/Scheduling agreements:</th>
<th>Production version (for subcontracting)</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Planned delivery time</td>
<td>o</td>
</tr>
<tr>
<td>• GR processing time</td>
<td>o</td>
</tr>
<tr>
<td>• Storage location</td>
<td>o</td>
</tr>
<tr>
<td>• Rounding profile</td>
<td>o</td>
</tr>
</tbody>
</table>

MRP ignores the rounding profile of the info record, even if the parameter for scheduling according to purchasing info record or agreement has been set among the plant (T399D-GTERM) or MRP group parameters (T438M-GTERM).

MRP considers always a rounding profile assigned to a chosen info record.

Simplified sourcing logic. Planning behavior has been alligned for different types of supply sources for external procurement.

Reason

Simplified sourcing in SAP S/4HANA is simpler than sourcing in the classic SAP ERP for the following reasons:

- The different sources of supply are pretty symmetrical. Sources of supply have a temporal validity, a quantitative validity, a deletion indicator, and a "relevant for automatic sourcing" indicator. The sourcing logic can treat the different sources of supply in a uniform way.
- Quota arrangements can be used to prioritize any of the possible sources of supply.
- Purchasing info records are proper sources of supply. The SAP S/4HANA MRP can select purchasing info records without source list entries. It is sufficient to define the supplier information of a material in the purchasing info record.
- Production versions make sure BOM and routing fit together.
- Production versions have always been the only in-house production source of supply integrated with APO PP/DS. With production versions as the only in-house production source of supply, ERP sourcing and PP/DS sourcing become more similar.
- Purchasing info records, contracts, and delivery schedules have always been the external procurement sources of supply integrated with APO. With purchasing info records being proper sources of supply, ERP sourcing and PP/DS sourcing become more similar.
- A unified source of supply model is the basis for future innovations in sourcing.

Business Process related information

If you want a BOM or routing to be considered by MRP, you have to create a production version.
If you want MRP to source a purchase requisition from a certain supplier, you no longer have to define a source list entry. It is sufficient to set the indicator "relevant for automatic sourcing" in the purchasing info record.

**Required and Recommended Action(s)**

**Actions required for manufactured materials**

Check if production versions exist for those BOMs and routings that should be considered by MRP. Report CS_BOM_PRODVER_MIGRATION02 can be used to analyze the situation as well as to create proposals for production versions based on BOM validities. Run the report and accept or reject the proposed production versions. Note 2655077 contains report CS_BOM_PRODVER_MIGRATION02.

**Actions required for externally procured materials**

Analyse your source list entries

- No action is required if source list entries refer to contracts and delivery schedules. S/4HANA sourcing finds contracts and delivery schedules without source list entries.
- Activate the automatic sourcing indicator in the corresponding purchasing info record if the source list entry only refers to a supplier and if the supplier shall be selectable by MRP

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Conversion Report</th>
<th>SAP Note: 2655077</th>
</tr>
</thead>
<tbody>
<tr>
<td>The SAP S/4HANA MRP only finds BOMs with valid production versions. SAP ERP MRP also finds BOMs with valid temporal or quantitative validity intervals if the BOM selection method specifies BOM selection using date or quantity.</td>
<td></td>
</tr>
<tr>
<td>The conversion report CS_BOM_PRODVER_MIGRATION02 lists BOMs to which no corresponding production version is found. You can use the conversion report to analyze the situation as well as to automatically create production versions from valid BOMs and routings.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>SAP Note: 2226333</th>
</tr>
</thead>
<tbody>
<tr>
<td>If you implemented BADI MD_MODIFY_SOURCE in SAP ERP, you should check if the intended functionality still works. Also check the changes related to the Simplification Item 2.1.11.11MRP in HANA.</td>
<td></td>
</tr>
<tr>
<td>See note 2226333 for details</td>
<td></td>
</tr>
</tbody>
</table>
29.38S4TWL - Browser-based Process Instruction-Sheets/Electronic Work Instructions

Application Components: PP-PI-PMA-PMC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268070</td>
<td>S4TWL - Browser-based Process Instruction Sheets/Electronic Work Instructions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The functionality of browser-based PI sheets and electronic Work Instructions is still available in SAP S/4HANA (functionality available in SAP S/4HANA but not considered as future technology).

Browser-based Process Instruction Sheets (PI Sheets) and electronic Work Instructions are based on a framework that allows the creation of worker UIs optimized for the needs of individual workers. The content of the PI Sheet/Work Instruction is rendered as plain HTML and displayed in the SAP HTML Viewer of ABAP SAP GUI screens. It requires SAP GUI for Windows as UI technology and does not work as plain WebUI in an internet browser. Browser-based PI sheets and EWIs require the MS Internet Explorer as the HTML viewer of the SAP GUI for Windows depends on MS Internet Explorer as the HTML viewer of the SAP GUI for Windows depends on MS Internet Explorer (technical prerequisite for HTML viewer). Please check respective attached notes 2224356 and 2999251 regarding MS Internet Explorer lifecycle/compatibility.

Content of browser-based PI Sheets and Work Instructions is defined using process instruction characteristics (XStep-based process instructions or characteristic-based process instructions [only PI sheets]). Based on the process instruction content, the Control Recipes/Control Instructions are created. If the control recipes/instructions belong to the control recipe destination of type 4, the corresponding browser-based PI sheet/Work Instruction is created when the control recipe/instruction is sent.
The rendered HTML content of browser-based PI Sheets and Work Instructions uses XSL and CSS. SAP standard XSL and CSS can be exchanged by custom style sheets. This allows easy custom adoption of the UI at the customer.

Browser-based PI sheets are used in the regulated environment (pharmaceutical production, and so on) to control and track the production execution. They can be archived to optical archives as part of the Electronic Batch Record (EBR) to ensure compliant manufacturing (comply with US CFR21 part 11 and so on).

Starting with SAP R/3 4.6 C, formerly used ABAP-list based process instruction sheets have been replaced by browser-based PI sheets (see SAP Note 397504 - Support for ABAP list-based PI sheet). Related functionality is still part of SAP ECC and S/4 -> separate simplification item.

Digital Manufacturing Cloud’s (DMC) Production Operator Dashboard (POD) will provide similar functionality as PI-sheets in future. It will allow displaying Work Instructions, recording of actual data, and enforcing predefined production processes. The POD is developed keeping the following objectives in mind:

- The POD is a highly functional, attractive, and usable UI for shop-floor operators
- DMC runs together with S/4HANA as well as with S/4HANA Cloud
- DMC and S/4HANA communicate through SOAP messages and oData services
- Production engineers shall be able to design the POD w/o programming or HTML skills
- When designing the POD, production engineers can choose from many predefined UI controls
- The POD shall run in the most popular browsers using standard UI5 and Fiori technology
- It will be possible to connect the POD with sensors and actuators on the shop-floor

For timelines please refer to the official roadmap for SAP Digital Manufacturing Cloud (https://roadmaps.sap.com).

Business Process related information

No migration tool from SAP PP-PI browser-based POC UI configuration to SAP DMC POD configuration will be offered.

Required and Recommended Action(s)

You can still use PI-sheets using SAP-GUI for Windows. You should however be aware of the following restrictions:
Most classic dynpro transactions run not only in SAP GUI but also in Web-GUI. Web-GUI requires zero footprint, no installations on the end-user PCs, and runs on different operating systems and thus simplifies administration. PI-sheets only run in SAP GUI for Windows, which still has to be installed on end-user PCs.

PI-sheets only run in SAP GUI. They do not run in the Web UI. SAP offers a lot of innovations in Fiori. Fiori and Web-Gui applications can be launched from the Fiori launch pad. Users will miss the innovations shipped in the Fiori environment.

PI-sheets run in an HTML plugin, which uses MS Internet Explorer technology. Please check

Custom Code Check / Adaption

Custom enhancements and modifications of Browser-based Process Instruction Sheets/Electronic Work Instructions in SAP S/4HANA will not work for successor UIs/PODs in SAP DMC.

Due to the tight integration of browser-based PI Sheets/Work Instructions and Production Operator Cockpit functionality (see note 2270235 S4TWL - Process Operator Cockpits) please perform a combined custom code check.

After switching from browser-based PI Sheets/Electronic Work Instructions to a successor solution in SAP DMC check your custom code in context of data transfer from browser-based PI Sheets/Electronic Work Instructions to whatever receiver and clean-up your custom code that makes use of Browser-based Process Instruction Sheets/Electronic Work Instructions functionality. The below (incomplete) list is an entry point for the analysis of your custom code. Make sure that with end of support of the compatibility scope item no newly entered or changed data is transferred with any custom code from browser-based PI Sheets/Electronic Work Instructions and that no custom code initiates save of data (create/update) to respective database tables.

Transactions (no call or clone in custom code)

- CO55 Worklist for Maintaining PI Sheets
- CO60 Find PI Sheet
- CO60E PI Sheet: Change
- CO60XT Find Work Instructions
- CO64 Worklist for Completing PI Sheets
- CO67 Worklist for Checking PI Sheets

Database tables (no save of data through custom code)

- POC_DB_APPL_STEP Domain Model: Application Steps
- POC_DB_ARC_CONN Optical Archiving: Link Data (ArchiveLink)
- POC_DB_C_COMMAND Domain Model: Command Collection
• POC_DB_C_COMMENT Domain Model: Comment Collection
• POC_DB_C_DEVIAT Domain Model: Deviation Collection
• POC_DB_C_DEVVAR Domain model: Collection for variable setting (deviation)
• POC_DB_C_METADAT Domain Model: Local Value Collection
• POC_DB_C_OPER Domain Model: Operation Collection
• POC_DB_C_PARTIT Domain Model: Partition Element Collection
• POC_DB_C_PREDEC Domain Model: Predecessor Table
• POC_DB_C_SERVICE Domain Model: Service Operation Collection
• POC_DB_C_STEP Domain Model: Step Collection
• POC_DB_C_SYTABLE Domain Model: Variable Collection (Symbol Table)
• POC_DB_C_TRIGGER Domain Model: Trigger Collection
• POC_DB_C_VALUE Domain Model: Value Container Collection
• POC_DB_COMMAND Domain Model: Table for Step Commands
• POC_DB_CONF_REQ Domain Model: Table for Signature Requests
• POC_DB_DATA_REQ Domain Model: Table for Data Requests
• POC_DB_DEV_SIGN Signature Key: Metadata Signature Process Step
• POC_DB_DOMAIN Domain Model: Database Table for Domains
• POC_DB_EVT_SIGN Signature Keys: Metadata for Event Log
• POC_DB_EXEC_REQ Domain Model: Table for Execution Request
• POC_DB_EXEC_STRA Domain Model: Table for Execution Strategies
• POC_DB_MESS_REQ Domain Model: Table for Message Requests
• POC_DB_OPERATION Domain Model: Table for Operations
• POC_DB_PARTITION Domain Model: Partition
• POC_DB_PROC_STEP Domain Model: Table for Process Steps
• POC_DB_PROTOCOL Domain Model: Event Log for Process Steps
• POC_DB_REAS_SIGN Signature Key: Meta Data Reason for Value Change
• POC_DB_SIG_HANDL Domain Model: Signature Handler
• POC_DB_SIGNATURE Domain Model: Signature
• POC_DB_STEP Domain Model: Table for Step Basic Data
• POC_DB_STEP_SIGN Signature Key: Metadata Signature Process Step
• POC_DB_TRIG_PROT Logging: Trigger for Event in Domain Model
• POC_DB_VALUE Domain Model: DB Table for Value Container

Programs (no call or clone in custom code)

• RCOPOC_CO55 Worklist for Maintaining PI Sheets
• RCOPOC_CO60E Program PCOPOC_CO60E
• RCOPOC_CO64 Worklist for Maintaining PI Sheets
• RCOPOC_CO65 Worklist for Checking PI Sheets
• RCOPOC_PIWKLT_ARCHIVE Archiving of PI Sheets/Work Instructions
• RCOPOC_TEST_XML_GENERATOR Test: Generate and Download XML File for Control Recipe
• RCOPOC_TEST_XML_PARSING Test Program for Parsing an XML Document for a PI Sheet
- RCOPOC_TESTFRAME_GEN Function Module testframe generation
- RCOPOC_WKLT Worklist for PI Sheets/Work Instructions
- RCOPOC_WKLT_ARC_PROD_INS Worklist of Archived PI Sheets/Work Instructions

Function Modules (no call or clone in custom code)

- COCB_READ_PI_COMPONENTS Material Listing for PI Sheet
- COCB_TRANSFER_CR_TO_MDE Transferring Control Recipe to Manual Data Entry (PI Sheet)
- COMH_CREATE_MESSAGE_NO_DIALOG Generating Status Confirmation for a PI Sheet
- COP0_ARCHIVE_PI_SHEET Archivieren aller Prozeßvorgabenlisten zu einem Batchrezept
- COP0_DELETE_PI_SHEET Löschen von Herstellanweisungen abhängig vom Prozeßauftrag
- COP0_EDIT_PI_SHEET Bearbeiten von Prozeßvorgabenlisten
- COP0_GET_MODE_OF_PI_SHEET Liefer Modus des aktuell bearbeiteten PI-Sheets
- COP0_GET_PI_SHEET_DEVIATIONS Liefer die Abweichungen zu einem PI-Sheet
- COPF_OPC_ITEM_WRITE2 NOTRANSL: OPC Herstellanweisung: Lesen eines OPC-Item-Werts
- COPF_OPC_ITEM_WRITE_CHAR NOTRANSL: OPC Herstellanweisung: Schreiben eines OPC-Item-Werts
- COPF_OPC_ITEM_WRITE_FLOAT NOTRANSL: OPC Herstellanweisung: Schreiben eines OPC-Item-Werts
- COPF_OPC_ITEM_WRITE_MULTIPLE NOTRANSL: OPC Herstellanweisung: Lesen eines OPC-Item-Werts
- COPF_OPC_ITEM_WRITE_TIME NOTRANSL: OPC Herstellanweisung: Schreiben eines OPC-Item-Werts
- COPI_CHAR_IN_PI_SHEETS NOTRANSL: Verwendungsnachweis eines Merkmals in Prozeßvorgabenlisten und
- COPI_CHECK_CHAR_IN_PI_SHEETS NOTRANSL: Verwendungsnachweis für Merkmale in Prozeßvorgabenlisten und Mel
- COPI_CREATE_ELECTRONIC_SIGN
- COPI_CREATE_NON_INPUT_MS
- COPI_DPS_TEXT_UPDATE
- COPI_EDIT_NEW_DPS_TEXT_VERSION
- COPS_DELETE_PI_SHEET Deleting all Data Records for a PI Sheet
- COPS_FEATURE_VARIABLE_UPDATE Saving PI Sheet Variables
- COPS_MDE_FEATURE_UPDATE Database Update for PI Sheet Process Instructions
- COPS_MDE_MESSAGE_UPDATE Storing Data for Manual Data Entry
• COPS_MS_FT_ASSIGNM_UPDATE Storing Assignment Table of Process Messages and Instructions
• COPS_SIGNATURE_RECORDS_UPDATE
• COPT_BUFFERED_SAVE_TEXT Storing PI Sheet Texts with Buffer
• PISHEET_GET_EVENTS_GLOBAL NOTRANSNL: Herstellanweisung: Liste von globale Events
• PISHEET_GET_EVENTS_LOCAL NOTRANSNL: Cockpit: lokale Events
• PI_SHEET_GET_STATE NOTRANSNL: Neue & alte Herstellanweisung: Lesen des Status
• PI_SHEET_PRINT_WITH_EBR_STYLE NOTRANSNL: Neue Herstellanweisung: Anzeige/Ausdruck im EBR-Layout
• PI_SHEET_SHOW NOTRANSNL: Neue & alte Herstellanweisung: Anzeige (Anzeige-/Änderungsmodus)

BAdI's with interface methods (check for custom implementation)

• BADI_CMX_POC_ASYNC_SIGN Handle XML change error
  o IF_BADI_CMX_POC_ASYNC_SIGN~CHANGE_ABORT_MESSAGE
• BADI_CMX_POC_DYN_SIGN_STRAT Enhancements for Dynamic Selection of Signature Strategies
  Interface methods IF_BADI_CMX_POC_DYN_SIGN_STRAT~
  o ADJUST_PI_CHECK_MESSAGE Check Process Instruction: Set Suited Message Texts
  o CHECK_DYN_SIGN_STRAT_ALLOWED Check that Dynamic Signature Strategy Function is Allowed
  o EXECUTE_INSTR_SEMANTIC_CHECK Executes Additional Checks during Semantic Check
  o EXECUTE_XS_INSTR_CONTENT_CHECK XStep-based Process Instruction: Executes Additional Checks
  o GET_CUST_DOMAIN_SUBCLASS Value Search: Returns Information on Characteristic & Subcl.
  o HANDLE_FAILED_VALUE_SEARCH Search for Selected Signature Strategy: Error Handling
  o RESET_STRAT_TO_PLACEHOLDER Reset Signature Strategy to Placeholder Value
• BADI_CMX_POC_REASON_VAL_CHG Processing of Reasons for Value Changes
  Interface methods IF_BADI_CMX_POC_REASON_VAL_CHG~
  o CHECK_COMMENT_OF_REASON Checks the Entered Comment of Reason for Value Change
  o CHECK_REASON_VAL_CHG_ALLOWED Checks that Processing of Reasons is Allowed
• ES_RCOPOC_WKLT
• ES_SSAPLCMX_PII_CP_SRV_DST_PMC Enhancement PI Interpreter (Name of Destination)

Other Terms

Packages COPOC, CMX_POC, CMX_PII, Transactions CO55, CO60, CO60E, CO60XT, CO64, CO67

29.39S4TWL - Internet Kanban

Application Components: PP-KAB-CRL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2268082</td>
<td>S4TWL - Internet Kanban</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Internet Kanban allowed suppliers to log onto a manufacturer's system and view the status of Kanban containers in the manufacturer's system. It used a primitive browser UI to support suppliers without SAP-GUI. Adjustments were required but sensitive from a security point of view. Deep HTML knowledge was required to implement the required adjustments.

With the availability of the HTML-GUI, it is no longer necessary to hand-craft your own UIs. FIORI UIs will be another alternative in the future to display the Kanban status.

Business Process related information

There are several alternatives to internet Kanban

• Use SNC for supplier collaboration
• Give suppliers access to Transaction PK13N in the HTML-GUI and adapt it to your needs using screen personas
Transaction not available in SAP S/4HANA on-premise edition 1511

**Required and Recommended Action(s)**

Check whether you grant access to transaction PKW1 to your suppliers.

**Related SAP Notes**

Custom Code related information | SAP Note: 2228178
30. Logistics – PP/DS

30.1 S4TWL - Performance optimizations for publication of planning orders

Application Components: SCM-APO-PPS, SCM-APO-INT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2643483</td>
<td>S4TWL - Performance optimizations for publication of planning orders</td>
</tr>
</tbody>
</table>

Symptom

You are doing a upgrade to SAP S/4HANA 1809. The following SAP S/4HANA Transition Worklist item applies, if you are using Production Planning and Detailed Scheduling (PP/DS).

Reason and Prerequisites

Reason: Upgrade from S/4HANA for Production Planning and Detailed Scheduling (PP/DS) to SAP S/4HANA 1809.

Prerequisite: Target release is SAP S/4HANA 1809. Source release is SAP S/4HANA 1610 or SAP S/4HANA 1709.

Solution

Description

PP/DS order publishing for planning orders (Planned orders, Purchase requisitions, stock transfer requisitions) is optimized to improve performance. This has resulted in changes in the way BAdI’s/User exits are called during publication from PP/DS.

Business Process related information

Advanced Planning (PP/DS) is used for production planning and planning receipts are integrated back to SAP S/4HANA from live-cache.

Required and Recommended Action
If none of the relevant BAdI's or user exist are not implemented, no action is needed. The upgrade will be automatic and system will switch over to the new optimized logic.

If you have implemented an effected BAdI's/user exists, the system will retain old publication logic post upgrade.

This check is made only once while publishing of orders is happening for the first-time.

Post upgrade, you need implement your custom code in the new BAdI's as well, in addition to the existing available publication BAdI's/user exits to support optimized flow of planning orders. To switch further to optimized logic, an entry "X" need to be made in table /SAPAPO/PUB_CHK.

**How to Determine Relevancy**

This Simplification Item is relevant if Advanced Planning (PP/DS) is used for production planning and planning receipts are integrated back to SAP S/4HANA from live-cache and relevant BAdI's/User exits for publishing of orders from PP/DS to PP are implemented.

The following are relevant BAdIs:

/SAPAPO/DM_PO_CHANGE
/SAPAPO/DM_PO_CHAN2
/SAPAPO/CL_EX_CIF_OP
/SAPAPO/DM_PO_MNTN
/SAPAPO/CL_EX_CIF_IP
/SAPAPO/SMOY_PUB_APP
/SAPAPO/DM_CP_CBCLP

The following are relevant Customer exits:

EXIT_SAPLCRV5_001
EXIT_/SAPAPO/SAPLCIF_RSV_001
EXIT_SAPLCSLS_003
EXIT_SAPLCPUR_001
EXIT_/SAPAPO/SAPLCIF_PU_001'
EXIT_SAPLCORD_005'
EXIT_/SAPAPO/SAPLCIF_ORD_001'
EXIT_SAPLCORD_002'
EXIT_SAPLCORD_001'

The following is the new BAdI that needed adaptation.

/SAPAPO/PPDS_ORDER_INT
Other Terms

PP/DS

PPDS

S/4HANA 1809

Order Publishing
31. Logistics – PS

31.1 S4TWL - Workforce Planning

Application Components: PS-CRP-WFP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267189</td>
<td>S4TWL - Workforce Planning</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Workforce Planning in Project System is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Workforce Planning can be found under the ID 472.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

Business Process related information

There are currently several workforce planning functions such as usage of PS teams and transactions CMP2/CMP3/CMP9 available.

The following transactions are part of the compatibility scope

- CMP2 Workforce Planning: Project View
- CMP3 Workforce Planning: Work Center View
- CMP9 Workforce Planning - Reporting

As part of the roadmap it is planned to modernize workforce planning. It is planned to include the modernized workforce planning into the perpetual scope of S/4HANA.
Required and Recommended Action(s)

None

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade

31.2 S4TWL - Project Claim Factsheet

Application Components: PS-CLM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267283</td>
<td>S4TWL - Project Claim Factsheet</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA 1511 the Project Claim factsheet will not be available anymore. As of SAP S/4HANA 2022 the Fiori app Project Claim Overview (F6497) and the related Project Claim object page is available as a alternative (see note 2267169).

Business Process related information

No influence on business processes expected

Required and Recommended Action(s)

- Use Fiori App for Project Claim (SAP S/4HANA 2022 or higher)
- if applicable also usage of Project Issue and Change Management functionality can be considered for appropriate business requirement.
- Knowledge Transfer to key- and end-user
31.3 S4TWL - Selected Project System Interfaces

Application Components: PS-ST-INT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267288</td>
<td>S4TWL - Selected Project System Interfaces</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Selected Project System Interface are not available in SAP S/4HANA 1511:

- OpenPS for Microsoft Project for a bidirectional data exchange with Microsoft Project (the usage of SAP Enterprise Project Connection (EPC) for a data exchange with Microsoft Project Server could be considered instead) transaction OPENPS for the download of activities to Palm Pilot
- MPX up- and download functions including transactions CN06 and CN07 and related functions in PS reporting transactions such as CN41 etc.
- Export to Graneda and Microsoft Access (see also 1670678 - New features in SAP GUI for Windows 7.30 )

Business Process related information

The selected interfaces listed above will not be available anymore in SAP S/4HANA 1511. Alternative solutions such as SAP Enterprise Project Connection or leveraging PS BAPIs should be considered.

<table>
<thead>
<tr>
<th>Transaction Codes not available in SAP S/4HANA</th>
<th>CN06</th>
<th>MPX Download: Standard Network</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CN07</td>
<td>MPX Upload: Standard Network</td>
</tr>
<tr>
<td></td>
<td>OPENPS</td>
<td>Download Activities to Palm Pilot</td>
</tr>
</tbody>
</table>
Required and Recommended Action(s)

Knowledge Transfer to key- and end user.

31.4 S4TWL - Construction Progress Report and Valuation

Application Components: PS-REV-CPR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267289</td>
<td>S4TWL - Construction Progress Report and Valuation</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The Construction Progress Report and Valuation function is not available in SAP S/4HANA 1511.

Business Process related information

The Construction Progress Report and Valuations functions and related transactions are not available in SAP S/4HANA 1511.

Transaction Codes not available in SAP S/4HANA

<table>
<thead>
<tr>
<th>Transaction Codes not available in SAP S/4HANA</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>/SAPPCE/PNV01</td>
<td>Create Construction Progress Report</td>
</tr>
<tr>
<td>/SAPPCE/PNV03</td>
<td>Display Construction Progress Report</td>
</tr>
<tr>
<td>/SAPPCE/PNV04</td>
<td>Display construction progress report</td>
</tr>
<tr>
<td>/SAPPCE/PNV05</td>
<td>Create and Change CPR</td>
</tr>
<tr>
<td>/SAPPCE/PNV07</td>
<td>Create and Change Remaining Plan</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)
Knowledge Transfer to key- and end-user. A customer specific solution or a switch to SAP standard functions should be considered.

### 31.5 S4TWL - Project System ITS Services

Application Components: PS-CON

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267331</td>
<td>S4TWL - Project System ITS Services</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The following ITS services in Project System are not available any longer in S/4HANA as of SAP S/4HANA 1511:

- CNW1 WWW: Confirmation
- CNW4 Project Documents
- SR10 Claims

**Business Process related information**

Selected ITS services for document search, confirmations and creation of claims are not available as of SAP S/4HANA 1511.

**Required and Recommended Action(s)**

Knowledge Transfer to key- and end user.
31.6 S4TWL - Selected PS Business Function Capabilities

Application Components:PS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267333</td>
<td>S4TWL - Selected PS Business Function Capabilities</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Selected PS Business Function capabilities are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, selected PS Business Function capabilities can be found under the ID 468.

As of SAP S/4HANA 1511 - FPS1 the following business functions are switchable but obsolete:

- OPS_PS_CI_3
- LOG_XPD_EXT_1

The following PS business functions are part of the compatibility scope

- OPS_PS_CI_1
- OPS_PS_CI_2

The following transactions are hence categorized not to be the target architecture:

- CN08CI Config. of Commercial Proj Inception
- CNACLDPD PS ACP Deletion Program transaction
- CNSKFDEF SKF defaults for project elements
Basic Information related to Business Functions

If a business function was switched “ON” in the Business Suite start release system, but defined as “always_off” in the SAP S/4HANA, on-premise edition target release, then a system conversion is not possible with this release. See SAP Note 2240359 - SAP S/4HANA, on-premise edition 1511: Always-Off Business Functions. If a business function is defined as ”customer_switchable” in the target release (SAP S/4HANA, on-premise edition 1511 – FPS1), then the business function status remains unchanged from the status on start release. Business Functions defined as “obsolete” cannot be switched “ON”

Business Process related information

Customer having one or all of these business functions switched “ON” in Business Suite start release can execute the system conversion. Customers having none of these business functions switched “ON” in Business Suite start release cannot activate the obsolete business functions after the system conversion to SAP S/4 HANA 1511.

The Business Function LOG_XPD_EXT_1 is flagged as obsolete as of SAP S/4HANA 1511 - FPS1. The functionality covered in the business function has been modernized along with Progress Tracking in SAP S/4HANA 2022. With this modernization, the functionality becomes part of the perpetual scope of SAP S/4HANA. It is planned to remove the obsolete flag for the business function with SAP S/4HANA 2022 FPS2.

The Business Functions OPS_PS_CI_1 and OPS_PS_CI_2 are available and selectable with SAP S/4HANA 1511.

Topics in planning

The following features are currently under investigation. It is planned to modernize the functions with S/4 capabilities.

OPS_PS_CI_1:

- Performance improvements through allocation of status combinations
  it is planned modernize the topic of status combination codes by support of reading via status combination codes in the OData APIs. With this modernization it is planned to move the feature to the perpetual scope.

OPS_PS_CI_2:

- Option for the Down Payment Clearing of Billing Plans and Invoicing Plan
  it is planned to modernize the topic of Cash Management, see also 2267182. With this modernization it is planned to move the feature to the perpetual scope of S/4HANA.
Modernized topics

Project Builder enhancements

Project Builder enhancements consist of

- Display of archived projects (OPS_PS_CL_1)
- Intermediate save (OPS_PS_CL_1)
- Display of more than 5 projects in work list (OPS_PS_CL_1)
- Performance Improvements in the Project Builder and Network Transactions (OPS_PS_CL_2)
- Collective purchase requisitions (OPS_PS_CL_1)
- Multilanguage short texts (OPS_PS_CL_1)

The topic of Project Builder enhancements has been modernized by

- Display of archived multilanguage short texts in Project Builder (SAP S/4HANA 2022 FPS0)
- Support of multilanguage short texts in Fiori apps (SAP S/4HANA 2021 FPS2)
- Support of a new processing layer for creating purchase requisitions from network activities (SAP S/4HANA 2022 FPS1)

All of the above features are carved out of the given business function as of SAP S/4HANA 2022 FPS1 and with the modernization are part of the perpetual scope of SAP S/4HANA.

Project-Oriented Procurement (ProMan) enhancements

With SAP S/4HANA 2021 Project-Oriented Procurement is enhanced by support for multiple business partner addresses as part of the purchasing integration. The enhanced Project-Oriented Procurement is available as part of SAP S/4HANA perpetual scope. This includes also the enhancements to ProMan included in Business Function OPS_PS_CL_1. See also Note 2267384.

Progress Tracking and Progress Analysis enhancements

- Progress Tracking enhancements
- Progress Analysis Workbench enhancements

With SAP S/4HANA 2022 FPS0 Progress Tracking and Progress Analysis Workbench are enhanced by support of key-user extensibility. The enhanced functionality is available as part of SAP S/4HANA perpetual scope. This includes also the enhancements included in Business Function OPS_PS_CL_1 and LOG_XPD_EXT_1. See also Note 2267190.

Cost Calculation

- Easy Cost Planning for Network Activities
- Business Add-Ins for Calculation in the Project System
With SAP S/4HANA 2022 FPS0 Cost Calculation is modernized by support of ADOCP. The enhanced cost calculation is available as part of SAP S/4HANA perpetual scope. This includes also the enhancements included in Business Function OPS_PS_CI_1. See also Note 3033658.

**New extractors for BI content**

- PROJECT_CUST_ATTR Customer Fields for Project Def. (ci_proj)
- WBS_ELEM_CUST_ATTR Customer Fields for WBS Element
- NETWORK_CUST_ATTR Customer Fields for network
- ACTIVITY_CUST_ATTR Customer Fields for Network Activity
- ACTIVITY_ELEM_CUST_ATTR Customer Fields for Activity Element
- WBS_ELEM_USR_ATTR User Fields for WBS Element
- ACTIVITY_USR_ATTR User Fields for Network Activity
- ACTIVITY_ELEM_USR_ATTR User Fields for Activity Element
- PS_CLM_ECP Data for Claim
- PS_WBS_ECP ECP for WBS-element
- PS_NWA_ECP ECP for network activities
- PS_NAE_ECP ECP for activity elements
- PROJECT_TEXT Project Definition
- WBS_ELEM_TEXT Work Breakdown Structure Element
- NETWORK_TEXT Network Number

The above extractors are modernized by modernization of the related topic, i.e.

- Support of key-user extensibility for projects (SAP S/4HANA 2020 FPS2)
- Modernization of user-field display (SAP S/4HANA 2020 FPS0)
- Modernization of Easy Cost Planning (SAP S/4HANA 2022 FPS0)
- Modernization of multi-language texts (SAP S/4HANA 2022 FPS0)

With these modernizations, the extractors above are part of the perpetual scope of SAP S/4HANA.

**OPS_PS_CI_1:**

- Change Inherited Settlement Rules
  the topic of settlement rule is modernized by substitution and validation of WBS element settlement rule parameters (SAP S/4HANA 2022 FPS1). With the modernization the functionality becomes part of the perpetual scope of SAP S/4HANA.
- Project System Material Component enhancements
  the topic of project system material components is modernized by support of a new processing layer for creating purchase requisitions from network activities (SAP S/4HANA 2022 FPS1) as well as by the modernization of the Open Catalog Interface (SAP S/4HANA 2022 FPS1). With these modernization the functionality becomes part of the perpetual scope of SAP S/4HANA.
- Determine WBS Account Assignment at MRP Area Level
  the topic of WBS Account Assignment determination at MRP Area Level is modernized by the usage in enhanced Project Manufacturing Management and
Optimization (PMMO) scenarios (SAP S/4HANA 2020). With these modernization the functionality becomes part of the perpetual scope of SAP S/4HANA.

**OPS_PS_CI_2:**

- Display of Nonarchived and Archived Line Items
  the topic of line item reports is modernized by the new Fiori app Project Cost Line Items (SAP S/4HANA 2022 FPS1), see also note 2267286. With the modernization the functionality becomes part of the perpetual scope of SAP S/4HANA.

Topics that stay in compatibility scope

The following features can be used as part of the compatibility scope. There are no plans to modernize the functionality, hence usage rights expire with the expiry date of the compatibility scope.

**OPS_PS_CI_1:**

- Forecast Workbench
- Access Control Lists
- Display of statistical key figures on an additional tab page
- New extractors for BI content
  - Network: Statistical Key Figure
  - Network Activity: Statistical Key Figure
  - Netw. Act. Element: Statistical Key Figures

**OPS_PS_CI_3:**

The business function provides an optimization for Resource-Related Billing (RRB) for the source Actual costs - line items. As an alternative, consider using the optimization provided with SAP Note 2677564 or evaluate the usage of the new source Actuals Cost from Univ. Jrnl (Actuals Cost from Universal Journal) available as of SAP S/4HANA 2022.

**Required and Recommended Action(s)**

Check this note for regular updates on modernizations of the business function capabilities.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade
31.7 S4TWL - Selected Project System BAPIs

Application Components: PS-ST

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2267386</td>
<td>S4TWL - Selected Project System BAPIs</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The Project System (PS) BAPIs referring to business objects ProjectDefinition, Network, and WorkBreakdownStruct (as part of CN package) are not considered as the target architecture in SAP S/4HANA 1511 (Functionality available in SAP S/4HANA 1511 delivery but not considered as future technology. Functional equivalent available.). The functionality is still available in SAP S/4HANA 1511, but it is recommended to use the corresponding BAPIs for business objects ProjectDefinitionPI, NetworkPI, and WBSPPI (within package CNIF_PI) instead.

**Business Process related information**

No influence on business processes expected – functionality still available

**Required and Recommended Action(s)**

It is recommended to verify if it is possible to use the corresponding BAPIs for business objects ProjectDefinitionPI, NetworkPI, and WBSPPI (within package CNIF_PI).

---

31.8 S4TWL - Handling Large Projects Business Functions

Application Components: PS-HLP

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2352369</td>
<td>S4TWL - Handling Large Projects Business Functions</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Project System business functions for Handling Large Projects and related transactions are not the target architecture anymore in SAP S/4HANA.

With SAP S/4 HANA 1511 - FPS1 hence the following business functions are switchable (to enable technical conversion) but obsolete:

- OPS_PS_HLP_1
- OPS_PS_HLP_2

The following transactions and related IMG activities are categorized not to be the target architecture and cannot be used any longer with SAP S/4HANA:

- PSHLP10 Project Worklist
- PSHLP20 Project Editor
- PSHLP30 Draft Workbench
- PSHLP90 Administrator Workbench

**Basic Information related to Business Functions**

*If a business function was switched “ON” in the Business Suite start release system, but defined as “always_off” in the SAP S/4HANA, on-premise edition target release, then a system conversion is not possible with this release. See SAP Note 2240359 - SAP S/4HANA, on-premise edition 1511: Always-Off Business Functions. If a business function is defined as "customer_switchable" in the target release (SAP S/4HANA, on-premise edition 1511 – FPS1), then the business function status remains unchanged from the status on start release. Business Functions defined as “obsolete” cannot be switched “ON”*

**Business Process related information**
Customer having these business functions switched “ON” in Business Suite start release can execute the system conversion. Nevertheless the functionality related to the business functions OPS_PS_HLP_1, OPS_PS_HLP_2 are not available within SAP S/4 HANA 1511. Customers having none of these business functions switched “ON” in Business Suite start release cannot activate these business functions after the system conversion to SAP S/4 HANA 1511.

Alternative standard functions should be considered. Instead of Handling Large Projects transactions e.g. the Project Builder transaction should be used.

**Required and Recommended Action(s)**

None

### 31.9 S4TWL - Hierarchy Graphics in Project Systems

**Application Components:** PS

**Related Notes:**

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
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<td>Business Impact</td>
<td>3000979</td>
<td>S4TWL - Project Hierarchy Graphic</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Hierarchy Graphic in Project System is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, hierarchy graphic in Project System can be found under the ID 465.
Hierarchy graphic is used to visualize the WBS element hierarchy. The existing graphical views hence are categorized as not part of the target architecture (Functionality available in SAP S/4HANA 1511 delivery but not considered as future technology). In order to display the project hierarchy (in a non-graphical way) you can use the Project Builder (CJ20N) or any other transaction listing project elements hierarchically.

**Business Process related information**

Existing graphics and corresponding transactions can be used as part of the SAP S/4HANA compatibility scope until end of expiry date. There is no alternative planned for a graphical visualization.

In order to display the project hierarchy (in a non-graphical way) you can use the Project Builder (CJ20N) or any other transaction listing project elements hierarchically.

**Required and Recommended Action(s)**

Knowledge Transfer to key- and end user

---

**31.10S4TWL - Project System Analytical Apps**

Application Components: PS-IS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3112420</td>
<td>S4TWL - Project System Analytics Apps from Smart Business for Project Execution</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**
You are using Project System analytical apps from Smart Business for Project Execution. These apps are not available in SAP S/4HANA.

**Business Process related information**

Project System analytical apps from Smart Business for Project Execution are not available with SAP S/4HANA, this includes the following SAP Fiori Apps:

- F0293  WBS Element Cost Variance
- F0294  WBS Element Costs at Risk
- F0297  Due Project Milestones
- F0298  Overdue Project Milestones
- F0299  Overdue Project PO Items
- F0300  Due Project PO Items
- F0301  Due Network Activities
- F0302  Overdue Network Activities
- F0303  Due WBS Elements
- F0304  Overdue WBS Elements
- F0305  Project Missing Parts
- F0306  Project Open Reservations
- F0630  WBS-Element Revenue Variance
- F0632  WBS-Element Exceeding Work
- F0633  WBS-Element Pending Work
- F0635  Project Report
- F0696  WBS Element Percentage of Completion
- F0697  WBS Element Earned Value
- F0698  Project Earned Value
- F0699  Project Percentage of Completion

**Required and Recommended Action(s)**

For use cases in the area of basic list reporting the project related Fiori apps (e.g. Project Definition Overview F1976, WBS Element Overview F1974, Milestone Overview F1975, Manage Project Procurement F2930) should be considered.

**31.11S4TWL - Project System - Compatibility Scope**

Application Components:PS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3265838</td>
<td>S4TWL - Project System - Compatibility Scope</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

This note summarizes Project System functionality that remains part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. Below is an overview of the features and the relevant entries in the compatibility matrix attached to SAP note 2269324.

Business Process related information

Project Reporting (Simplification Item ID 459)

- Change documents (CJCD): WBS: consider using Change Documents for Projects/Netw. (CN60)
- Change Documents for Network (CODC): consider using Change Documents for Projects/Netw. (CN60)
- Project Actual Cost Line Items (CJI3): consider using Project Actual Cost Line Items (CJI3N)
- Data Transfer to SAP-EIS (CJSA): no alternative planned
- Select Key Figure and Characteristic (CJSB): no alternative planned

Consistency check transactions (Simplification Item ID 460)

- CNC4 Consistency checks for project structure
- CNC5 Consistency checks sales order/proj.

The above transactions are used to check consistency of master data within the project structure or between project and sales order. For selected use cases validation can be used as an alternative.

Progress Tracking & Monitoring Dates (Simplification Item ID 464)

- Monitoring Network Dates (NWTM): consider using Progress Tracking

Required and Recommended Action(s)
Review and evaluate the provided alternatives where applicable.

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, Project System

31.12S4TWL - Navigation to Project Builder instead of special maintenance functions

Application Components:PS

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270261</td>
<td>S4TWL - Navigation to Project Builder instead of special maintenance functions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

With SAP S/4HANA 1511 the target for links and references in reports CJI3N, CJI4N, CN41, CNS0 is going to the single maintenance transaction CJ20N (Project Builder).

Business Process related information

Required and Recommended Action(s)

End user knowledge transfer required to switch from multiple transactions to single maintenance transaction CJ20N.

Custom Code related information

In case of custom code for special maintenance functions only, customer should consider to enable the custom code for the Project Builder transactions
31.13S4TWL - Production Resources and Tools functions for projects

Application Components: PS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270262</td>
<td>S4TWL - Production Resources and Tools functions for projects</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Production Resources and Tools functions for projects is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Production Resources and Tools functions for projects can be found under the ID 463.

Business Process related information

Production Resources and Tools functions for projects can be used as part of the compatibility scope.

Required and Recommended Action(s)

Knowledge Transfer to key- and end user, usage of alternatives to PRTs need to be considered

Other Terms
SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, PRT

31.14S4TWL - Specific PS archiving transactions

Application Components: PS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270265</td>
<td>S4TWL - Specific PS archiving transactions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Project system specific archiving is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Project system specific archiving can be found under the ID 470.

This means that you need to migrate from Project system specific archiving to its designated alternative functionality central archiving (transaction SARA) before expiry of the compatibility pack license. This note shall provide an overview on the scope of Project system specific archiving which is going to expire with the compatibility pack license, how this maps to the designated alternative functionality, if this alternative functionality is already available or when it’s planned to be available and how you can migrate to the alternative functionality.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

Business Process related information
The following Project system specific archiving transactions are part of the compatibility scope:

- CN80 Archiving project structures
- CN81 PS: Archiving project - preliminary
- CN82 PS: Archiving project structures
- CN83 PS: Archiving project - Info System
- CN84 PS: Archiving project - admin.
- CN85 PS: Delete operative structures
- CN99 Archiving Standard Networks
- KBEA Trsfr Price Docs: Set Del.Indicator
- KBEB Trsfr Price Docs: Generate Archive
- KBEC Trsfr Price Docs: Manage Archive

Going forward it is recommended to use the central archiving transaction SARA instead.

**Required and Recommended Action(s)**

As Project system specific archiving can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Though the decision, at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

- It is recommended to use central archiving transaction SARA instead of project system specific transactions.
- Knowledge Transfer to key- and end-user

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, Archiving

**31.15S4TWL - Project texts (PS texts)**

Application Components: PS

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270266</td>
<td>S4TWL - Project texts (PS texts)</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Project texts (PS texts) are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Project Texts can be found under the ID 466.

The current project texts functionality can be used until the expiry date of the compatibility scope. This includes the transactions

- CN04 Edit PS Text Catalog
- CN05 Display PS Text Catalog

Business Process related information

With SAP S/4HANA 2021 FPS1 renewed project texts are available. Renewed PS texts provide a modernized persistency and the Fiori app Project Text for maintenance, while covering similar features like the previous solution.

Required and Recommended Action(s)

Existing PS texts records can be migrated to the renewed PS texts model by using the report “CN_PS_TEXT_MIGRATION”. The migration is client-dependent, to activate the renewed PS texts, use IMG node “Activation of renewed PS Text”.

31.16S4TWL - Selected project financial planning and control functions

Application Components: PS-COS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267182</td>
<td>S4TWL - Selected project financial planning and control functions</td>
</tr>
</tbody>
</table>
**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

Selected project financial planning and control functions are part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, selected project financial planning and control functions can be found under the ID 462.

This note shall provide an overview on the scope of selected project financial planning and control functions which are going to expire with the compatibility pack license, how this maps to the designated alternative functionality, if this alternative functionality is already available or when it’s planned to be available and how you can migrate to the alternative functionality.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.

**Business Process related information**

The following project financial planning and control functions can be used as part of the SAP S/4HANA compatibility scope.

Please also refer to Feature Scope Description.

**Topics in planning**

**PS Cash Management**

- CJFA Analysis of Data Trans. into PS Cash
- CJFN CBM Payment Converter
- CJ48 Change Payment Planning: Init.Screen
- CJ49 Display Payment Planning: Init.Screen
- FM48 Change Financial Budget: Initial Scn
- FM49 Display Financial Budget: Init.Scnn
It is planned to modernize Cash Management by reading from the universal journal. With this modernization it is planned to move Cash Management to the perpetual scope of S/4HANA.

Forecasting

- CJ9L Forecast Costs: Individual Projects

It is planned to modernize Forecasting by a new Fiori app to schedule project forecasting jobs. With this modernization it is planned to move Forecasting to the perpetual scope of S/4HANA.

Modernized topics

This section contains topics that have already been modernized and are part of the SAP S/4HANA perpetual scope with the mentioned release.

Progress

- CNPAWB Progress Analysis Workbench (SAP S/4HANA 2022) modernized by support of key user extensibility fields

Cost Calculation

- Easy Cost Planning (SAP S/4HANA 2022)
- Network Costing (SAP S/4HANA 2022) modernized by integration into ACDOCP, the main table for financial planning in SAP S/4HANA.

Integrated Planning for Networks

- CJ9Q Integrated Planning for Ntwks(Coll.)
- CJ9QS Integrated Planning for Ntwks (Ind.) modernized by integration into ACDOCP, the main table for financial planning in SAP S/4HANA.

Revenue and Earnings

the topic of revenues and earnings has been modernized by integration into the cost tables ACDOCA and ACDOCP. Modernizations include, new dynamic item processor source for reading financial plan data from table ACDOCP (SAP S/4HANA 2022 FPS1) and new dynamic item processor source for reading actual costs from the universal journal (SAP S/4HANA 2022 FPS0).

- DP101 Reset Billing Plan Date
- DP80 SM: Resource-Related Quotation
- DP81 PS: Sales Pricing
• DP82 PS: Sales Pricing Project
• DP98 Resource for Billing Request
• DP60 Change Accounting Indicator in LI
• DP70 Conversion of Individual Orders
• RKPSANALYSE RKPSANALYSE

Interest Calculation
modernized by performance improvements (SAP S/4HANA 1511), see notes 2676316 and 2686152.

• CJZ2 Actual Int.Calc.: Project Indiv.Prc.
• CJZ3 Plan Int.Calc.: Project Indiv.Prc.
• CJZ5 Plan Int.Calc.: Project Coll.Prc.
• CJZ6 Actual Int.Calc.: Indiv.CO Order Prc
• CJZ7 Planned Int.Calc: Indiv.CO Ord.Proc.
• CJZ8 Actual Int.Calc.: Coll.CO Order Prc.
• CJZ9 Plan Int.Calc.: Coll.CO Order Prc.

Variant Creation for Project Selection for Period Close
The transaction is supporting the collective processing of various period-end closing activities. With the planned modernization of period-end closing activities, such as project interest calculations or forecasting the transaction also becomes part of the perpetual scope.

• CJ8V Period Close for Project Selection

WBS Element Groups
are modernized by support WBS element hierarchies in transactions for WBS element groups (SAP S/4HANA 2022), see note 3273309.

• CJSG Generate WBS Element Group

Copy Plan Version
The topic of copying plan versions is modernized by report "Copy plan category for projects" (SAP S/4HANA 2022 FPS1).

• CJ9D Copy Plan Versions

Settings for Time-Dependent Status for Results Analysis
The topic of results analysis is modernized by support of event-based revenue recognition for selected scenarios (SAP S/4HANA 2022 FPS1).
• CJC1 Maintenance Dialog for Stat.by Per.
• CJC2 Maintain Planned Status Changes

Compatibility Scope topics

This section contains topics that remain in compatibility scope. For these topics it is not planned to provide the existing functionality after the expiry date of the SAP S/4HANA compatibility scope.

• CNPRG Network Progress
• CNFOWB Forecast Workbench

Transfer Price Agreement

• CJF1 Create Transfer Price Agreement
• CJF2 Change Transfer Price Agreement
• CJF3 Display Transfer Price Agreement
• CJF4 Transfer Price Agreement List
• CJG1 Enter Transfer Price Allocation
• CJG3 Display Transfer Price Allocation
• CJG4 Enter Trsfr Price Allocation: List
• CJG5 Cancel Transfer Price Allocation
• CJL2 Collective Agreement

Required and Recommended Action(s)

For the modernized topics, upgrade to the relevant SAP S/4HANA release before expiry date of the compatibility scope.

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, Project System, Project Financial Planning
32. Logistics – PSS

32.1 S4TWL - PS&S SARA Reports

Application Components: EHS-HSM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267438</td>
<td>S4TWL - PS&amp;S SARA Reports</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The creation of SARA reports is not available within SAP S/4HANA. A successor functionality is on the roadmap for the on-premise release S/4HANA 1909.

Business Process related information

Transaction CBIHSR01 is not available in SAP S/4HANA.

32.2 S4TWL - Substance Volume Tracking Selection Criteria based on tables VBUK and VB

Application Components: EHS-SAF-RCK

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267439</td>
<td>S4TWL - Substance Volume Tracking Selection Criteria based on tables VBUK and VBUP</td>
</tr>
</tbody>
</table>

Symptom
You are carrying out a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

In many countries regulations require that chemicals and hazardous substances must be registered if they are purchased, imported, produced, sold, or exported in specific quantities and within a certain period. SAP Substance Volume Tracking helps companies to comply with the relevant regulations by recording the quantities of substances that need to be tracked. By comparing the recorded quantities with the limit values, the system can issue a warning in good time before a limit value is exceeded. If a limit value is exceeded, the system can also block the relevant business process. This means companies can ensure that they stay within the quantity limits.

In substance volume tracking, the system reads logistics data from the following tables depending on the scenario:

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Scenario Category</th>
<th>Tables</th>
<th>Date for Planned Quantities</th>
</tr>
</thead>
<tbody>
<tr>
<td>PUR</td>
<td>PURCHASE_REQUISITION</td>
<td>EBAN</td>
<td>EBAN-LFDAT: Delivery date of item</td>
</tr>
<tr>
<td>PUR</td>
<td>PURCHASE</td>
<td>EKKO, EKPO, EKET, MKPF, EBAN</td>
<td>EKET-EINDT: Delivery date of item</td>
</tr>
<tr>
<td>SO</td>
<td>SALES</td>
<td>MSEG</td>
<td>VBUP-EDATU: Schedule line date</td>
</tr>
<tr>
<td>SO</td>
<td>DELIVERY</td>
<td>VBAK, VBAP, VBEP, VBPA, VBUP, EKET</td>
<td>LIKP-WADAT: Planned date of goods movement</td>
</tr>
<tr>
<td>IMP</td>
<td>PURCHASE_REQUISITION</td>
<td>MKPF, MSEG, EBAN</td>
<td>EBAN-LFDAT: Delivery date of item</td>
</tr>
<tr>
<td>IMP</td>
<td>PURCHASE</td>
<td>EKKO, EKPO, EKET, MKPF, EBAN</td>
<td>EKET-EINDT: Delivery date of item</td>
</tr>
<tr>
<td>EXP</td>
<td>SALES</td>
<td>MSEG</td>
<td>VBUP-EDATU: Schedule line date</td>
</tr>
<tr>
<td>EXP</td>
<td>DELIVERY</td>
<td>VBAK, VBAP, VBEP, VBPA, MKPF</td>
<td>LIKP-WADAT: Planned date of goods movement</td>
</tr>
</tbody>
</table>

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As a result of the SAP S/4HANA data model change in Sales & Distribution, tables VBUK and VBUP are no longer supported in this Customizing activity. Selection criteria which relate to the status of a sales document need to be defined based on the corresponding header and item tables (VBAK, VBAP, LIKP and LIPS). For further details of the data model change see Simplification Item in Sales & Distribution area.

**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

Adaption of the selection criteria for substance volume tracking as described in SAP Note 2198406.

**How to Determine Relevancy**

Check the selection criteria for substance volume tracking as described in SAP Note 2198406.

### 32.3 S4TWL - Simplification in Product Compliance for Discrete Industry

Application Components: EHS-MGM-PRC

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267461</td>
<td>S4TWL - Simplification in Product Compliance for Discrete Industry</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With component extension for SAP EHS Management, customers can use the *Product Compliance for Discrete Industry* (EHS-MGM-PRC) solution for managing their product safety and stewardship business processes. In SAP S/4HANA on-premise edition 1511 and later, some functions are not available.

- BI extraction and queries for product compliance reporting including the roles SAP_EHSM_PRC_BI_EXTR and SAP_EHSM_PRC_BW_ANALYTICS
- Compliance Assessment Workflows
- Compliance Requirement Check Conflict Workflows
- Automated updated of contact person information upon import from Supplier declarations from SAP Product Stewardship Network

Business Process related information

In SAP S/4HANA on-premise edition the compliance reporting in BI is not available. For parts of the BI reporting, the compliance explorer and the exemption explorer is a functional equivalent.

If you are using *SAP Product Stewardship Network* to collaborate with your suppliers, the contact person information are not updated automatically any more in SAP S/4HANA on-premise edition.

The following compliance requirement check conflict workflow templates are not available in *SAP S/4HANA*, on-premise edition. They have been replaced with a new application that allows exploring the compliance requirement check conflicts based on native master data using CDS views.

<table>
<thead>
<tr>
<th>Workflow Template / Process Control Object</th>
<th>Class Name / Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>00600054 - EHPRCCHK_BA</td>
<td>CL_EHPRC_PCO_COMP_REQ_BASE</td>
</tr>
<tr>
<td>00600049 - EHPRCCHK_CH</td>
<td>CL_EHPRC_PCO_COMP_REQ_CHROHS</td>
</tr>
<tr>
<td>00600056 - EHPRCCHK_IM</td>
<td>CL_EHPRC_PCO_COMP_REQ_IMDS</td>
</tr>
<tr>
<td>00600069 - EHPRCCHK_JG</td>
<td>CL_EHPRC_PCO_COMP_REQ_JIG</td>
</tr>
<tr>
<td>00600053 - EHPRCCHK_SV</td>
<td>CL_EHPRC_PCO_COMP_REQ_SVHC</td>
</tr>
<tr>
<td>00600068 - EHPRCCHK_RO</td>
<td>CL_EHPRC_PCO_COMP_REQ_EUROHS</td>
</tr>
</tbody>
</table>
The following compliance assessment workflow templates are not available in SAP S/4HANA, on-premise edition. The assessment processes for components and products have been replaced with a new application that provides an overview of running assessments for products and components based on native master data using CDS views.

<table>
<thead>
<tr>
<th>Workflow Template / Process Control</th>
<th>Class Name / Event</th>
<th>Type of Assessment Process</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Object</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>00600070 - EHPRC_BMASMT</td>
<td>CL_EHPRC_PCO_BASMAT_ASSMNT</td>
<td>Basic Material Assessment</td>
</tr>
<tr>
<td>00600071 - EHPRC_COASMT</td>
<td>CL_EHPRC_PCO_COMP_ASSMNT</td>
<td>Component Assessment</td>
</tr>
<tr>
<td>00600062 - EHPRC_PRASMT</td>
<td>CL_EHPRC_PCO_PROD_ASSMNT</td>
<td>Product Assessment</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Details about the necessary activities before and after converting, you find in the attachment. Ensure that you always have the latest version of the document.

**32.4 S4TWL - Replacement of Event Type Linkages**

Application Components: EHS-SUS-DG, EHS-SUS-SDS, EHS-SUS-PMA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3196565</td>
<td>S4TWL - Replacement of Event Type Linkages</td>
</tr>
</tbody>
</table>

**Symptom**

You are using SAP S/4HANA for product compliance and are performing a system upgrade to SAP S/4HANA 2022 or higher. The following SAP S/4HANA transition worklist item SI15: Logistics_PSS is applicable in this case.

**Reason and Prerequisites**

You have activated the event type linkages in database view SWFDVEVTYP for the receiver type PCEP_V1.0 and are using a customer-specific receiver class
implementation and not the standard class CL_EHFND_PCEP_EVT_HANDLER. See also Customizing for Activate Event Type Linkage under Product Compliance -> Foundation for Product Compliance -> Product Compliance Background Processing -> Activate Event Type Linkage.

If you are using standard event receiver settings or perform an initial installation of SAP S/4HANA 2022 or higher (greenfield installation), this note is not relevant.

Solution

Description / Business Value

In SAP S/4HANA for product compliance, the event type linkages have been introduced for the following main reasons:

- Decoupling of a transaction, such as the release of a composition, from the asynchronous processing of this event to ensure proper follow-on processing of this event
- Providing a possibility to trigger customer-specific actions, such as sending an e-mail or notifying external systems that a certain event has been raised and needs follow-on processing

Due to technical restrictions, it is not allowed to use local update tasks in the context of a logical unit of work of RAP and BOBF business objects. The update task module SWF_EVT_RAISE_IN_UPDATE_TASK to raise events and carry them out in a separate update task violates the contract, which may lead to short dumps.

In order solve these technical restrictions, the overall processing logic has been changed in the following way with SAP S/4HANA 2022. The event type linkages are replaced with a central determination that has been added to all affected business objects.

- The determination is carried out during save and is supposed to check if events have been created in the same session.
- The business object saves the data (for example, as an analytical composition), creates the corresponding new event(s) (for example, Analytical Composition Released) in the table EHFNDD_PCE, and raises the system event SAP_EHFND_PCEP_EVT_CRTED to process these events in a follow-on activity.
- The system event triggers the periodically scheduled background job to process all new and failed product compliance events and tasks.

Business Process-Related Information

If you are using standard event type linkages, there are no changes to the business process. If you are using a customer-specific event type linkage in SWFDVEVTYP for
the receiver type PCEP_V1.0 and not the standard class
CL_EHFND_PCEP_EVT_HANDLER, you have to take action.

**Required and Recommended Action(s)**

You have to replace your customer implementation of the receiver class to reflect the architectural change.

**How to Determine Relevancy**

In transaction SPRO, navigate to the Customizing activity for *Activate Event Type Linkage* under *Product Compliance* -> *Foundation for Product Compliance* -> *Product Compliance Background Processing* -> *Activate Event Type Linkage*. If you have assigned the events of the receiver type PCEP_V1.0 to a nonstandard class other than CL_EHFND_PCEP_EVT_HANDLER, this worklist item is relevant for you.

<table>
<thead>
<tr>
<th>Object Category</th>
<th>Object Type</th>
<th>Event</th>
<th>Receiver Type</th>
<th>Receiver Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>RELEASED</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_ACMP</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CC</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CCM</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CCI</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CCR</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>RELEASED</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CRM</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CRS</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_CRT</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_LCMPS</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_LEM</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>CREATED</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>CLOSED</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_PCMPS</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_PCMPS</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>RELEASED</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_PCMPS</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
<tr>
<td>Class</td>
<td>CL_EHFND_PCEP_EVT</td>
<td>_WF_PEF</td>
<td>PCEP_V1CL_EHFND_PCEP_EVT</td>
<td>T_HANDLER</td>
</tr>
</tbody>
</table>
32.5 S4TWL - QM Interface

Application Components: EHS-SAF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267387</td>
<td>S4TWL - QM Interface</td>
</tr>
</tbody>
</table>

Symptom

You are carrying out a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

Solution

Description

The previous PSS QM interface is not available within SAP S/4HANA. The corresponding menu item 'QM Inspection Plan Creation' has been removed from transaction CG02 (Substance Workbench) and CG02BD (Specification Workbench). The appropriate business requirements are covered within the successor functionality for SAP Quality Management: Integration of Inspection Plans in EHS.

Business Process related information
Customers who are still using the previous QM interface need to start using the new functionality within SAP QM (See SAP Help: [Link](#)).

With the new QM interface, the inclusion of PS&S data into an inspection plan is now triggered from the QM module (pull mechanism) vs the PS&S module (push mechanism).

**Required and Recommended Action(s)**

Use the new QM Interface to create master inspection characteristics based on specifications.

**How to Determine Relevancy**

None

### 32.6 S4TWL - PS&S Enterprise Search Model

**Application Components:** EHS-SAF

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267421</td>
<td>S4TWL - PS&amp;S Enterprise Search Model</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The existing Enterprise Search Model for the PS&S specification data base (based on data replication) has been replaced in SAP S/4HANA with a replication free search model. The search model and the data replication development objects of the previous search model have been deleted. The Enterprise Search Model for specification data can only be used via the corresponding Recipe Development transactions.

**Business Process related information**
See generic Transition Worklist Item for Enterprise Search for details.

**Required and Recommended Action(s)**

Use the new Enterprise Search Model. In case of customer-specific enhancements of the previous Enterprise Search Model, the enhancements have to carry over into the new replication free Search Model (if they are still required).

### 32.7 S4TWL - Hazardous Substance Management

**Application Components:** EHS-HSM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267422</td>
<td>S4TWL - Hazardous Substance Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

The existing functionality SAP Hazardous Substance Management (EHS-HSM) can be used within SAP S/4HANA, however the use of component SAP Risk Assessment (EHS-MGM-RAS) is recommended instead.

Functionality partially deprecated (see below for details). Alternative exists.

**Business Process related information**

Some adjustments in the SAP Easy Access menu have been made:

- The menu item Hazardous Substance Management has been removed from the Product Safety and Stewardship SAP Easy Access Menu.
- The two menu items Hazardous Substance Master and Filling from Specification Management are now located under: Logistics Product Safety and Stewardship - Product Safety - Tools - Hazardous Substance Master.
SAP Risk Assessment provides a disjunctive functionality without any dependency on Hazardous Substance Management.

**Other Terms**

SAP S/4HANA, System Conversion, Upgrade

### 32.8 S4TWL - Add-On: SAP Product and REACH Compliance (SPRC)

**Application Components:** EHS-SRC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267423</td>
<td>S4TWL - Add-On: SAP Product and REACH Compliance (SPRC)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The add-on SAP Product and REACH Compliance (SPRC) will not be supported within SAP S/4HANA.

SPRC supports process and discrete industry manufacturers in meeting the respective directives and regulations. Both need to prove the safety of substances, products, and their uses according to the REACH (Registration, Evaluation and Authorization of Chemicals) chemical regulation. Discrete industry manufacturers need to provide proof of compliance with environmental directives, such as EU RoHS, China RoHS, JIG, and GADSL.

Product Compliance management of *SAP Environment, Health and Safety Management Extension (EHSM)* provides compliance functionality for the needs of the discrete industry. If you use the discrete industry solution of SPRC or Compliance for Products (CfP), you are able to migrate to *SAP EHSM Product and REACH Compliance*.

For the process industry solution of SPRC, no direct successor exists.
The focus of SPRC version 2.0 was to support process and discrete industry manufacturers to become REACH compliant by using functionalities, such as campaign management for supply chain communication, bulk material assessment and registration and endpoint management. With the deadline for the last REACH registration period in 2018, the focus of customers will switch towards functionality which supports them to remain REACH compliant.

Process industry customers can use *SAP EHS Management Product Safety* as follows:

- Use Safety Data Sheet authoring and distribution to communicate Use and Exposure scenarios of your products to your customers
- Manage Substance registrations with authorities including registration numbers and volume thresholds
- Use Substance Volume Tracking capabilities to track and monitor the volumes of substances in your products.

Discrete industry customers can use *SAP EHS Management Product and REACH Compliance* as follows:

- Maintain and monitor the compliance status of your raw materials for each supplier
- Aggregate and monitor the compliance status for your products based on the supplier information.

The provision of new capabilities, which will cover both process and discrete industries requirements, is planned to be available as part of *SAP S/4HANA for product compliance* and *SAP S/4HANA Cloud for product compliance*. Selected functionality to manage and ensure the marketability of your products is already available as of SAP S/4HANA 1808 / 1809. Please check [https://www.sap.com/products/product-compliance.html](https://www.sap.com/products/product-compliance.html) for additional details.

**Business Process related information**

No influence on business processes expected

The tools of SPRC version 2.0 will only be relevant for process industry manufacturers until the deadline of the last REACH registration period in 2018. The focus of customers will then switch to functionality which supports them to remain REACH compliant.

All transaction codes which were delivered with the SPRC add-on are not available within SAP S/4HANA.

**Required and Recommended Action(s)**
You need to uninstall the add-on before you do a system conversion to SAP S/4HANA. Follow SAP Note 2298456 to perform the uninstallation.

If you use the discrete industry solution of SPRC or CFP, you are able to migrate to Product and REACH Compliance of SAP Environment, Health and Safety Management (EHSM), which provides functionalities for discrete industries. For details refer to http://help.sap.com/ehs-comp or SAP Note 1489703.

Other Terms

SAP REACH Compliance, SRC, SAP Product and REACH Compliance, SPRC, SAP EHS Management, EHSM, PRC

32.9 S4TWL - Add-On: EHS Web-Interface

Application Components: EHS-BD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267426</td>
<td>S4TWL - Add-On: EHS Web-Interface</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The add-on EHS Web-Interface will not be supported with SAP S/4HANA.

Business Process related information

You are no longer able to publish your reports on the internet or intranet.

Required and Recommended Action(s)

You need to uninstall the add-on before you do a system conversion to SAP S/4HANA. Follow SAP Note 2307624 to perform the uninstallation.
32.10S4TWL - Add-On: Genifix (Labelling solution)

Application Components: EHS-SAF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267427</td>
<td>S4TWL - Add-On: Genifix (Labeling solution)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The add-on Genifix (labeling solution) will not be supported within SAP S/4HANA. Successor functionality is available in SAP component [SAP Global Label Management (EHS-SAF-GLM)](https://help.sap.com/).

**Business Process related information**

All transaction codes which were delivered with the Genifix add-on are not available within SAP S/4HANA.

**Required and Recommended Action(s)**

You can migrate to SAP Global Label Management (EHS-SAF-GLM).

You need to uninstall the add-on before you do a system conversion to SAP S/4HANA. It is not yet possible to uninstall the add-on via the SAP Add-On Installation Tool (SAINT).

32.11S4TWL - BW Extractors for Dangerous Goods Management and Specification Management

Application Components: EHS-SAF

Related Notes:
### Note Type | Note Number | Note Description
---|---|---

**Symptom**

You are carrying out a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA transition worklist item is applicable in this case.

**Solution**

**Description**

The relevant BW extractors and data sources for Dangerous Goods Management and Specification Management are not available within SAP S/4HANA.

**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

None

**How to Determine Relevancy**

None
33. Logistics – QM

33.1 S4TWL - Quality Management Information System (QMIS)

Application Components: QM-QC-IS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270193</td>
<td>S4TWL - Quality Management Information System (QMIS)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

The Quality Management Information System (QMIS), which is part of the Logistics Information System (LIS), is not the target architecture (functionality available in SAP S/4HANA but not considered as future technology).

The following transactions are replaced by corresponding Fiori apps in QM Analytics:

MCOV MCOP MCOX MCOB MCOM MCOI MCOG MCOE MCOC MCOA MCVZ MCVP MCVX MCVD MCVB MCVM MCVK MCVI MCVG MCVE MCVC MCV A MCXP MCVX MCXX MCXD MCB MCMX MCXI MCXG MCXE MCXC MCXA

The transactions will be removed in the SAP Fiori launchpad for SAP S/4HANA.

Functional equivalent is covered by QM Analytics.

https://help.sap.com/viewer/2bc3ee8d1c83404e8cf62418640004f2/LATEST/en-US/0d117e44696b4f5d98962070a01a7469.html
An integrated set of quality data allows you to quickly identify systematic errors, analyze problems, eliminate root causes, and respond faster to unforeseen events and deviations. You can perform quality evaluations based on inspection results or based on issue data.

### Fiori App

<table>
<thead>
<tr>
<th>App ID</th>
<th>App ID</th>
</tr>
</thead>
<tbody>
<tr>
<td>F3239</td>
<td>F3273</td>
</tr>
</tbody>
</table>

#### Inspection lot analytics:

- Analyze inspection lots for categories such as accepted and rejected lots, rejection rate, skip rate, total number of lots, skip lots, and mean processing time.

- **Inspection Lot Analytics Last 365 Days**
- **Inspection Lot Detailed Analytics**

#### Characteristic analytics:

- Analyze inspection characteristics for categories such as accepted and rejected inspections, rejection rate, skip rate, mean value, standard deviation, Cp and Cpk index and so on.

- **Characteristic Analytics Last 365 Days**
- **Characteristic Detailed Analytics**
- **Results History**

#### Nonconformance analytics:

- Analyze recorded defects with or without notifications and quality notifications for categories such as mean processing time and overrun.

- **Nonconformance Analytics Last 365 Days**
- **Nonconformance Detailed Analytics**

These Fiori apps are already integrated in the QM Fiori launchpad role templates.

#### Business Process related information

No influence on business processes expected. Customers should just consider this when they think about investments into their QMIS functionality.

#### Other Terms

MCOV MCOP MCOX MCOB MCOD MCOM MCOK MCOI MCOG MCOE MCOA MCVZ MCVP MCVX MCVD MCVB MCVM MCKV MCVI MCVG MCVE MCVC MCV A MCXP MCXV MCXX MCXD MCXB MCXM MCXK MCXI MCXG MCXE MCXC MCXA
33.2 S4TWL - Redundant Transactions in QM


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2338215</td>
<td>S4TWL - Redundant transactions in QM</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Several transactions had been available for performing the same task. To simplify working with the system, redundant transactions have been removed or will not be available for SAP S/4HANA.

Business Process Related Information

The following transactions are either redundant, can be covered by alternate transactions/functions or are replaced by corresponding Fiori apps.

The following transactions will not be provided anymore in SAP S/4HANA:

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Text</th>
<th>Component</th>
<th>Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>QE51</td>
<td>Results recording worklist</td>
<td>QE51N</td>
<td></td>
</tr>
<tr>
<td>QS45</td>
<td>Display catalog</td>
<td>QM-PT-BD</td>
<td>QS42</td>
</tr>
<tr>
<td>QCYF</td>
<td>Report RSTXFCPY, copies SAPscript forms</td>
<td>QM</td>
<td>SE71</td>
</tr>
<tr>
<td>QCYT</td>
<td>Report RSTXTCPY, allows copying of SAPscript text between two clients</td>
<td>QM</td>
<td>access via SO10</td>
</tr>
</tbody>
</table>

The following transactions are replaced by corresponding Fiori apps and are therefore not available in the SAP Fiori launchpad for SAP S/4HANA (but can be called directly):

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Text</th>
<th>Component</th>
<th>Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>QDV3</td>
<td>Display sampling procedure</td>
<td>QM-PT-BD-SPL</td>
<td>Fiori app Sampling Procedure</td>
</tr>
</tbody>
</table>
The following transactions can be covered by alternate transactions and are therefore not available in the SAP Fiori launchpad for SAP S/4HANA (but can be called directly):

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Text</th>
<th>Component</th>
<th>Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>QC11</td>
<td>Create certificate profile assignment</td>
<td>QM-CA-MD</td>
<td>QC15</td>
</tr>
<tr>
<td>QC12</td>
<td>Change certificate profile assignment</td>
<td>QM-CA-MD</td>
<td>QC16</td>
</tr>
<tr>
<td>QC13</td>
<td>Display certificate profile assignment</td>
<td>QM-CA-MD</td>
<td>QC17</td>
</tr>
<tr>
<td>QC14</td>
<td>Create certificate profile assignment with copy model</td>
<td>QM-CA-MD</td>
<td>QC18</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Alternate transactions can directly be used. Fiori apps are already integrated in the QM Fiori launchpad roles.

### 33.3 S4TWL - Removed Navigation to Transactions for Evaluations in QM

Application Components: QM-IM, QM, QM-QN, QM-QC-IS

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2340996</td>
<td>S4TWL - Removed Navigation to Transactions for Evaluations in QM</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

The following transactions won’t work properly by accessing them in SAP GUI for HTML via the SAP Fiori launchpad. It is planned to replace them by corresponding Fiori analytical apps.

Business Process Related Information

The following transactions will not be available in the SAP Fiori launchpad for SAP S/4HANA 1610. Also navigating to the transactions from other transactions will not be possible:

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Text</th>
<th>Component</th>
</tr>
</thead>
<tbody>
<tr>
<td>QGA1</td>
<td>Display quality score time line</td>
<td>QM-QC-IS</td>
</tr>
<tr>
<td>QM50</td>
<td>Time Line Display of Quality Notifications</td>
<td>QM-QN</td>
</tr>
<tr>
<td>QGP1</td>
<td>Results history for task list characteristic</td>
<td>QM-QC-IS</td>
</tr>
<tr>
<td>QST05</td>
<td>Graphical Scheduling Overview</td>
<td>QM-IM</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)

For the time being, open the transaction in SAP GUI for Windows.

33.4 S4TWL - Authorization Objects in QM

Application Components: QM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2505099</td>
<td>Worklist for transition to SAP S/4HANA - authorization objects in quality management</td>
</tr>
</tbody>
</table>

Symptom

You execute a system conversion to SAP S/4HANA, on-premise edition. The SAP S/4HANA transition worklist entry below is relevant in this case.

Reason and Prerequisites
Renewal

Solution

Description

In some authorization objects in quality management, there is no authorization field for the activity (for example, create or change). Instead, the authorization is checked via the authorization object Q_TCODE (transaction code), which must also be maintained. Since transaction codes are no longer relevant for SAP Fiori apps, the old authorization objects are being replaced by new authorization objects with an activity in the medium term in SAP S/4HANA - starting with Release 1709.

It will be possible for the old authorization objects to be deleted in a future release. Until then, they remain valid. This means that the new authorization objects will be checked in addition to the old authorization objects.

The following tables show which new authorization objects replace which old authorization objects.

Changes in SAP S/4HANA 1709:

<table>
<thead>
<tr>
<th>New authorization object</th>
<th>Replaces the following old authorization objects</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q_CGRP_ACT</td>
<td>Q_CAT_GRP and Q_TCODE</td>
<td>Authorization to edit code groups and codes</td>
</tr>
<tr>
<td>Q_CSSET_ACT</td>
<td>Q_CAT_SSET and Q_TCODE</td>
<td>Authorization to edit selection sets</td>
</tr>
<tr>
<td>Q_MINSPCHR</td>
<td>Q_MASTERD, Q_STA_QPMK, and Q_TCODE</td>
<td>Authorization to edit master inspection characteristics</td>
</tr>
<tr>
<td>Q_INSPMETH</td>
<td>Q_MASTERD, Q_STA_QMTB, and Q_TCODE</td>
<td>Authorization to edit check methods</td>
</tr>
<tr>
<td>Q_SMPLPROC</td>
<td>Q_TCODE</td>
<td>Authorization to edit sampling procedures</td>
</tr>
<tr>
<td>Q_DYNMODRL</td>
<td>Q_TCODE</td>
<td>Authorization to edit dynamic modification rules</td>
</tr>
<tr>
<td>Q_QIRECPRC</td>
<td>Q_MATERIAL and Q_TCODE</td>
<td>Authorization to edit quality info records for procurement</td>
</tr>
<tr>
<td>Q_SMPLSCHM</td>
<td>Q_TCODE</td>
<td>Authorization to edit sampling schemes</td>
</tr>
<tr>
<td>Q_INSPLOT</td>
<td>Q_INSPTYPE, Q_MATERIAL, and Q_TCODE</td>
<td>Authorization to edit inspection lots</td>
</tr>
<tr>
<td>Q_INSPRSLT</td>
<td>Q_INSPTYPE, Q_MATERIAL, and Q_TCODE</td>
<td>Authorization to enter inspection results</td>
</tr>
<tr>
<td>Q_QLEVEL</td>
<td>Q_MATERIAL and Q_TCODE</td>
<td>Authorization to edit quality levels</td>
</tr>
</tbody>
</table>
Q_INSPPNT  |  Q_TCODE  |  Authorization to edit inspection points

Changes in SAP S/4HANA 1809:

<table>
<thead>
<tr>
<th>New authorization object</th>
<th>Replaces the following old authorization objects</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q_CTRLCHRT</td>
<td>Q_SPC and Q_TCODE</td>
<td>Authorization to edit control charts</td>
</tr>
<tr>
<td>Q_MATSMPL</td>
<td>Q_MATERIAL with the following values for QMATMODUS:</td>
<td>Authorization to edit samples</td>
</tr>
<tr>
<td></td>
<td>• J (edit sample record)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• K (release physical sample and sample)</td>
<td></td>
</tr>
<tr>
<td>Q_SMPLSLOC</td>
<td>Q_TCODE</td>
<td>Authorization to edit sample storage locations</td>
</tr>
<tr>
<td>Q_INSQPQUAL</td>
<td></td>
<td>Additional authorization for customizing of inspector qualification</td>
</tr>
<tr>
<td>Q_SDRWGP</td>
<td>Q_MASTERD with QMASTMOD = 102</td>
<td>Authorization to edit sample drawing procedures</td>
</tr>
<tr>
<td>Q_CERT_IN</td>
<td>Q_TCODE</td>
<td>Authorization to edit quality certificate receipts in procurement</td>
</tr>
<tr>
<td>Q_QIRECSLS</td>
<td>Q_MATERIAL with QMATMODUS = E and Q_TCODE</td>
<td>Authorization to edit quality info records in Sales and Distribution</td>
</tr>
</tbody>
</table>

**Business-process-related information**

No consequences are expected for business processes. Consequences are expected only for system administration.

**Required and recommended action(s)**

Your users need authorizations for the new authorization checks to be able to continue using the functions they have used so far. At "Profile Generator: Upgrade and First Installation" (transaction SU25), you use steps 2a/b and 2c to update the default values and roles so that they receive the new authorizations. This update takes some time. To enable your users to work productively in the upgraded system before you update the default values and roles, run the report REGENERATE_SAP_NEW. This report creates the role SAP_NEW with the new authorizations. Assign SAP_NEW to the users affected by the upgrade.

**Caution**
Remember to delete the role assignments to SAP_NEW after you have updated the authorization default values and roles.

### 33.5 S4TWL - Results Recording

Application Components: QM-IM-RR

#### Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270124</td>
<td>S4TWL - Results Recording for handheld devices</td>
</tr>
</tbody>
</table>

#### Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

#### Reason and Prerequisites

Renovation

#### Solution

**Description**

The functionality to create worklists for mobile devices such as PalmPilot (transaction QEH1) is not available within SAP S/4HANA, on-premise edition 1511.

**Business Process related information**

As an alternative, you could use the POWL and the WebDynpro application for results recording that is included in the PFCG role for NWBC Quality Inspector (SAP_SR_QUALITY_INSPECT_5).

| Transaction not available in SAP S/4HANA on-premise edition 1511 | QEH1 |

#### Required and Recommended Action(s)

Knowledge transfer to key and end users

#### Other Terms
Worklist

33.6 S4TWL - ITS services in QM

Application Components: QM-QC, QM-IM-RR, QM-QN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270126</td>
<td>S4TWL - ITS services in QM</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

SAP Internet Transaction Server (ITS) is considered to be an old technique. Therefore the ITS services for the Internet Application Components (IAC) in QM are not available within SAP S/4HANA, on-premise edition 1511.

Business Process related information

As alternatives, you could use the corresponding QM transactions in SAP GUI for HTML or you could use the WebDynpro applications mentioned below, which are part of the PFCG role for NWBC Quality Inspector (SAP_SR_QUALITY_INSPECT_5).

a) Results Recoding: WebDynpro application QI_RECORD_RESULTS_ETI_APPL

b) Quality Notifications: WebDynpro application QIMT_NOTIFICATION_APP

c) Certificates: No WebDynpro application available. However, existing QM transactions are still available, such as QC20, QC21
<table>
<thead>
<tr>
<th><strong>Transaction Code</strong></th>
<th><strong>Corresponding ITS Description</strong></th>
<th><strong>Package</strong></th>
<th><strong>Application</strong></th>
<th><strong>Area</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>QC40</td>
<td>QC40</td>
<td>Internet</td>
<td>QC</td>
<td>QC-MD</td>
</tr>
<tr>
<td>QC40A</td>
<td>QC40A</td>
<td>Internet</td>
<td>QC</td>
<td>QC-MD</td>
</tr>
<tr>
<td>QC42</td>
<td>QC42</td>
<td>Batch</td>
<td>QC</td>
<td>QC-MD</td>
</tr>
<tr>
<td>QEW01</td>
<td>QEW01</td>
<td>WWW</td>
<td>QEWW</td>
<td>QM-IM</td>
</tr>
<tr>
<td>QEW01V</td>
<td>QEW01V</td>
<td>WWW</td>
<td>QEWW</td>
<td>QM-IM</td>
</tr>
<tr>
<td>QMW1</td>
<td>QMW1</td>
<td>Create</td>
<td>QMQ</td>
<td>QM-QN</td>
</tr>
<tr>
<td>QISR</td>
<td>QISR</td>
<td>Internal</td>
<td>QNWEB</td>
<td>QM</td>
</tr>
<tr>
<td>QISRW</td>
<td>QISRW</td>
<td>Request</td>
<td>QNWEB</td>
<td>QM</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Knowledge transfer to key and end users

Check if the services are used via transaction SICF. Hierarchy Type = "Service", Service Name e.g. "QC40" and execute. Click on node e.g. "QC40" and check via context menu (mouse-click right) if service is active. Do the same for all services in the table.

**Other Terms**

IAC
33.7 S4TWL - QM WEB Workplace (MiniApps) based on ITS Services

Application Components:QM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270129</td>
<td>S4TWL - QM WEB Workplace (MiniApps) based on ITS Services</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Renovation

Solution

Description

SAP Internet Transaction Server (ITS) and mySAP Workplace are not available within SAP S/4HANA. Therefore the MiniApps that are based on these techniques are not available within SAP S/4HANA.

Business Process related information

As alternatives, you could use the corresponding QM transactions in SAP GUI for HTML or the corresponding Web Dynpro applications, which are part of the PFCG role for NWBC Quality Inspector (SAP_SR_QUALITY_INSPECT_5).

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>IQS8WP</td>
<td>IQS8 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>IQS9WP</td>
<td>IQS9 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>QA32WP</td>
<td>QA32 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>QE09WP</td>
<td>Call QE09 from Workplace</td>
</tr>
<tr>
<td>QPQA32</td>
<td>QM MiniApp Selection Variant</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>QPQGC1</td>
<td>QM MiniApp Selection Variant</td>
</tr>
<tr>
<td>QPQM10</td>
<td>QM MiniApp Selection Variant</td>
</tr>
<tr>
<td>QPQM13</td>
<td>QM MiniApp Selection Variant</td>
</tr>
<tr>
<td>QM10WP</td>
<td>QM10 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>QM13WP</td>
<td>QM13 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>QPIQS8 QM</td>
<td>MiniApp Selection Variant</td>
</tr>
<tr>
<td>QPIQS9 QM</td>
<td>MiniApp Selection Variant</td>
</tr>
<tr>
<td>WAO_QA32WP</td>
<td>QA32 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>WAO_QM10WP</td>
<td>QM10 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>WAO_QM13WP</td>
<td>QM13 - Call from Workplace/MiniApp</td>
</tr>
<tr>
<td>WAO_QPQA32</td>
<td>QM iView Selection Variant Insp.Lot</td>
</tr>
<tr>
<td>WAO_QPQM10</td>
<td>QM iView Selection Variant Notificat</td>
</tr>
<tr>
<td>WAO_QPQM13</td>
<td>QM iView Selection Variant Task</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Knowledge transfer to key and end users

**Other Terms**

IAC
34. Logistics – TRA

34.1 S4TWL - Transportation (LE-TRA)

Application Components: LE-TRA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270199</td>
<td>S4TWL - Transportation (LE-TRA)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Logistics Execution Transportation (LE-TRA) is not the target architecture within SAP S/4HANA. The functionality is available in SAP S/4HANA but not considered as future technology. The alternative functionality is selected features of Transportation Management which is already available within SAP S/4HANA.

Please note however the following exception (details please see in the attachment below):

- The Route object of application component LE-TRA and the corresponding objects, which are needed for the definition and determination of this route, have been moved from the Compatibility Scope into the Perpetual Scope of SAP S/4HANA. In other words: The customers can use those objects after 2030 in SAP S/4HANA.

That allows the customer to use these objects for existing functionality in other applications e.g. scheduling in sales order / stock transport order / delivery, etc.

**Important**: All other objects from LE-TRA which are used for the Transportation functionality will remain in the Compatibility Scope. And cannot be used after 2030. This would primarily be the shipment document + shipment cost document and all corresponding objects / customizing / master data / interfaces.
The Route in SAP S/4HANA is no strategic object:
SAP does not plan further innovations for those objects. As well no integration into new innovations e.g. Product Compliance is planned. In particular no integration into SAP S/4HANA Supply Chain for Transportation Management is available or planned. No standard migration tool from LE-TRA to SAP S/4HANA TM is planned either.

- LE-TRA and the industry solution IS-OIL are functionally different solutions, however they share some objects on a technical level. These shared objects can continued to be used, even after the expiry of the compatibility pack license, but only in OIL&GAS context. These are the areas of Transportation Planning Point and Shipment type, which are clustered around the tables VTK / TTDS.

Business Process related information

No influence is expected on the current business processes related to Logistics Execution Transportation (LE-TRA). The related functionality is still available within SAP S/4HANA.

Required and Recommended Action(s)

Logistics Execution Transportation (LE-TRA) is not the target architecture anymore within SAP S/4HANA.

The alternative functionality is the basic variant of Transportation Management within SAP S/4HANA, which is already available.

The main functions of LE-TRA have already been replaced with those selected functions of SAP S/4HANA Supply Chain for Transportation Management.

Currently, that means until the expiration of the usage rights of the Compatibility Packs, both technical applications (LE-TRA and Transportation Management) are independent from each other and can be used next to each other in the same SAP S/4HANA database instance.

However they are not integrated with each other and there is no data exchange.

How to determine Relevancy

The Simplification Item is relevant in the following cases:

- the related customizing for LE-TRA is maintained
  -- SPRO: Logistics Execution - Transportation (exception would be the LE-TRA Route determination)

- the readiness check lists table entries e.g.
  -> Tables VTTK, VTPA, VTTS, VFKK are checked
Detailed description in SAP S/4HANA:
LE-TRA functionality and the equivalent with basic Transportation Management


In addition please find the detailed description of the parcel process in SAP S/4HANA
und in the attachments:
LE-TRA-XSI functionality and the equivalent process within basic Transportation Management

For convenience here is the link to the corresponding simplification item of LE-TRA:

https://launchpad.support.sap.com/#sic/itemSet('0050569455E21ED5B3E17678391F809E','false')
35. Logistics – WM

35.1 S4TWL - Task & Resource Management

Application Components: LE-TRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2889253</td>
<td>S4TWL - Task &amp; Resource Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Task and Resource Management (LE-TRM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Extended Warehouse Management (SAP EWM).

Business Process related information

No immediate influence on business processes expected related to Task and Resource Management. The functionality Task and Resource Management (LE-TRM) is still available within the SAP S/4HANA architecture stack as part of the compatibility packages. All related functionalities can be used in an unchanged manner for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information).

Required and Recommended Action(s)

As part of your SAP S/4HANA system conversion or upgrade project you need to decide, if you want to continue using Task and Resource Management (LE-TRM) for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information), or if you want to migrate to Extended Warehouse Management (SAP EWM).
If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project. Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

Once you migrate to Extended Warehouse Management (SAP EWM), but latest with expiry of the compatibility scope license (see SAP note 2269324 for more information), you need to remove all usages of Task & Resource Management development objects delivered by SAP from your custom code, as these are no longer supported after expiry of the compatibility scope license. Such usages are shown by the SAP S/4HANA specific custom code checks in ABAP Test Cockpit (see SAP note 2241080).

Other Terms

LE-WM, Stock Room Management

35.2 S4TWL - Warehouse Control Interface

Application Components: LE-WM-IFC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2889468</td>
<td>S4TWL - Warehouse Control Interface</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The integration of external systems via IDOCs in Warehouse Management (LE-WM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Extended Warehouse Management (SAP EWM).

Business Process related information
No immediate influence on business processes expected related to the Integration of external systems via IDOCs. The functionality Integration of external systems via IDOCs in Warehouse Management (LE-WM) is still available within the SAP S/4HANA architecture stack as part of the compatibility packages. All related functionalities can be used in an unchanged manner for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information).

**Required and Recommended Action(s)**

As part of your SAP S/4HANA system conversion or upgrade project you need to decide, if you want to continue using the integration of external systems via IDOCs in Warehouse Management (LE-WM) for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information), or if you want to migrate to Extended Warehouse Management (SAP EWM).

If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project. Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

**Other Terms**

LE-WM, Stock Room Management

**35.3 S4TWL - Decentral WM**

Application Components: LE-WM-IFC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2889540</td>
<td>S4TWL - Decentral WM</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
This note is only relevant if you use have dedicated ERP instances for Warehouse Management and others for Enterprise Resource Management. In this setup warehouse logistics with LE-WM is running on an own decentral ERP instance connected to a central ERP instance. The usage of Warehouse Management (LE-WM) as decentralized Warehouse Management is not the target architecture anymore within SAP S/4HANA, on-premise edition. The (already available) alternative functionality is Extended Warehouse Management (SAP EWM). Connecting a decentral Warehouse Management is still target architecture within SAP S/4HANA, on-premise edition.

**Business Process related information**

You mustn’t migrate the decentralized Warehouse Management to SAP S/4HANA. Instead stay on ECC with the decentralized Warehouse Management (taking current end of maintenance into consideration) and do the system conversion to SAP S/4HANA only for your central instance where you control your business.

**Required and Recommended Action(s)**

As part of your SAP S/4HANA system conversion or upgrade project you have two options, if you currently use Warehouse Management (LE-WM) as a decentralized system.

You can proceed using LE-WM as decentralized Warehouse Management System. In this case this decentralized system needs to stay on ERP and mustn’t be converted to S/4HANA. The other option is to migrate to Extended Warehouse Management (SAP EWM).

If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project. Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

Once you migrate to Extended Warehouse Management (SAP EWM), but latest with expiry of the compatibility scope license (see SAP note 2269324 for more information), you need to remove all usages of Decentral WM development objects delivered by SAP from your custom code, as these are no longer supported after expiry of the compatibility scope license. Such usages are shown by the SAP S/4HANA specific custom code checks in ABAP Test Cockpit (see SAP note 2241080).

**Other Terms**

LE-WM, Stock Room Management
35.4 S4TWL - Wave Management

Application Components: LE-WM-TFM-CP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2889652</td>
<td>S4TWL - Wave Management / Collective Processing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The functionality of Wave Management / collective Processing in Warehouse Management (LE-WM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Wave Management in Extended Warehouse Management (SAP EWM).

Business Process related information

No immediate influence on business processes expected related to Wave Management / collective Processing. The functionality Wave Management / collective Processing of Warehouse Management (LE-WM) is still available within the SAP S/4HANA architecture stack as part of the compatibility packages. All related functionalities can be used in an unchanged manner for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information).

Required and Recommended Action(s)

As part of your SAP S/4HANA system conversion or upgrade project you need to decide, if you want to continue using Wave Management / collective Processing in Warehouse Management (LE-WM) for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information), or if you want to migrate to Extended Warehouse Management (SAP EWM).
If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project. Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

Once you migrate to Extended Warehouse Management (SAP EWM), but latest with expiry of the compatibility scope license (see SAP note 2269324 for more information), you need to remove all usages of Wave Management development objects delivered by SAP from your custom code, as these are no longer supported after expiry of the compatibility scope license. Such usages are shown by the SAP S/4HANA specific custom code checks in ABAP Test Cockpit (see SAP note 2241080).

**Other Terms**

LE-WM, Stock Room Management

**35.5 S4TWL - Cross Docking**

Application Components: LE-WM-CD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2889636</td>
<td>S4TWL - Cross Docking</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

The functionality of Cross Docking in Warehouse Management (LE-WM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Cross Docking in Extended Warehouse Management (SAP EWM).

**Business Process related information**

No immediate influence on business processes expected related to Cross Docking. The functionality of Cross Docking in Warehouse Management (LE-WM) is still available within the SAP S/4HANA architecture stack as part of the compatibility packages. All
related functionalities can be used in an unchanged manner for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information).

**Required and Recommended Action(s)**

As part of your SAP S/4HANA system conversion or upgrade project you need to decide, if you want to continue using Cross Docking in Warehouse Management (LE-WM) for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information), or if you want to migrate to Extended Warehouse Management (SAP EWM).

If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project.

Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

Once you migrate to Extended Warehouse Management (SAP EWM), but latest with expiry of the compatibility scope license (see SAP note 2269324 for more information), you need to remove all usages of Cross Docking development objects delivered by SAP from your custom code, as these are no longer supported after expiry of the compatibility scope license. Such usages are shown by the SAP S/4HANA specific custom code checks in ABAP Test Cockpit (see SAP note 2241080).

**Other Terms**

LE-WM, Stock Room Management, LE-WM-DCK

**35.6 S4TWL - Yard Management**

Application Components: LE-YM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2889637</td>
<td>S4TWL - Yard Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**
The functionality of Yard Management in Warehouse Management (LE-WM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Yard Management in Extended Warehouse Management (SAP EWM).

**Business Process related information**

No immediate influence on business processes expected related to Yard Management. The functionality Yard Management in Warehouse Management (LE-WM) is still available within the SAP S/4HANA architecture stack as part of the compatibility packages. All related functionalities can be used in an unchanged manner for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information).

**Required and Recommended Action(s)**

As part of your SAP S/4HANA system conversion or upgrade project you need to decide, if you want to continue using Yard Management in Warehouse Management (LE-WM) for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information), or if you want to migrate to Extended Warehouse Management (SAP EWM).

If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project. Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

Once you migrate to Extended Warehouse Management (SAP EWM), but latest with expiry of the compatibility scope license (see SAP note 2269324 for more information), you need to remove all usages of Yard Management development objects delivered by SAP from your custom code, as these are no longer supported after expiry of the compatibility scope license. Such usages are shown by the SAP S/4HANA specific custom code checks in ABAP Test Cockpit (see SAP note 2241080).

**Other Terms**

LE-WM, Stock Room Management

**35.7 S4TWL - Value Added Services**

Application Components:LE-WM-VAS

Related Notes:
Note Type | Note Number | Note Description
----------|-------------|-------------------
Business Impact | 2889638 | S4TWL - Value Added Services

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

The functionality of Value added Services in Warehouse Management (LE-WM) is not the target architecture anymore within SAP S/4HANA, on-premise edition (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). The (already available) alternative functionality is Value added Services in Extended Warehouse Management (SAP EWM).

Business Process related information

No immediate influence on business processes expected related to Value added Services. The functionality Value added Services in Warehouse Management (LE-WM) is still available within the SAP S/4HANA architecture stack as part of the compatibility packages. All related functionalities can be used in an unchanged manner for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information).

Required and Recommended Action(s)

As part of your SAP S/4HANA system conversion or upgrade project you need to decide, if you want to continue using Value added Services in Warehouse Management (LE-WM) for a limited period of time under the conditions of the compatibility packages (see SAP note 2269324 for more information), or if you want to migrate to Extended Warehouse Management (SAP EWM).

If your decision is to migrate to Extended Warehouse Management (SAP EWM), plan accordingly for this in your project.
Please check as well the Release information and restrictions for EWM in SAP S/4HANA of the S/4HANA Release you will implement.

Once you migrate to Extended Warehouse Management (SAP EWM), but latest with expiry of the compatibility scope license (see SAP note 2269324 for more information), you need to remove all usages of Value Added Services development objects delivered by SAP from your custom code, as these are no longer supported after expiry of the
compatibility scope license. Such usages are shown by the SAP S/4HANA specific custom code checks in ABAP Test Cockpit (see SAP note 2241080).

**Other Terms**

LE-WM, Stock Room Management
36. Portfolio and Project Management (PPM)

36.1 S4TWL - Web Dynpro Applications for Resource Maintenance in SAP Portfolio and Pr

Application Components: PPM-PRO, PPM-PFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2358376</td>
<td>S4TWL - Web Dynpro Applications for Resource Maintenance in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The Web Dynpro application 'Create Resource' is no longer available. Furthermore, it is no longer possible to edit standard fields of a business partner with the Web Dynpro application 'Edit Resource'. Use the standard functions for creating and editing business partner data.

**Business Process-Related Information**

No effects on business processes are expected.

**Required and Recommended Action(s)**

Please see note 2379542 for further information on Business Partner in SAP Portfolio and Project Management for SAP S/4HANA. No further actions expected.

**How to determine relevancy**

This transition worklist item is relevant for you, if you are using the WebDynpro applications 'Create resource' or 'Edit resource'.
36.2 S4TWL - Workforce Deployment (WFD) integration in SAP Portfolio and Project Mana

Application Components: PPM-PRO, PPM-PFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2358519</td>
<td>S4TWL - Workforce Deployment (WFD) integration in SAP Portfolio and Project Mana</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Workforce Deployment is not longer available for Resource Management in Project Management of SAP Portfolio and Project Management for SAP S/4HANA.

**Business Process-Related Information**

No effects on business processes are expected.

**Required and Recommended Action(s)**

No further actions expected.

**How to Determine Relevancy**

Transition Worklist item is relevant, if you use Workforce Deployment.

**Related SAP Notes**
Other Terms

WFM Core

36.3 S4TWL - Integration to SAP cFolders in SAP Portfolio and Project Management for

Application Components: PPM-PFM, PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2358921</td>
<td>S4TWL - Integration to SAP cFolders in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP Portfolio and Project Management for SAP S/4HANA, the SAP cFolders Integration functionality is no longer supported.

Business Process-Related Information

It is no longer possible to exchange data between SAP Portfolio and Project Management for SAP S/4HANA and SAP cFolders.

Required and Recommended Action(s)

SAP recommends to evaluate integration between Portfolio and Project Management and SAP Enterprise Product Development collaboration as a substitute for selected collaboration scenarios.

How to Determine Relevancy
This Transition Worklist item is relevant if cFolders and SAP Portfolio and Project Management is used.

### 36.4 S4TWL - KM Documents in SAP Portfolio and Project Management for SAP S/4HANA

Application Components: PPM-PFM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2354985</td>
<td>S4TWL - KM Documents in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

In SAP Portfolio and Project Management for SAP S/4HANA, the usage of Knowledge Management (KM) for Document Management is no longer available.

SAP Note 2445069 provides a pre-conversion check for this feature.

**Business Process-Related Information**

No effects on business processes are expected.

**Required and Recommended Action(s)**

In order to prevent the loss of the linkage between documents stored in KM and SAP Portfolio and Project Management for SAP S/4HANA during the system conversion, it is required to switch from the KM based document management to a KPRO based solution. For this, migrate your KM documents to KPRO documents using the report /RPM/MIGRATE_KM_DOCS. You can find more information in the Upgrade Master Guide of the current start release. If the start release is SAP RPM 4.5 and the documents should also be moved, first an upgrade to one of the releases SAP Portfolio and Project
Management 5.0/6.0/6.1 is required. You can find more information in the Conversion Guide.

**How to Determine Relevancy**

This Simplification Item is relevant if in the customizing of global settings the value of the setting Area:0007, Name:0022 is empty (not 'X')

**Other Terms**

KM, KPRO

### 36.5 S4TWL - SRM Integration in SAP Portfolio and Project Management for SAP S/4HANA

Application Components: PPM-PRO

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2359354</td>
<td>S4TWL - SRM Integration in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The SRM Integration for external service procurement is not available in SAP Portfolio and Project Management for SAP S/4HANA.

SAP Note 2445069 provides a pre-conversion check for this feature.

**Business Process related information**
It is not possible anymore to order external materials and resources directly from Project Management through SRM.

**Required and Recommended Action(s)**

The SRM Integration related data cannot be migrated to SAP Portfolio and Project Management for SAP S/4HANA, therefore it is required to clean up the data before the system conversion in order to prevent any data loss. Archive the corresponding projects or delete not needed SRM Integration related data before you continue the system conversion.

**Other Terms**

SRM, Supplier Relationship Management

### 36.6 S4TWL - cFolders not available anymore in SAP Portfolio and Project Management

**Application Components:** PLM-CFO

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2348430</td>
<td>S4TWL - cFolders not available anymore in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Renovation and Simplification of Functionality

**Solution**

**Description**
With SAP Portfolio and Project Management for SAP S/4HANA, the cFolders component is not available anymore. SAP recommends to evaluate integration between Portfolio and Project Management and SAP Enterprise Product Development as a substitute for selected collaboration scenarios.

SAP Note 2445069 provides a pre-conversion check for this feature.

**Business Process related information**

All the features of cFolders application and all the integration between cFolders and other applications, e.g. SAP PLM, SAP SRM etc., are not available anymore.

**Required and Recommended Action(s)**

Because cFolders is not available anymore with SAP Portfolio and Project Management for SAP S/4HANA, customers need to archive existing cFolders data before the system conversion by following the steps below:

1. This step is mandatory to continue the conversion. Go to the collaboration overview page, select the collaborations you would like to archive, and click 'Archive' button in the toolbar above the list. Then the system will set a deletion indicator and remove the collaboration from the collaboration overview.
2. This step is not mandatory for the conversion, but it's highly recommended to keep the integrity of your data. Use SAP Data Archiving and archive object 'CFX_ARCH' to archive the collaboration data.

For the collaboration with partners, customers could consider to use other products like SAP Enterprise Product Development (EPD). Integration between SAP EPD collaboration and project elements is available via object links as of SAP S/4HANA 2021, with SAP S/4HANA 2021 FPS1 integration to portfolio items and initiatives is planned. Further information is available via help.sap.com.

**How to Determine Relevancy**

This Simplification Item is relevant if:

- cFolders is used if entries exist in Table CFX_COL, and column TO_BE_ARCHIVED is not set to 'X' (check with SE16)
36.7  S4TWL - Global Settings in SAP Portfolio and Project Management for SAP S/4HANA

Application Components: PPM-PFM, PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2359662</td>
<td>S4TWL - Global Settings in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The following Customizing settings under SAP Portfolio and Project Management -> Project Management -> Basic Settings -> Check Global Settings have been changed in SAP Portfolio and Project Management for SAP S/4HANA.

<table>
<thead>
<tr>
<th>Area</th>
<th>Text</th>
<th>Name</th>
<th>Text</th>
<th>Delivered Default Settings Value</th>
<th>Availability in S/4HANA PPM</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Master Switches</td>
<td>5</td>
<td>Integration with Other Components (see SAP Note 1391444)</td>
<td></td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the features require further configuration.</td>
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<tr>
<td>2</td>
<td>Master Switches</td>
<td>7</td>
<td>Integration with PS and FI/CO (see SAP Note 1427365)</td>
<td></td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
</tr>
<tr>
<td>Switches</td>
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<td>Feature Description</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td>---</td>
<td>---------------------</td>
<td>---</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master</td>
<td>8</td>
<td>Enhanced Capital and Resource Mgmt Switch (see SAP Note 1457426)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master</td>
<td>13</td>
<td>Flag is Obsolete (SAP Note 1759150)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master</td>
<td>14</td>
<td>Flag is Obsolete - Change Documents for Financial and Capacity Planning</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Master</td>
<td>15</td>
<td>Milestone Filter for Tasks (&quot;X&quot;=On, '&quot;'=Off)</td>
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<td></td>
<td></td>
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<tr>
<td>Master</td>
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<td>Accumulate the Number of Objects in the Dashboard (&quot;X&quot;=On, '&quot;'=Off)</td>
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<td></td>
<td></td>
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<tr>
<td>Master</td>
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<td>Flag is obsolete (SAP Note 1780409)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Master</td>
<td>18</td>
<td>Flag is Obsolete - Automatic Refresh of Project Dashboards (&quot;X&quot;=On, '&quot;'=Off)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Master</td>
<td>21</td>
<td>Integration with PLM Engineering Record (‘X’ = ON, “” = OFF)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Master</td>
<td>22</td>
<td>Activate Operative Object Links (‘X’ = ON, “” = OFF)</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>6</td>
<td>21</td>
<td>DEPRECATED: Display Additional Information on Gantt Chart (&quot; &quot;: No, 'X': Yes)</td>
<td>the feature requires further configuration.</td>
</tr>
<tr>
<td>---</td>
<td>------------------------</td>
<td>---</td>
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<td>------------------------------------------------------------------------------------------------</td>
<td>----------------------------------------------</td>
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<td>User Interface Settings</td>
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<td>23</td>
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<td></td>
<td>User Interface Settings</td>
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<td>24</td>
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<td>User Interface Settings</td>
<td>6</td>
<td>26</td>
<td>Display Additional Information on Multi-Project Monitor (&quot; &quot;: No, 'X': Yes)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>6</td>
<td>28</td>
<td>Adjustment of Structure Tree Area by Splitter (&quot;X&quot;=Enabled, &quot; &quot;:Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>6</td>
<td>29</td>
<td>Delete Button in Project Dashboard (&quot;X&quot;=Yes, &quot; &quot;:No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>6</td>
<td>30</td>
<td>Data Aggregation in Projects (&quot;X&quot;=Enabled, &quot; &quot;:Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>6</td>
<td>31</td>
<td>Fullscreen Mode for Graphical View (&quot;X&quot;=Enabled, &quot; &quot;:Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>32</td>
<td>Move-Up/Move-Down Buttons in Project ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>---</td>
<td>------------------------</td>
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<td>-------------------------------------------------</td>
<td>---------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>33</td>
<td>Summary of Project Data in Multi-Project Monitor ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>34</td>
<td>Concurrent Status Changes for Multiple Tasks ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>35</td>
<td>Display Mirrored Task Relationships in MP Monitor ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>36</td>
<td>Assignment of Multiple Roles to Tasks at a Time ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>User Interface Settings</td>
<td>37</td>
<td>Allow Constraint Icons without Add. Info. in Graphical View ('X'=On, ' '=Off)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>Page</td>
<td>Group</td>
<td>Feature Description</td>
<td>Action</td>
<td></td>
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</tr>
<tr>
<td>6</td>
<td>User Interface Settings</td>
<td>Enhance Display of Details Window in Graphical View ('X'=On, '.'=Off)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>User Interface Settings</td>
<td>Additional Display Options for Assignments to Project Elements (.'=No, 'X'=Yes)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>User Interface Settings</td>
<td>One-Click Completion of Subordinate Project Elements ('.'=No, 'X'=Yes)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>User Interface Settings</td>
<td>Improved Alignment of Project Evaluation Display ('.'=No, 'X'=Yes)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>SAP Notes Language Independent</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>Document Alignment ('.': KM, 'X': KPRO)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>Default number of columns initially displayed in</td>
<td>Switch is obsolete and will be deleted.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>General Default Values</td>
<td>27</td>
<td>Check-in/Check-out of Documents (‘·’: Normal, ‘X’: HTTP-Based)</td>
<td>Switch will be Removed. Feature will no longer be available.</td>
<td></td>
</tr>
<tr>
<td>----</td>
<td>------------------------</td>
<td>----</td>
<td>---------------------------------------------------------------</td>
<td>--------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>28</td>
<td>HTTP Destination for SAP BusinessObjects Explorer</td>
<td>Switch will be Removed. Feature will no longer be available.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>31</td>
<td>Flag is obsolete (SAP Note 1677356)</td>
<td>Switch is obsolete and will be deleted.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>36</td>
<td>Flag is obsolete: Activate calculation of derived capacity attribute</td>
<td>Switch is obsolete and will be deleted.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>38</td>
<td>Flag is obsolete (SAP Note 1755486)</td>
<td>Switch is obsolete and will be deleted.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>39</td>
<td>Activate Multiple Object Selection for Reporting Cockpit (‘X’=Yes, ‘ ’=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>40</td>
<td>Flag is obsolete</td>
<td>Switch is obsolete and will be deleted.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>General Default Values</td>
<td>46</td>
<td>Override Authorizations for Documents in Item Versions (‘X’=Yes, ‘ ’=No)</td>
<td>Switch will be removed. Feature will be activated available by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Portfolio Item Project Integration</td>
<td>9</td>
<td>Use Project Calendar for Linked Item (‘X’=Yes, ‘ ’=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>1</td>
<td>Updating Staffing According To Tasks ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>-----</td>
<td>-----------------------------------</td>
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<td>-----------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>2</td>
<td>Confirmed Role Efforts in Staffing Overview of Projects ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>3</td>
<td>Export of Cross-Project Resource/Staffing Data ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>4</td>
<td>Consider User Group Authorization in Resource Management (Yes = 'X', No = ' ')</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>5</td>
<td>Personalized Layout for Resource Management Screens ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>6</td>
<td>SAP Notes in Cross-Project Staffing Overview ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Staffing and Resource Management</td>
<td>7</td>
<td>Updating Multiple Roles According to Tasks ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>Staffing and Resource Management</td>
<td>8</td>
<td>Project Number as Search Criterion in Role Search ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
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<tr>
<td>Staffing and Resource Management</td>
<td>12</td>
<td>Retain Node Expansion After Saving in Overview Screens ('X'=Yes, ' '=No)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheduling and Project Structuring</td>
<td>1</td>
<td>Automatic Scheduling of All Project Elements ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheduling and Project Structuring</td>
<td>3</td>
<td>Creation/Deletion of Multiple Relationships ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheduling and Project Structuring</td>
<td>4</td>
<td>Optimization of Task and Milestone Relationships ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Scheduling and Project Structuring</td>
<td>5</td>
<td>Changing Scheduling Type in Project ('X'=Enabled, ' '=Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Scheduling and Project Structuring</td>
<td>6</td>
<td>Preserve Relationships When Canceling Tasks ('X'=Enabled, ' ' =Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>---</td>
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<td>---</td>
<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Additional Features</td>
<td>1</td>
<td>Sending E-Mails from Project Elements ('X' = Enabled, ' ' = Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Additional Features</td>
<td>2</td>
<td>Export/Import of Templates ('X'=Enabled, ' ' =Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Additional Features</td>
<td>4</td>
<td>Comparison with Actual Dates in Graphical View ('X'=Enabled, ' ' =Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Additional Features</td>
<td>5</td>
<td>Export of Multi-Project Monitor Data ('X'=Enabled, ' ' =Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Additional Features</td>
<td>6</td>
<td>Export of Resource Planning Data ('X'=Enabled, ' ' =Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Additional Features</td>
<td>7</td>
<td>Export of Graphical View ('X' =Enabled, ' ' =Disabled)</td>
<td>Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration.</td>
<td></td>
</tr>
</tbody>
</table>

| 13 | Additional Features | 8 | Export of Evaluation Data ('X'=Enabled, ' '=Disabled) | X | Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration. |
| 13 | Additional Features | 9 | Project-Specific Display of Earliest or Latest Dates ('X'=Enabled, ' '=Disabled) | X | Switch will be removed. Feature will be activated by default. In most cases, using the feature requires further configuration. |

SAP Note 2321885 provides a pre-conversion check for some of these features.

**Business Process-Related Information**

No effects on business processes are expected.

**Required and Recommended Action(s)**

Review the settings in your system before the conversion. If you have overwritten the default values, SAP recommends to delete the entries that have been deleted by SAP.

**How to Determine Relevancy**

This Transition Worklist item is relevant if you are using SAP Portfolio and Project Management for SAP S/4HANA.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Conversion pre-checks</th>
<th>SAP Note 2321885</th>
</tr>
</thead>
<tbody>
<tr>
<td>Http-based Check-In/Check-out</td>
<td>SAP Note 2353984</td>
</tr>
</tbody>
</table>
36.8 S4TWL - Fiori apps of UI FOR SAP PORTF PROJ MGMT 6.0 in SAP Portfolio and Projec

Application Components: PPM-PFM, PPM-PRO, PPM-FIO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2360044</td>
<td>S4TWL - Fiori apps of UI FOR SAP PORTF PROJ MGMT 6.0 in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The SAP Fiori apps of the UI FOR SAP PORTF PROJ MGMT 6.0 product version are no longer supported.

For the Program Manager role, the following SAP Fiori apps are not available anymore:

- Approve Decision Points
- Create Portfolio Item Proposals
- Change Portfolio Items

For the Project Team Member role, a new Confirm Project Tasks app is available.

Business Process-Related Information

The functionality is also provided by corresponding Web Dynpro applications, therefore no major impact is expected.

Required and Recommended Action(s)

If you are using the apps for the Program Manager role, check the Web Dynpro applications.
How to Determine Relevancy

If you are using Fiori applications, check on the frontend system in the service catalog (transaction /IWFND/MAINT_SERVICE) whether the ODATA Services PPM_PFMITPR_CRE, PPM_PFMITPR_CHG, PPM_PFMDCPT_APV and PPM_PROTSK_CNF are used.

36.9 S4TWL - Portfolio Structure Graphic in SAP Portfolio and Project Management for

Application Components: PPM-PFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2360046</td>
<td>S4TWL - Portfolio Structure Graphic in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP Portfolio and Project Management for SAP S/4HANA, the graphic view of the portfolio structure is no longer available.

Business Process-Related Information

No effects on business processes are expected.

Required and Recommended Action(s)

The table view for the portfolio structure is still available. No further actions expected.

How to determine Relevancy
This SAP S/4HANA Transition Worklist item is relevant if you are using portfolio management.

36.10S4TWL - SAP Smart Forms in SAP Portfolio and Project Management for SAP S/4HANA

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2359421</td>
<td>S4TWL - SAP Smart Forms in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP Portfolio and Project Management for SAP S/4HANA, SAP Smart Forms for printing Project Management information like Status Reports and so on are no longer available. Instead the Adobe PDF-based Forms can be used.

Business Process-Related Information

No effects on business processes are expected.

Required and Recommended Action(s)

No further actions expected.

How to Determine Relevancy

To determine if this Simplification Item is relevant please check if you use SAP Smart Forms for printing Project Management information.
Other Terms

Smart Forms

36.11S4TWL - Resource Management Web Dynpro Views in SAP Portfolio and Project Manage

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The old Resource Management views (invisible by default, but possible to make them visible by BAdI DPR_RES_OVERVIEW) are not available in SAP Portfolio and Project Management for SAP S/4HANA. Instead the new overview views can be used.

Business Process-Related Information

No effects on business processes are expected.

Required and Recommended Action(s)

No further actions expected.

Other Terms

DPR_RES_MAIN, VI_ROL_LIST_R, VI_ROL_LIST_S
36.12S4TWL - WebDAV and EasyDMS Integration in SAP Portfolio and Project Management f

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2359479</td>
<td>S4TWL - WebDAV and EasyDMS Integration in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

In SAP Portfolio and Project Management for SAP S/4HANA, the WebDAV integration and EasyDMS integration are not available.

**Business Process-Related Information**

It is no longer possible to exchange data using WebDAV integration or EasyDMS integration.

**Required and Recommended Action(s)**

SAP recommends to evaluate SAP Document Center as a substitute.

**How to Determine Relevancy**

To determine if this Simplification Item is relevant please check if you use WebDAV and EasyDMS Integration.

36.13S4TWL - SAP Portal Integration in SAP Portfolio and Project Management for SAP S

Application Components: PPM-PRO

Related Notes:
## Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 2361179 | S4TWL - SAP Portal Integration in SAP Portfolio and Project Management for SAP S/4HANA

### Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

### Solution

#### Description

In SAP Portfolio and Project Management for SAP S/4HANA, the integration to SAP NetWeaver Portal is not available.

#### Business Process-Related Information

SAP recommends to evaluate SAP NetWeaver Business Client as a substitute.

### How to Determine Relevancy

This Simplification Item is relevant if SAP Portfolio and Project Management runs in an SAP NetWeaver Portal.

**36.14S4TWL - cRoom Integration in SAP Portfolio and Project Management for SAP S/4HAN**

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2361186</td>
<td>S4TWL - cRoom Integration in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>
Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP Portfolio and Project Management for SAP S/4HANA, the cRoom integration is not available.

Business Process-Related Information

It is no longer possible to exchange data using the cRoom integration.

Required and Recommended Action(s)

SAP recommends to evaluate SAP Document Center as a substitute.

How to Determine Relevancy

To determine if this Simplification Item is relevant please check if you use cRoom integration.

36.15S4TWL - xPD Integration in SAP Portfolio and Project Management for SAP S/4HANA

Application Components: PPM-PRO, PPM-PFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2361181</td>
<td>S4TWL - xPD Integration in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom
You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP Portfolio and Project Management for SAP S/4HANA, the SAP xPD integration is no longer available.

**Business Process-Related Information**

It is no longer possible to exchange data between SAP Portfolio and Project Management for SAP S/4HANA and SAP xPD.

**Required and Recommended Action(s)**

SAP recommends to evaluate SAP Innovation Management as a substitute.

### 36.16S4TWL - Xcelsius Integration in SAP Portfolio and Project Management for SAP S/4

**Application Components:** PPM-PFM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2361194</td>
<td>S4TWL - Xcelsius Integration in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
In SAP Portfolio and Project Management for SAP S/4HANA, the Xcelsius integration is not available.

**Business Process-Related Information**

It is no longer possible to exchange data using Xcelsius integration.

**Required and Recommended Action(s)**

No further actions expected.

**How to Determine Relevancy**

To determine if this Simplification Item is relevant please check if you use Xcelsius integration.

**36.17S4TWL - SAP BusinessObjects Explorer Integration in SAP EPPM**

Application Components: PPM-PRO

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2361202</td>
<td>S4TWL - SAP BusinessObjects Explorer Integration in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP Portfolio and Project Management for SAP S/4HANA, the SAP BusinessObjects Explorer integration is not available.
It is no longer possible to analyze data using SAP BusinessObjects Explorer integration.

**Required and Recommended Action(s)**

No further actions expected.

**How to Determine Relevancy**

This Simplification Item is relevant if in the customizing of global settings the setting 0007/0028 contains HTTP destination.

### 36.18S4TWL - Project simulation in SAP Portfolio and Project Management for SAP S/4H

**Application Components:** PPM-PRO

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2361201</td>
<td>S4TWL - Project simulation in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP Portfolio and Project Management for SAP S/4HANA, project simulation without an operative project is not available.

**Business Process-Related Information**

It is only possible to create project simulations based on operative projects.

**Required and Recommended Action(s)**
No further actions expected.

36.19S4TWL - Deletion of obsolete packages in EPPM

Application Components: PPM-PRO, PPM-PFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368899</td>
<td>S4TWL - Deletion of obsolete packages</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP Portfolio and Project Management for SAP S/4HANA, packages with development objects that were already obsolete in SAP Portfolio and Project Management 6.1 have been deleted.

**Business Process-Related Information**

No effects on business processes are expected.

**Required and Recommended Action(s)**

No further actions necessary.

**Related SAP Notes**

36.20S4TWL - Business Partner in SAP Portfolio and Project Management for SAP S/4HANA

Application Components: PPM-PFM, PPM-PRO
Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

What has changed in Business User Management in SAP S/4HANA?

To get an understanding on the background of the changes in Business User Management and how to handle business users and business partners please refer to the Business Impact note:

https://launchpad.support.sap.com/#/notes/2570961 Simplification item S4TWL - Business User Management

How do the changes in Business User Management in SAP S/4HANA impact handling of business partners in SAP Portfolio and Project Management?

In addition to what is mention in note 2570961, it is important to know that it is not possible any longer to create and maintain business partners of role category WFM001 ‘Resource’ with user assignment by using transaction BP.

With SAP S/4HANA 1809 FPS01 Fiori app ‘Maintain Resources’ has been introduced to create new resources and edit existing resources (business partner with role category WFM001 ‘Resource’) with user assignment.
Important to know:

When a business partner has been created with app Maintain Resource, this business partner is not assigned and cannot be assigned to an existing business partner of role category employee.

In case a business partner of role category BUP003 ‘Employee’ exists, it is possible to maintain in addition role category ‘Resource’ by using transaction BP

Required and Recommended Action(s)

SAP recommends to evaluate the options described in the above mentioned simplification note https://launchpad.support.sap.com/#/notes/2570961 and in addition the above mentioned option for business partners of role category WFM001 ‘Resource’ in SAP Portfolio and Project Management.

How to Determine Relevancy

This Simplification Item is relevant if business partners of type BUP003 'Employee' and type WFM001 'Resource' have been used in SAP Portfolio and Project Management.

Other Terms

Business Partner Approach, Resources

36.21S4TWL - Simplified ACLs (Access Control Lists) concept in SAP Portfolio and Proj

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2343374</td>
<td>S4TWL - Simplified ACLs (Access Control Lists) concept in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The
following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

A simplified ACLs (Access Control Lists) concept in SAP Portfolio and Project Management for SAP S/4HANA is now in place to reduce business complexity. Some options are not available any longer and a simplified logic leads to different results. Major changes are:

a) All Authorization holders have same weight. For example priority of ‘User’ level authorization before ‘User Group’ authorization will be skipped.

b) Local Authorizations are no longer stronger than inherited ones. All activities are inherited down from all levels above.

c) Authorizations related to organizational units of project elements are not available in SAP Portfolio and Project Management for SAP S/4HANA.

d) 'None' activity is not available in SAP Portfolio and Project Management for SAP S/4HANA.

e) Versions have no own authorizations any more but refer to authorization of corresponding operative project.

f) User Groups are only considered up to the third level until level 3.

d) Activity hierarchy Admin - Write - Read is fixed for Fiori user interfaces. There is no restriction for Web Dynpro user interfaces.

e) Dedicated Authorizations for folders and documents are not supported any more. They inherit the authorizations from their parent project element, e.g. task.

f) New Super User concept available.

SAP Note 2445069 provides a pre-conversion check for this feature.

**Business Process related information**

Since the new and simplified ACLs (Access Control Lists) concept is now used, depending on the maintained authorizations the results of authorization determination could now differ from results of the non simplified authorization concept in the SAP Portfolio and Project Management solution. You can now check and adapt the
authorizations maintained in your projects according to the information given by the pre-check.

**Required and Recommended Action(s)**

In case you used some of the options not available any longer, adjust the maintained authorizations and in addition make knowledge transfer to key and end users.

The note 2321885 contains the report DPR_PRE_CHECK_S4MIG_AUTHREF to analyze the authorizations in a more detailed way than the corresponding pre-conversion check.

**How to Determine Relevancy**

This Simplification Item is relevant in case options have been used that are no longer supported or in case authorizations have been set up in such a way that the new authorization logic leads to different results.

**Other Terms**

S4TC, S/4 Transition, Pre-conversion check, Pre-check, Pre-transformation check to S/4, S/4 PPM, S4PPM, S/4 Portfolio and Project Management

Authorization Inheritance Information Migration, /S4PMM/AUTH_REF, report DPR_PRE_CHECK_S4MIG_AUTHREF

**36.22S4TWL - Handling of actual date in scheduling (EPPM)**

Application Components: PPM-PRO

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2630630</td>
<td>S4TWL - Copying of Actual Task Dates to Calculated Dates in SAP Portfolio and Project Management in SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management in SAP S/4HANA. As of SAP S/4HANA 1809, the following SAP S/4HANA Transition Worklist item is applicable in this case.
It is also applicable when you upgrade your system from SAP Portfolio and Project Management for SAP S/4HANA or from a SAP S/4HANA release below 1809.

Reason and Prerequisites

Revision and simplification of functionality

Solution

Description

With SAP S/4HANA 1809, the default system behavior during task confirmation and project scheduling [in SAP Portfolio and Project Management] has changed as follows: When a task is confirmed, the actual dates are no longer copied to the calculated dates. As a result, actual dates are ignored by default when projects are scheduled.

This change takes effect if you have not implemented the BAdI DPR_SCHEDULING. If you have implemented this BAdI, the system behavior remains unchanged.

Business Process related information

The default scheduling logic has changed since actual dates are no longer taken into account by default.

Required and Recommended Action(s)

You only need to take action if you have not implemented BAdI DPR_SCHEDULING and you do not want to use the new default behavior. Carry out one of the following steps if you still want to copy actual values to calculated values and take them into account during scheduling:

- By default the “Copy Actual to Planned” checkbox is displayed on the “Dates and Work” tab in the “Detail” view of the project header. Select this checkbox to activate the previous behavior for individual projects.
- To return to the previous behavior for all projects, implement BAdI DPR_SCHEDULING. You do not need to implement the BAdI methods. Once the BAdI implementation is active, the “Copy Actual to Planned” checkbox is no longer available in the project header and actual dates are copied to calculated dates by default.

For more information, see the documentation of the methods MOVE_ELEMENT and BUTTON4MOVE_ELEMENT in Customizing for SAP Portfolio and Project Management under Project Management -> Structure -> BAdI: Make Settings for Scheduling.
How to Determine Relevancy

This Transition Worklist item is relevant, if there is no implementation of BAdI DPR_SCHEDULING in your system.

36.23S4TWL - UI5 GANTT replacing JGANTT

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2768224</td>
<td>S4TWL - UI5 GANTT replacing JGANTT</td>
</tr>
</tbody>
</table>

Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management 1.0 for SAP S/4HANA, SAP S/4 HANA 1709 or SAP S/4HANA 1809. The following SAP S/4HANA Transition Worklist item is applicable, if you want to upgrade to a JDK version higher than JDK 10 in the context of the conversion process.

Reason and Prerequisites

Java Browser plugin deprecation, see SAP Note [2283330 - SAP statement about Oracle plans to deprecate Java browser plugins](https://support.sap.com/).

Solution

Business Value

As per note [2283330 - SAP statement about Oracle plans to deprecate Java browser plugins](https://support.sap.com/), the graphical view of the project structure in SAP Portfolio and Project Management for SAP S/4HANA or SAP S/4HANA will no longer work if you upgrade to JDK 11.

The Java plugin (Applet) Gantt control will be replaced by an SAPUI5 Gantt control to make the graphical view of the project structure available in SAP Portfolio and Project Management for SAP S/4HANA or SAP S/4HANA regardless of the JDK version.

Description
As of SAP Portfolio and Project Management 1.0 SP06 for SAP S/4HANA or SAP S/4HANA 1709 SP04 or SAP S/4HANA 1809 FPS2, an SAPUI5 Gantt chart control is available for the visualization of the graphical view of the project structure in SAP Portfolio and Project Management for SAP S/4HANA or SAP S/4HANA.

**Business Process related information**

You can use the graphical view of the project structure regardless of the JAVA version used in your system landscape.

**Required and Recommended Action**

You can still use the JAVA-based Gantt chart, if needed. See the details in note [2645827 - Gantt Chart: Replacement of JGantt by UI5 Gantt: Availability and Prerequisites](#)

**How to Determine Relevancy**

This Transition Worklist Item is relevant for you, if you use the graphical view in your Project Management applications.

**36.24S4TWL - Object links to marketing campaigns in SAP CRM**

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2823375</td>
<td>S4TWL - Object links to marketing campaigns in SAP Customer Relationship Management</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
The integration with marketing campaigns in SAP Customer Relationship Management (SAP CRM) is not available in SAP Portfolio and Project Management for SAP S/4HANA.

**Business Process related information**

It is no longer possible to link from Project Management to marketing campaigns in SAP CRM.

**Required and Recommended Action(s)**

Data related to the integration with marketing campaigns cannot be migrated to SAP Portfolio and Project Management for SAP S/4HANA, therefore it is required to clean up the data before the system conversion in order to prevent any data loss. Archive the corresponding projects or delete not needed integration related data before you continue with the system conversion.

**Other Terms**

CRM, Customer Relationship Management

**36.25S4TWL - Changes compared to older releases than SAP Port. and Proj. Mngt. 6.1**

Application Components: PPM-PFM, PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2349633</td>
<td>S4TWL - Changes compared to older releases than SAP Port. and Proj. Mngt. 6.1</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
SAP provides transition worklist items based on changes between SAP Portfolio and Project Management 6.1 and SAP Portfolio and Project Management for SAP S/4HANA. SAP does not provide transition worklist items for changes that happened already between older releases and SAP Portfolio and Project Management 6.1.

SAP Note 2321885 provides a pre-conversion check for this feature.

**Business Process related information**

Each release of SAP Portfolio and Project Management may contain changes which could impact business processes.

**Required and Recommended Action(s)**

In case you plan a conversion from a release older than SAP Portfolio and Project Management 6.1 to SAP Portfolio and Project Management for SAP S/4HANA, you need to read and check all Release Notes and Upgrade Master Guides of all releases between your start release and (including) SAP Portfolio and Project Management 6.1.

**How to Determine Relevancy**

Check the release of your SAP Portfolio and Project Management installation by logon the ABAP system, open "System" -> "Status.." in the menu and click the button "Components" in the opened dialog.

**36.26S4TWL - Control Plans in SAP Portfolio and Project Management for SAP S/4HANA**

Application Components: PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2353885</td>
<td>S4TWL - Control Plans in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

In SAP Portfolio and Project Management for SAP S/4HANA, control plans (incl., for example, control plan templates and search for control plan objects) are not available anymore. SAP recommends to evaluate the control plan functionality in SAP S/4HANA as a substitute.

Business Process-Related Information

In case that control plans are used, the corresponding business processes have to be adapted.

Required and Recommended Action(s)

The control plan data cannot be migrated to SAP Portfolio and Project Management for SAP S/4HANA, therefore it is required to clean up the data before the system conversion in order to prevent any data loss. Archive the corresponding projects or delete not needed control plan data before you continue the system conversion.

The control plan UI field customizing (customer own) cannot be migrated to SAP Portfolio and Project Management for SAP S/4HANA, therefore needs to be deleted. Further details are described in the consulting note 2363785.

Other Terms

S4TC, S/4 Transition, Pre-conversion check, Pre-check, Pre-transformation check to S/4, S/4 PPM, S4PPM, S/4 Portfolio and Project Management, Control Plan, Control Plan UI field customizing, PPM_FUNC_CNTR_PLAN_01, PPM_FUNC_CNTR_PLAN_02

36.27S4TWL - HTTP-Based Document Management in SAP Portfolio and Project Management f

Application Components: PPM-PFM, PPM-PRO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2353984</td>
<td>S4TWL - HTTP-Based Document Management in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>
Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP Portfolio and Project Management for SAP S/4HANA, the HTTP-Based Document Management for the check-in/check-out of documents is no longer available. The HTTP-Based check-in/check-out feature had provided the possibility to upload and download documents including the possibility to checkout a document and open a document with the specified client application. The HTTP-based check-in/check-out required a Java installation and a valid certificate on client-side.

Business Process-Related Information

No effects on business processes are expected.

Required and Recommended Action(s)

The functionality to upload and download documents is still available and can be used. No further actions necessary.

How to Determine Relevancy

Please check the Global Settings in Customizing: SAP Portfolio and Project Management -> Project Management -> Basic Settings -> Override Default Global Settings. If Master Switch 0007 (General Default Values) 0027 (Check-in/Check-out of Documents (' ': Normal, 'X': HTTP-Based)) is set to ‘X’, the Transition Worklist item is relevant.

36.28S4TWL - Object Links to SAP Environmental Compliance in SAP Portfolio and Projec

Application Components: PPM-PFM, PPM-PRO

Related Notes:
### Symptom

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

### Solution

#### Description

Object Links to SAP Environmental Compliance are not longer available in SAP Portfolio and Project Management for SAP S/4HANA.

#### Business Process-Related Information

Objects from SAP Environmental Compliance can't be linked to a project or portfolio item anymore in SAP Portfolio and Project Management for SAP S/4HANA.

#### Required and Recommended Action(s)

In case you plan to use a similar functionality in SAP Portfolio and Project Management for SAP S/4HANA, you may create a custom own object link type.

### Related SAP Notes

#### 36.29S4TWL - Microsoft Project Import/Export in SAP Portfolio and Project Management

Application Components: PPM-PFM, PPM-PRO

### Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2359065</td>
<td>S4TWL - Object Links to SAP Environmental Compliance in SAP Portfolio and Project Management for SAP S/4HANA</td>
</tr>
</tbody>
</table>
Business Impact | 2358463 | S4TWL - Microsoft Project Import/Export in SAP Portfolio and Project Management for SAP S/4HANA

**Symptom**

You want to convert your existing system landscape from SAP Portfolio and Project Management to SAP Portfolio and Project Management for SAP S/4HANA. The following SAP Portfolio and Project Management for SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP Portfolio and Project Management for SAP S/4HANA, the import/export function for Microsoft Project Client data has been changed. The system no longer uses the binary file format of Microsoft Project (.MPP). Instead the XML format for Microsoft Project is used. After downloading the file, you can open it with your Microsoft Project application.

Neither an ActiveX installation nor a definition of security lists for office controls is required.

**Business Process-Related Information**

No effects on business processes are expected.

**Required and Recommended Action(s)**

No further actions are expected.

**How to determine relevancy**

This transition worklist item is relevant, if Microsoft Project Import or Export is used.
37. Procurement

37.1 S4TWL - MM-PUR WebDynpro Applications

Application Components: MM-PUR-GF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267445</td>
<td>S4TWL - MM-PUR WebDynpro Applications</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

WebDynpro Applications of SAP ERP Materials Management (MM) are not available with SAP S/4HANA, on-premise edition 1511 any more.

The corresponding functionality is replaced with existing SAP GUI transactions, Fiori applications or Smart Business within SAP S/4HANA, on-premise edition 1511.

The coverage of Fiori applications will grow over time.

Business Process related information

ABAP Web Dynpro Applications not available in SAP S/4HANA.

<table>
<thead>
<tr>
<th>WebDynpro Application</th>
<th>Description</th>
<th>SAP S/4HANA Replacement</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMPUR_CPPR_MAIN_APPL</td>
<td>Collective Processing of Purchase Requisition</td>
<td>SAP GUI report BBP_EXTREQ_TRANSFER, Fiori Application</td>
</tr>
<tr>
<td>MMPUR_SPPR_MAIN_APPL</td>
<td>Purchase Requisition Processing</td>
<td>SAP GUI transaction ME51N, Fiori Application</td>
</tr>
<tr>
<td>MMPUR_ACCOUNT_ASSIGN_COMP</td>
<td>Account assignments</td>
<td></td>
</tr>
<tr>
<td>MMPUR_ADDRESS_COMP</td>
<td>Display Address</td>
<td></td>
</tr>
<tr>
<td>SAP Function Code</td>
<td>Description</td>
<td>Related Features</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>MMPUR_BWLAUNCHER_APP</td>
<td>BW Starter</td>
<td>Smart Business? BW Integration?</td>
</tr>
<tr>
<td>MMPUR_CFOLDERS_EP_EVENT</td>
<td>Document Storage</td>
<td></td>
</tr>
<tr>
<td>MMPUR_CFOLDERS_URL_APP</td>
<td>Document Storage</td>
<td></td>
</tr>
<tr>
<td>MMPUR_DISP_SCHEDLINE_APP</td>
<td>Display of Delivery Schedule Lines for Item</td>
<td></td>
</tr>
<tr>
<td>MMPUR_DOCTRK_APP</td>
<td>Document Tracing</td>
<td></td>
</tr>
<tr>
<td>MMPUR_DOC_TRACE</td>
<td>Graphical document tracing</td>
<td></td>
</tr>
<tr>
<td>MMPUR_FINDSUPPLIER_COMP</td>
<td>Find Supplier</td>
<td></td>
</tr>
<tr>
<td>MMPUR_FORECAST_APP</td>
<td>Expected Contract Release Orders</td>
<td>Smart Business?</td>
</tr>
<tr>
<td>MMPUR_MAVERICK_APP</td>
<td>Maverick Buying Analysis</td>
<td>Smart Business?</td>
</tr>
<tr>
<td>MMPUR_PRICECOND_APP</td>
<td>Pricing Conditions</td>
<td></td>
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<tr>
<td>MMPUR_RELEASEDOC_APP</td>
<td>Contract Release Order</td>
<td></td>
</tr>
<tr>
<td>MMPUR_REL_STRAT_APP</td>
<td>Release Strategy</td>
<td></td>
</tr>
<tr>
<td>MMPUR_SRCOF_SUPPLY_APP</td>
<td>Display Sources of Supply</td>
<td></td>
</tr>
<tr>
<td>MMPUR_UI_PR_APP</td>
<td>Purchase Requisition Processing</td>
<td></td>
</tr>
<tr>
<td>MMPUR_VNDCONF_APP</td>
<td>Process Different Vendor Confirmations</td>
<td></td>
</tr>
<tr>
<td>MMPUR_VNDCTCDATA_APP</td>
<td>Display of Vendor Contact Data Including Contact Persons</td>
<td></td>
</tr>
<tr>
<td>MMPUR_VNDPARTNER_APP</td>
<td>Display of Partner Roles of a Vendor</td>
<td></td>
</tr>
</tbody>
</table>

**Related SAP Notes**

Custom Code related information | SAP Note: 2228261
37.2 S4TWL - Classic MM-PUR GUI Transactions replacement

Application Components: MM-PUR-GF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267449</td>
<td>S4TWL - Classic MM-PUR GUI Transactions replacement</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Classic SAP ERP Materials Management (MM) transactions and BAPIs for the business objects Purchase Order, Purchase Requisition, and Supplier Invoice have been replaced by the corresponding transactions and BAPIs made available with SAP R/3 Enterprise 4.70.

With SAP S/4HANA, on-premise, these classic MM transactions and BAPIs are **NO longer supported**. The replacements that are available since SAP R/3 Enterprise 4.70 shall be used.

Business Process related information

No influence on business processes expected.

Transactions are **NO longer supported** in SAP S/4HANA on-premise edition:

<table>
<thead>
<tr>
<th>ME21</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME22</td>
</tr>
<tr>
<td>ME23</td>
</tr>
<tr>
<td>ME24</td>
</tr>
<tr>
<td>ME25</td>
</tr>
<tr>
<td>ME27</td>
</tr>
</tbody>
</table>
**ME28**
**ME51**
**ME52**
**ME53**
**ME54**
**ME59**
**MR01**
**MR1M**

<table>
<thead>
<tr>
<th>BAPIs are <strong>NO longer supported</strong> in SAP S/4HANA on-premise edition</th>
<th>BAPI_PO_CREATE</th>
<th>BAPI_REQUISITION_CREATE</th>
<th>BAPI_PO_GETDETAIL</th>
</tr>
</thead>
</table>

**Required and Recommended Action(s)**

See SAP notes:

- 1803189: FAQ: End of Support of ME21, ME51, and BAPI_PO_CREATE etc.
- 144081: Replacing MR01 / Functions of MR1M (Release 4.6)
- Specific data retrieval using BAPI_PO_GETDETAIL1 compared to BAPI_PO_GETDETAIL is limited and hence new BAPI_PO_GETDETAIL1 may consume more time.
  To improve response time, use BAdI me_bapi_po_cust method text_output if text data retrieval is not required.

**Other Terms**

S4, S/4HANA, system conversion,

**37.3 S4TWL - Dedicated SAP Supplier Lifecycle Management (SAP SLC) business processes**

Application Components:SLC-SUP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271188</td>
<td>S4TWL - Dedicated SAP Supplier Lifecycle Management (SAP SLC) business processes</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The following processes are supported with limitations:

- Supplier Evaluation
- Category Management
- Activity Management (internal)

The following processes of SAP Supplier Lifecycle Management (SAP SLC) are not available within SAP S/4HANA, on-premise edition 1511:

- All sell-side processes (e.g. Supplier Registration and Supplier Data Maintenance)
- Several buy-side processes (e.g. Supplier Hierarchies, Supplier Classification, Area of Validity in Supplier Evaluation, Supplier Qualification, Certificate Management, External Tasks in Activity Management)

Business Value

It is a strategic decision of SAP to consolidate functionalities of Supplier Lifecycle Management (SLC) within SAP S/4HANA Supplier and Category Management together with SAP Ariba solutions.

Business Process related information

The functional scope of Supplier and Category Management in SAP S/4HANA is currently not identical with the SAP SLC functionalities.

Conversion support is not available.

Required and Recommended Action(s)
We recommend that you evaluate on a project basis whether you want to use Supplier and Category Management in SAP S/4HANA or whether you want to use SAP SLC as a standalone system to leverage the full functional scope of SAP SLC.

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>Implementation Target Release S/4HANA &lt;=1709: 2186288</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Implementation Target Release S/4HANA &gt;1709: 2441434</td>
</tr>
<tr>
<td></td>
<td>General Description: 2187627</td>
</tr>
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</table>

37.4 S4TWL - Supplier Distribution via MDG-S

Application Components: SLC-SUP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267719</td>
<td>S4TWL - Supplier Distribution via MDG-S</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

After the conversion of SAP ERP to S/4HANA, customers who have been using SAP SLC as a standalone system communicating with SAP ERP have to use MDG-S (Master Data Governance for Suppliers) for supplier distribution.

Business Value

To ensure data secureness it is necessary to use MDG-S (Master Data Governance for Suppliers) for supplier distribution.

Business Process related information

SAP S/4HANA leverages MDG-S for supplier distribution. The MDG-S license is not part of the SAP S/4HANA license.
Required and Recommended Action(s)

A project needs to be set up to implement MDG-S for supplier distribution.

Related SAP Notes

| Custom Code related information | Information | If customers have enhanced interfaces for point-to-point supplier distribution from SAP SLC to SAP ERP using the SLC integration component in SAP ERP, communication with MDG-S must be enhanced accordingly. |

37.5 S4TWL - Authorization Concept for Supplier Invoice

Application Components: MM-IV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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</thead>
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<tr>
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<td>2271189</td>
<td>S4TWL - Authorization Concept for Supplier Invoice</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The previous concept was based on checking header data against the item authorization object for all items. The system checked for all items if a user was allowed to complete certain activities in the plants.

With the new concept, the behaviour of the system is more comprehensive. The new concept introduces a header authorization object that enables the system to perform the following authorization checks:

- Check header data against the header authorization object (M_RECH_BUK). This authorization object checks the common activities a user performs for the header company code.
- Check item data against the item authorization object (M_RECH_WRK). This authorization object checks the common activities a user performs for the plant for the respective item.
Business Value

The new authority concept for supplier invoice enables a simplified handling especially for invoice items w/o PO reference.

Business Process related information

No influence on business processes expected

Required and Recommended Action(s)

You must edit the user roles. Users working with supplier invoices, additionally need the authorizations based on M_RECH_BUK.

The standard roles delivered with SAP S/4HANA contain this new authorization object. If the customer roles are derived from these standard roles, you must do the following:

- Edit the values of the organizational levels for the new authorization object M_RECH_BUK.
- Regenerate the profiles related to the roles using PFCG.

If you have created a role by yourself, you must manually insert the authorization object M_RECH_BUK into the role. You can do this preliminary work once SAP S/4HANA is available.

37.6 S4TWL - Foreign Trade within SAP S/4HANA Procurement

Application Components: MM-FT

Related Notes:

<table>
<thead>
<tr>
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<th>Note Number</th>
<th>Note Description</th>
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<td>2267740</td>
<td>S4TWL - Foreign Trade within SAP S/4HANA Procurement</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description
Currently there are two software services for international trade transactions: Foreign Trade and SAP Global Trade Services (GTS). Foreign Trade is part of standard Materials Management (MM).

SAP GTS is an external service that can be installed on a separate instance. With SAP S/4HANA on-premise edition 1511, the Foreign Trade solution will be not available anymore because SAP Global Trade Services (GTS) is the successor for the business requirement.

For *Intrastat* a customer can leverage functionality within SAP S/4HANA, on-premise edition 1511.

Additional functions for import and export management are available with SAP Global Trade GTS.

**Business Value**

It is a strategic decision of SAP to use SAP Global Trade Services for international trade processes. Furthermore, selected international trade functionalities will be provided with Foreign Trade in SAP S/4HANA.

**Business Process related information**

The customer needs to check whether 3rd party foreign trade systems are in use for foreign trade processes. Because of the replaced foreign trade functionality in S/4HANA, it is possible that 3rd party foreign trade system will need adjustments by the respective 3rd party Solution/Service Provider. However, SAP GTS can be connected to S/4HANA to run the respective foreign trade processes.

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<td>Create INTRASTAT file for Holland</td>
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<td>VE11</td>
<td>Create INTRASTAT file for Spain</td>
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<td>VX00</td>
<td>Preference Handling</td>
</tr>
<tr>
<td>LEAN</td>
<td>Request long-term VendDecl. (vendor)</td>
</tr>
<tr>
<td>LEMA</td>
<td>Dun long-term vendor decl. (vendor)</td>
</tr>
<tr>
<td>VE67</td>
<td>Aggregate Vendor Declarations</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>LEER</td>
<td>Create long-term VenDecl. (customer)</td>
</tr>
<tr>
<td>VE55</td>
<td>Preference Determination: Individual</td>
</tr>
<tr>
<td>VE54</td>
<td>Preference Determination: Collective</td>
</tr>
<tr>
<td>VEB5</td>
<td>Calculate Assemblies Individually</td>
</tr>
<tr>
<td>VEB6</td>
<td>Calculate Assemblies Collectively</td>
</tr>
<tr>
<td>VEPR</td>
<td>Customs log</td>
</tr>
<tr>
<td>VE91</td>
<td>Display Preference Values</td>
</tr>
<tr>
<td>VE90</td>
<td>Change preference values</td>
</tr>
<tr>
<td>VE83</td>
<td>Check Report: Preference Data</td>
</tr>
<tr>
<td>VE66</td>
<td>Preference Procedure</td>
</tr>
<tr>
<td>VE65</td>
<td>Preference Reg./Percentage Rates</td>
</tr>
<tr>
<td>VE64</td>
<td>Commodity Code/Customs Areas</td>
</tr>
<tr>
<td>VE94</td>
<td>Load Commodity Code for EU Countries</td>
</tr>
<tr>
<td>VEM4</td>
<td>Merge: EU - Commodity Code</td>
</tr>
<tr>
<td>VI94</td>
<td>Load Import Code Nos - EU Countries VIM4 - Import Code Number</td>
</tr>
<tr>
<td>VA94</td>
<td>Load Commodity Codes for Japan</td>
</tr>
<tr>
<td>VAM4</td>
<td>Merge: Japan - Commodity Code</td>
</tr>
<tr>
<td>VP94</td>
<td>Load Import Code No. for Japan</td>
</tr>
<tr>
<td>VPM4</td>
<td>Merge: Japan - Import Code Number</td>
</tr>
<tr>
<td>VEU4</td>
<td>Load Commodity Code-Other Countries</td>
</tr>
<tr>
<td>VEI4</td>
<td>Merge: Remaining Commodity Codes</td>
</tr>
<tr>
<td>VIU4</td>
<td>Load Import Code No.-Other Countries</td>
</tr>
<tr>
<td>VIU4</td>
<td>Merge: Rest - Import Code Number</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>VE24</td>
<td>Comm. Code Number Information (old)</td>
</tr>
<tr>
<td>VI24</td>
<td>Code Number Information – Import</td>
</tr>
<tr>
<td>VI20</td>
<td>Display Customs Quota</td>
</tr>
<tr>
<td>VI21</td>
<td>Display Pharmaceutical Products</td>
</tr>
<tr>
<td>VI22</td>
<td>Display Customs Exemption</td>
</tr>
<tr>
<td>VI23</td>
<td>Display Preferential Customs Duties</td>
</tr>
<tr>
<td>VI19</td>
<td>Display Third-country Customs Duties</td>
</tr>
<tr>
<td>VI18</td>
<td>Display Anti-dumping</td>
</tr>
<tr>
<td>VXA3</td>
<td>Financial Documents: Blocked Docs VXA2 Financial Documents</td>
</tr>
<tr>
<td>VE68</td>
<td>Request Vendor Declarations</td>
</tr>
<tr>
<td>VI75</td>
<td>Vendor Declarations - Dunning notice</td>
</tr>
<tr>
<td>VE84</td>
<td>Monitoring: Purchasing Info Records</td>
</tr>
<tr>
<td>VE83</td>
<td>Check Report: Preference Data</td>
</tr>
<tr>
<td>VXSIM</td>
<td>Simulate Import</td>
</tr>
<tr>
<td>WZFT01</td>
<td>FT: Wizard - Declara. to Auth. (MM)</td>
</tr>
<tr>
<td>WZFT02</td>
<td>FT: Wizard - Declara. to Auth. (SD)</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Analysis of all currently used foreign trade processes.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2223144 |

**37.7 S4TWL - RFQ Simplified Transaction**

Application Components: MM-PUR-RFQ

Related Notes:
Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Reason and Prerequisites

The previous concept was based on requests for quotations (RFQs) that included a mandatory supplier field. In addition, the number of suppliers that could be entered for each RFQ was limited to one. This restriction doesn’t fit to multiple sourcing-related integration scenarios, such as Sourcing with SAP Ariba Sourcing.

Solution

New concept enables the system to send RFQs, that were created in a Fiori app, to external sourcing platforms without mentioning exact supplier. On the sourcing platform, the registered suppliers can submit their quotations which are later available to the purchaser.

Following IDOCS and transactions related to RFQ are not considered as the target architecture. This means that the functionality is currently available in SAP S/4HANA but it is not considered as future technology and a functional equivalent is not available.

These IDocs are replaced with cXML messages:

- REQOTE (Basic IDoc type = ORDERS05) is the IDoc for RFQ
- QUOTES (Basic IDoc type = ORDERS05) is the IDoc for supplier quotation

It is planned to introduce SOAP-based messages to further replace cXML messages for RFQ and supplier quotation.

The following transactions are deprecated in SAP S/4HANA:

- ME41 Create
- ME42 Change
- ME43 Display
- ME44 Maintain Supplement
- ME45 Release
- ME47 Maintain
- ME48 Display

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2332710</td>
<td>S4TWL-RFQ Simplified Transaction</td>
</tr>
</tbody>
</table>
ME49  Price Comparison List
ME4B  RFQs by Requirement Tracking Number
ME4C  RFQs by Material Group
ME4L  RFQs by Vendor
ME4M  RFQs by Material
ME4N  RFQs by RFQ Number
ME4S  RFQs per Collective Number

Business Process Related Information

If you want to use functionality related to sourcing of goods and services, you can use the following apps:

- Manage RFQs (F2049)
- Monitor RFQ Items (F2425)
- Request for Quotation Types (F4149)
- Manage Supplier Quotations (F1991)
- Compare Supplier Quotations (F2324)

Before you start to use Fiori apps mentioned above you need to close your open RFQs, that were created via old transactions, and set them to status "Completed”.

Required and Recommended Action(s)

You have to maintain the user roles. The new Fiori apps are accompanied by the standard roles that contain relevant authorization objects. The relevant business roles are:

- SAP_BR_PURCHASER (Purchaser) for the apps:
  - Manage RFQs (F2049)
  - Monitor RFQ Items (F2425)
  - Manage Supplier Quotations (F1991)
  - Compare Supplier Quotations (F2324)

- SAP_BR_BUYER (Strategic Buyer) for the app:
  - Request for Quotation Types (F4149)

Other Terms

SAP S/4HANA, System Conversion, Upgrade, Request for Quotation, Supplier Quotation
37.8 S4TWL - Webdynpro Applications for Purchase Requisition Transfer from ERP to SRM

Application Components:MM-PUR-REQ

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2200412</td>
<td>MM-Transition to S/4: Web Dynpro Applications for Requisitioning</td>
</tr>
</tbody>
</table>

Symptom

You want to execute a transition of your ERP system to S/4 HANA.

Reason and Prerequisites

CPPR (Collective Processing of Purchase Requisitions) and SPPR (Single Processing Of Purchase Requisitions) no longer available in S/4HANA

Solution

SAP® S/4HANA is SAP's next-generation business suite, it is not a legal successor of any SAP Business Suite product. It is a new product completely built on one of the most advanced in-memory platform today – SAP HANA® – and modern design principles with the SAP Fiori user experience (UX). SAP S/4HANA delivers massive simplifications (customer adoption, data model, user experience, decision making, business processes, and models) and innovations (Internet of Things, Big Data, business networks, and mobile-first) to help businesses Run Simple in the digital economy.

In the approach to build SAP S/4HANA, SAP is re-architecting its solution for modern business processes demanded by an increasing digitization of the world. Re-architecting a solution that has been growing over the past 25 years means and sometimes evolved into different data structures and architectures means as well that we have to decide on one data structure and architecture moving forward. This is the only way how we can prepare the solution for more simplicity and faster innovation cycles.

Following the SAP Fiori user experience and simplification approach, the portal content and web dynpro applications for CPPR (Collective Processing of Purchase Requisition) and SPPR (Single Processing Of Purchase Requisitions) are no longer available in S/4HANA.
Other Terms

CPPR, SPPR

37.9 S4TWL - Co-Deployment of SAP SRM

Application Components: MM-PUR-GF, SRM-EBP-SHP, SRM-CAT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271166</td>
<td>S4TWL - Co-Deployment of SAP SRM</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP ERP it is possible to deploy SAP SRM as an AddOn. With SAP S/4 HANA this AddOn deployment is not possible anymore. Therefore, a de-installation of the SRM AddOn is necessary when converting the SAP ERP system to SAP S/4 HANA.

Business Process related information

SRM Self-Service Procurement capabilities are re-implemented within SAP S/4 HANA. The functional scope is described in the feature scope description under the solution capability of Self-Service Requisitioning. The functional scope is not identical with the SAP SRM functionality. However it is planned to reach functional equivalence over time by continuous improvement of the S/4 HANA capabilities. There are migration reports available to transfer the business data from the SAP SRM AddOn to the SAP S/4 HANA system.

Business Value

Providing Self-Service Requisitioning as an integral part of S/4 HANA has several business benefits compared to the old AddOn deployment:

- Data structures are simplified, e.g. no shopping cart data anymore, instead only purchase requisition data is used
• Seamless UI integration based on SAP Fiori (formerly GUI and WebDynpro) as well as seamless process integration
• No master data replication (formerly data replication between SRM AddOn and ERP core)

Required and Recommended Action(s)

Perform Conversion pre-check to identify the constellation on SAP Business Suite start release.

Related SAP Note

2216943  S4TC SRM_SERVER master check for S/4 system conversion checks

2251946  Informational note about migration of SAP SRM shopping carts to SAP S/4 HANA SSP

37.10S4TWL - Supplier Invoice New Archiving

Application Components: MM-IV, MM-IV-GF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2578291</td>
<td>Simplification Item: Supplier Invoice Archiving</td>
</tr>
</tbody>
</table>

Symptom

Supplier Invoice Archiving does not fully support ILM Integration

Solution

With upgrade to 1809 ILM Integration is fully supported.

Please note: BAdI Implementations used in the old archiving reports (RM08RARC, RM08RADE) are no longer supported. The new archiving reports (RM08RW47, RM08RD47) use other BAdIs (ARC_MM_REBEL_WRITE, ARC_MM_REBEL_CHECK) which need to be newly implemented.
37.11S4TWL - New Customizing for Exchange Rate Difference Handling

Application Components: CO-PC-ML, MM-IV-LIV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3053636</td>
<td>S4TWL: New Customizing for Exchange Rate Difference Handling</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The IMG activity "Configure How Exchange Rate Differences Are Treated" in the area of Logistics Invoice Verification is redesigned with SAP S/4HANA 2021. Up to SAP S/4HANA 2021 configuration was saved in table T169P. With SAP S/4HANA 2021 the configuration is saved in table FMLC_ERD. Existing configuration from table T169P is converted into FMLC_ERD automatically at upgrade (XPRA FML_XPRA_T169P_TO_FMLC_ERD).

Required and Recommended Action(s)

Custom code that uses the old customizing of exchange rate difference handling has to be adopted. The following fields of table T169P are affected:

- XPLCU
- KURST
- CTHW
- KDHW
- CTML1
- KDML1
- CTML2
- KDML2

Details are attached.

Existing implementations of Business Add-In (BAdI) MIRO_ERD_INVOICE (enhancement spot ES_BADI_MM_EXCHANGE_RATE_DIFF) are not affected.
Parameter I_T169P is still filled whereas the new table FMLC_ERD is used. Additionally the new parameter IS_ERD_SETTING was introduced that contains the customizing information for the currency type (CURTP) the BAdI is called for.

Other Terms

ERD

37.12S4TWL - Deprecation of Fiori Apps and Machine Learning Scenarios

Application Components: MM-PUR-REQ

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3376141</td>
<td>Deprecation of Fiori Apps and Machine Learning Scenarios - SAP S/4HANA 2023</td>
</tr>
</tbody>
</table>

Symptom

You are using machine learning scenarios and the Fiori apps described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Reason and Prerequisites

Deprecation

Solution

Description

Following Fiori apps are deprecated as of release SAP S/4HANA 2023. This means, these apps are still available and supported but no new features or enhancements can be expected. We plan to make these obsolete in favor of the designated successor functionality as of release SAP S/4HANA 2024:

- Create Purchase Requisition (F1643) - Fiori app
- My Purchase Requisitions (F1639) - Fiori app
- Manage Catalog Item Recommendations (F3293) - Fiori app
• Schedule Export of Catalog Item Images for Machine Learning (F4641) - Fiori app
• Schedule Transfer of Purchase Requisitions for Intelligent Approval (F4155) - Fiori app

Business Process related information

For more details about these deprecations, see the documentation available in Deprecation of Machine Learning Scenarios | SAP Help Portal, Create Purchase Requisition | SAP Help Portal and My Purchase Requisitions | SAP Help Portal.

Deprecated machine learning scenarios are Propose Creation of Catalog Items based on Free-Text Purchase Orders (2XW), Propose Material Group in Free-Text Purchase Requisitions (2XV), Image-Based Buying (3UH) and Intelligent Approval Workflow (43E).

The app tiles are no longer available by default on the SAP Fiori launchpad. You can still access the apps via the app finder and continue using them, but they will be no longer supported as of SAP S/4HANA 2023. Therefore, we recommend that you switch to the designated successor apps.

Required and Recommended Action(s)

We recommend you switch to the following successor apps.

<table>
<thead>
<tr>
<th>Deprecated App</th>
<th>Successor App</th>
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</thead>
<tbody>
<tr>
<td>Create Purchase Requisition (F1643)</td>
<td>My Purchase Requisitions - New (F1639A)</td>
</tr>
<tr>
<td>My Purchase Requisitions (F1639)</td>
<td>My Purchase Requisitions - New (F1639A)</td>
</tr>
<tr>
<td>Manage Catalog Item Recommendations (F3293)</td>
<td>No Successor</td>
</tr>
<tr>
<td>Schedule Export of Catalog Item Images for Machine Learning (F4641)</td>
<td>No Successor</td>
</tr>
<tr>
<td>Schedule Transfer of Purchase Requisitions for Intelligent Approval (F4155)</td>
<td>No Successor</td>
</tr>
</tbody>
</table>

Other Terms

SAP S/4HANA, Deprecation
37.134TWL - CI Include Conflicts in EKKO_INCL_EEW_PS and EKPO_INCL_EEW_PS

Application Components: MM-PUR-PO

Related Notes:

<table>
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<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3092824</td>
<td>Upgrade to S/4HANA 2022 and higher: New Includes in Structures 'EKKO_INCL_EEW_PS' and 'EKPO_INCL_EEW_PS'</td>
</tr>
</tbody>
</table>

Symptom

In S/4HANA 2022, structures 'EKKO_INCL_EEW_PS' and 'EKPO_INCL_EEW_PS' now contain Includes CI_EKKODB (on header level) and CI_EKPODB (on item level), respectively. This may lead to an activation error in phase ACT_UPG for tables/structures where both the structures are included. The error message in ACT_UPG is DT963 "Field <your customer field> in table <your table where both structures are included> is specified twice".

Another possible error is "CI_EKPODB" is not included in table "EKPO" or "CI_EKKODB" is not included in table "EKKO".

Reason and Prerequisites

**Reason:** This change will allow On Premise customers to directly use custom fields in CI Includes in Fiori applications without any data loss. These fields are then available for both Fiori UI as well as GUI screens (VH).

**Prerequisite:** It would be best to check the location of the CI_EKKODB / CI_EKPODB includes before the upgrade and adjust them during the upgrade in SPDD-phase to avoid the duplicate field error.

Solution

To make it clear, the right place for each include is this:

**Purchase Order header:** CI_EKKODB needs to be inside of EKKO_INCL_EEW_PS, which is contained in EKKO table

**Purchase Order item:** CI_EKPODB needs to be inside of EKPO_INCL_EEW_PS, which is contained in EKPO table

To avoid the error "Field is specified twice", proceed as follows if includes CI_EKKODB (on header level) and CI_EKPODB (on item level) exist in your system:
1. In development systems, during phase ACT_UPG when prompted for SPDD, delete the CI_EKKODB / CI_EKPODB Includes or the field(s) of CI_EKKODB / CI_EKPODB from the table/Include where 'EKKO_INCL_EEW_PS' or 'EKPO_INCL_EEW_PS' are also included. Also delete the CI_EKKODB / CI_EKPODB or the field(s) of CI_EKKODB / CI_EKPODB from the Extension views in the CDS stack.
   - Make sure to remove only fields that are contained in CI_EKKODB / CI_EKPODB from tables/Includes by these steps to avoid any data loss.
   - If you remove fields from an appended structure or from table, just save your changes. DO NOT PERFORM 2-step activation at this time, this could lead to data loss. Mass activation will be performed automatically later in phase ACT_UPG.
   - If you delete the appended structure, there is a warning "Deleting the appended structure results in reactivation of and adjustment of the table <your table> on the database". In this situation this warning can be ignored as an adjustment would only happen later during mass activation when <your table> will contain CI_EKKODB / CI_EKPODB directly, so the contents of CI_EKKODB / CI_EKPODB fields will not be lost.

2. Continue with ACT_UPG. The deletion of the appended structure or the change to table/structures will be activated together with the standard change that adds CI_EKKODB / CI_EKPODB to your table/Include, there should be no activation error.
   - In case you didn't perform these steps at SPDD you can still perform them after ACT_UPG was stopped with error DT963 "Field <ZZ-field> in table <your table> is specified twice". In this case you might get the error message DT002 "Table <your appended structure to table> does not exist" when repeating the activation step ACT_UPG after deleting the appended structure. If there is no activation error for other tables or structures, especially no error for table, this DT002 error for the deleted appended structure can be ignored.

3. These changes will be recorded in a transport request. It is advised to do these adjustments and activation in one step in a single transport request. In follow-up systems, include the transport containing the deleted appended structure or the change to table in the upgrade.

In case the CI_EKKODB / CI_EKPODB includes get deleted accidentally from 'EKKO_INCL_EEW_PS' or 'EKPO_INCL_EEW_PS' inside of EKKO / EKPO, there are two options:

- the upgrade can be repeated or
- In the shadow system of the upgrade, customer owned objects but also SAP objects may be modified in the so-called SPDD-phase: before activation! The goal is that customers can transfer or adjust his/her modifications to the new release. In this phase, it is possible to enter the CI_ includes into their respective *EEW* includes inside of EKKO and EKPO. It is important to only save but not activate until all modifications are done. Here, you can check whether
the CI_EKKODB / CI_EKPODB includes that should not be directly inside of EKKO and EKPO table is really not there, otherwise delete it but save only, no activation. Then, in the end, when all is done and checked: mass activate.

**Related issues:**

Since the CI_EKKODB / CI_EKPODB includes occur also in other tables, additional problems may occur during the upgrade. Here some notes/ information to help you get on:

- 3326565 Upgrade issue in MMPUR_ANA_EKET table from OP2022: CI Include merged into EEW for EKKO & EKPO
- 3334975 Upgrade to S/4 HANA 2022: New Includes in Structures 'EKKO_INCL_EEW_X' and 'EKPO_INCL_EEW_X'
- 3319787 Upgrade error on structure PRITEMFORGR due to extension includes
- 3338301 Upgrade issue for CI_EKKODBX and CI_EKPODBX: duplicate fields found -> tool
- 3345237 Upgrade to SAP S/4HANA 2022: Error when changing CI_EKPODB includes. This note tackles the "package MLHELPDESK does not exist" and "table MLREPEKPO does not exist" errors.
- 3282761 Object Activation Errors during Upgrade: Field is specified twice

**Other Terms**

Upgrade to 2022 S/4HANA and higher, CI Include, EKPO, EKKO, CI_EKPODB, EEW, EKKO, ME21N, SPDD, EKPO_INCL_EEW_PS, MMPUR_S_EXT_LCL_PO_HEADER, MMPUR_S_EXT_LCL_PO_ITEM, PRITEMFORGR, MMPUR_ANA_EKET, MLHELPDESK, MLREPEKPO

37.14S4TWL - Co-Deployment of SAP Supplier Lifecycle Management (SAP SLC)

Application Components: SLC-SUP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<td>Business Impact</td>
<td>2267413</td>
<td>S4TWL - Co-Deployment of SAP Supplier Lifecycle Management (SAP SLC)</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The goal is that - over time - the functional scope of SAP Supplier Lifecycle Management (SAP SLC) will be available within the SAP S/4HANA stack together with SAP Ariba solutions. Customers who have deployed SAP Supplier Lifecycle Management on SAP ERP and want to migrate to S/4HANA use those parts of the SAP SLC functionality that have been integrated into the S/4HANA Core and are referred to as "Supplier and Category Management". For the functional differences, see simplification item Dedicated SAP Supplier Lifecycle Management (SAP SLC) business processes. Customers who have been using a standalone SAP SLC system can continue to use it, but have to use MDG-S for supplier data integration. For more information, see simplification item Dedicated SAP Supplier Lifecycle Management (SAP SLC) business processes.

Business Process related information

The functional scope of Supplier and Category Management in SAP S/4HANA is currently not identical with the SAP SLC functionalities.

Master categories in purchasing category are not available. As a successor, material groups are available in purchasing categories.

Business Value

It is a strategic decision of SAP to provide functionalities of Supplier Lifecycle Management (SLC) within SAP S/4HANA Supplier and Category Management together with SAP Ariba solutions.

Required and Recommended Action(s)

Perform the Conversion pre-check to identify the state of the SAP ERP before the conversion to SAP S/4HANA.

Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>Implementation Target Release S/4HANA &lt;=1709: 2186288</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Implementation Target Release S/4HANA &gt;1709: 2441434</td>
</tr>
<tr>
<td></td>
<td>General Description: 2187627</td>
</tr>
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</table>
37.15S4TWL - Vendor evaluation based on LIS

Application Components: MM-PUR-GF-LIS

Related Notes:

<table>
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<tr>
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<tr>
<td>Business Impact</td>
<td>2267414</td>
<td>S4TWL - Vendor evaluation based on LIS</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The current vendor evaluation based on Logistics Information System (Note: If you use a material number longer than 18 characters - see restriction note “Extended Material Number in LIS: SAP Note 2232362”.) is still available with SAP S/4HANA, on-premise edition 1511, but is not considered the target architecture (Functionality available in SAP S/4HANA on-premise edition 1511 delivery but not considered as future technology. Functional equivalent is available.). We recommend that you use the SAP HANA reporting capabilities for vendor evaluation based on CDS views and smart business technology.

**Business Process related information**

The current functions are unchanged within SAP S/4HANA, on-premise edition 1511. No influence on business processes expected.

**Business Value**

The usage of SAP S/4HANA offers real-time supplier evaluation capabilities without building and referring to table and structure aggregates. Beside real-time capabilities, it also provides much more analytical visualization options as LIS.

**Required and Recommended Action(s)**
We recommend that you use the SAP HANA reporting capabilities for vendor evaluation based on CDS views and smart business technology.

Related SAP Notes

| Custom Code related information | SAP Note: 2228247 |

37.16S4TWL - ERP Shopping Cart

Application Components: MM-PUR-SSP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271168</td>
<td>S4TWL - ERP Shopping Cart</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Simplification item is applicable in this case - SI5: PROC_SC.

Reason and Prerequisites

The ERP Shopping Cart has been deprecated in S/4 HANA

Solution

Description

The SAP ERP shopping cart function is not available within SAP S/4HANA, on-premise edition 1511 and will be replaced by S/4HANA Self Service Procurement. The shopping cart function in SAP ERP is associated to the business function LOG_MM_SSP_1 which can be in status ON.

Business Process related information

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>SRMERP/BRFP_DSS_SC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>SRMERP/BRFP_DS_APPR</td>
</tr>
<tr>
<td></td>
<td>SRMERP/BRFP_DS_SC</td>
</tr>
<tr>
<td>/SRMERP/BRFP_FOOTY</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/BRFP_FOO_TYP</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/BRFP_MATGRP</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/BRFP_MOV_TYP</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/BRFP_PROC_L</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/BRFP_PROC_S</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/BRFP_PURGRP</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/DISPLAY_LOGS</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/SC_ARCHIVING</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/SNUM</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WF_GEN</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_CAT_ADAPTER</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_DSS_DS</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_SC_ESS</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_SC_FS_ESS</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_SC_ITM_ESS</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_WSCP</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WDA_I_WSCP_ADMIN</td>
<td></td>
</tr>
<tr>
<td>/SRMERP/WF_TRACE</td>
<td></td>
</tr>
</tbody>
</table>

**Business Value**

The SAP ERP shopping cart was an own business object, which was very similar to the Purchase Requisition business object. Following the S/4HANA simplification strategy, SAP moved the SAP ERP shopping cart functionality into the S/4HANA Purchase Requisition. So in S/4HANA only one business object for all procurement demands exist.

**Required and Recommended Action(s)**
Be aware that the Shopping Carts created in SAP ERP will not be available in S/4 HANA anymore. You can't call the corresponding transactions and webdynpro applications because they were deprecated.

**Other Terms**

SAP ERP conversion, S/4 simplification, MM

**37.17S4TWL - Internet Application Components (IAC)**

Application Components: MM-PUR-GF

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267441</td>
<td>S4TWL - Internet Application Components (IAC)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

As of SAP S/4HANA the Materials Management (MM) Internet Application Components (IAC) is not available in SAP S/4HANA, on-premise edition 1511.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>MEW0</th>
<th>Procurement Transaction</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MEW1</td>
<td>Create Requirement Request</td>
</tr>
<tr>
<td></td>
<td>MEW2</td>
<td>Status Display: Requirement Requests</td>
</tr>
<tr>
<td></td>
<td>MEW3</td>
<td>Collective Release of Purchase Reqs.</td>
</tr>
<tr>
<td></td>
<td>MEW5</td>
<td>Collective Release of Purchase Order</td>
</tr>
<tr>
<td></td>
<td>MEW6</td>
<td>Assign Purchase Orders WEB</td>
</tr>
<tr>
<td></td>
<td>MEWP</td>
<td>Web based PO</td>
</tr>
</tbody>
</table>
Required and Recommended Action(s)

None

Related SAP Notes

| Custom Code related information | SAP Note: 2228250 |

37.18S4TWL - MDM Catalog

Application Components: MM-PUR-SSP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271184</td>
<td>S4TWL - MDM Catalog</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The SAP SRM MDM catalog is no more available in S/4HANA. He is replaced by the catalog search function as part of S/4HANA Self Service Procurement. In the first release of SAP S/4HANA, on-premise edition a limited functional scope might be available compared to the SAP SRM MDM catalog. An available SAP SRM MDM catalog instance can still be integrated with S/4HANA as a punch-out catalog via OCI.

Business Process related information

S/4HANA Self Service Procurement must be used instead of the SAP SRM MDM catalog, the content of which needs to be imported into S/4HANA via OCI5 (http://scn.sap.com/docs/DOC-35441).

Catalog content will be managed as part of S/4HANA Self Service Procurement.

Business Value
Customers who are looking for a Catalog solution should take Ariba APC which is a comprehensive e-catalog solution.

**Required and Recommended Action(s)**

None

### 37.19S4TWL - Pricing Data Model Simplification

**Application Components:** SD-BF-PR, SD-MD-CM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267442</td>
<td>S4TWL - Pricing Data Model Simplification</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Description**

See the information provided in the Sales & Distribution area in simplification item "Data Model Changes in SD Pricing".

[https://launchpad.support.sap.com/#/notes/2267442](https://launchpad.support.sap.com/#/notes/2267442)

On a basic level, this information is also relevant for the pricing in procurement.

**Business Process-Related information**

See simplification item Data Model Changes in SD Pricing.

**Required and Recommended Action(s)**

See simplification item Data Model Changes in SD Pricing.

**Related SAP Notes**
General information
Carefully follow the instructions in SAP Notes 2188695, 2189301, and 2220005.

Conversion pre-checks
SAP Note: Pre-checks delivered with Note 2188735.

Custom code-related information
SAP Note: 2220005

### 37.20S4TWL - Output Management Adoption in Purchase Order

**Application Components:** MM-PUR-PO

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267444</td>
<td>S4TWL - Output Management Adoption in Purchase Order</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

Additionally to the existing output management based on NAST a new Output Management solution is adopted S/4 HANA-wide. Thereby a unified solution can be used for all Output Management activities. The existing Output Management solution however still can be activated.

**Description**

With SAP S/4HANA a new Output Management approach is in place. By design, the new output management includes cloud qualities such as extensibility enablement, multi tenancy enablement and modification free configuration. Therefore, the complete configuration differs from the configuration that is used when output management is based on NAST. The configuration is based on BRF+ which is accessible for Customers.

In SAP S/4HANA, the target architecture is based on Adobe Document Server and Adobe Forms only. For the form determination rules (along with other output parameters) BRF+ functionality is used (in this sense in combination with the message determination).

Nevertheless Output management based on NAST is still supported for new documents in purchase order. Purchase orders which are migrated from legacy systems and for which
NAST based output has been determined, can be processed with the new and with NAST technology. The user can decide whether he wants to use for all new purchase orders the new output management or NAST. Therefore in Procurement for purchase order there is a need to adapt the configuration settings related to Output Management.

In purchase order it is recommended to use Adobe Forms but due to compatibility the form technologies known from Business Suite (like SmartForms, SapScript) are supported as well. This is also true for the print reports.

In Purchase order processing it is recommended to use Adobe Forms but due to compatibility the form technologies known from Business Suite (like SmartForms, SapScript) are supported as well. This is also true for the print reports.

In contrast to the output management based on NAST the new output management supports only the Channels PRINT, EMAIL, XML (for Ariba Network Integration) and IDOC (for on premise). Other channels are not supported by default.

Additional information to the new output management in SAP S4/HANA can be found in the general simplification item related to Output Management (Cross Topic Area)

Up to release OP1709 you can find more information about how to activate the NAST-based Output Management in the SAP Customizing Implementation Guide under Materials Management -> Purchasing -> Purchase Order -> Activate or Deactivate SAP S/4HANA-Based Output Management.

As of release OP1809 you can find this customizing setting under Cross-Application components -> Output Control -> Manage Activation of Object Type. The NAST based output management is now the default solution, but a system upgrade will not change the previous selected output management.

**Business Process related information**

Output Management for Purchase Order has to be configured. In cases where there is not customer specific configuration for the new output management for purchase orders, it will not be possible to print purchase orders or to send purchase orders via e-mail or XML.

**37.21S4TWL - CI Include Conflicts in Table MMPUR_ANA_E**

Application Components: MM-PUR

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3326565</td>
<td>Upgrade issue in MMPUR_ANA_EKET table from OP2022: CI Include merged into EEW for EKKO &amp;EKPO</td>
</tr>
</tbody>
</table>

**Symptom**

Activation issue with duplicate fields in analytical table MMPUR_ANA_EKET while upgrade to S/4HANA 2022

**Reason and Prerequisites**

Technically until S/4HANA 2022, the CI includes of DB tables EKKO & EKPO were not included in respective extension includes EKKO_INCL_EEW_PS & EKPO_INCL_EEW_PS. Since release S/4HANA 2022, CI include got merged into respective extension includes.

Analytical table (MMPUR_ANA_EKET) is a denormalised table with EKKO,EKPO and EKET data and it also contains the extension includes of EKKO & EKPO.

SAP proposes to use unique field names across CI Includes of EKKO & EKPO (see also note 2899836 and 3101906). If you do not follow this proposal from S/4HANA 2022 onwards there will be an error during upgrade on the analytical table (due to field name conflict).

**Solution**

The solution for this is to implement the attached correction in source release before upgrading to S/4HANA 2022. There are two new specific extension structures & one report delivered as part of this note. Once the note is implemented report MMPUR_ANA_GEN_EEW_FIELDS has to be executed and verified whether the custom fields of includes EKKO_INCL_EEW_PS & EKPO_INCL_EEW_PS are appended to EKKO_INCL_EEW_PS_ANA & EKPO_INCL_EEW_PS_ANA respectively. The new specific extension structures EKKO_INCL_EEW_PS_ANA & EKPO_INCL_EEW_PS_ANA will only contain custom fields from extension includes EKKO_INCL_EEW_PS & EKPO_INCL_EEW_PS, but not from CI includes CI_EKKODB & CI_EKPODB.

If custom fields from CI_EKKODB & CI_EKPODB are also required to be included in table MMPUR_ANA_EKET, these need be added manually via append mechanism.

Once the new structures with custom fields are ready in source release, the upgrade can happen where old extension includes EKKO_INCL_EEW_PS & EKPO_INCL_EEW_PS
in table MMPUR_ANA_EKET are replaced with new includes EKKO_INCL_EEW_PS_ANA & EKPO_INCL_EEW_PS_ANA.

Other Terms

MMPUR_ANA_EKET, CI_EKKODB, CI_EKPODB, phase ACT_UPG
38. Sales & Distribution

38.1 S4TWL - Business Role Internal Sales Representative

Application Components: SD-SLS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271150</td>
<td>S4TWL - Business Role Internal Sales Representative</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

Solution

Description

The Internal Sales Representative (ISR) business role was originally built to support sales representatives who work in close coordination with customers, as well as logistical and financial departments collaborating with sales. This role became available with SAP ERP 6.0 EhP2 and was enhanced in SAP ERP EhP3 and SAP ERP EhP4. Two options to run this role existed, accessible through either the SAP Portal or by using the Business Client (as part of SAP NetWeaver).

The related functionality is assigned to these Business Functions:

LOG_SD_SIMP_02 (EhP4)
LOG_SD_CI_01 (EhP3)
SD_01 (EhP2)

In SAP S/4HANA, the Internal Sales Representative (ISR) business role is not available. This also includes the POWLs (Personal Object Work Lists).

Instead, a set of new FIORI roles, such as SAP_BR_INTERNAL_SALES_REP, are offered as successors. In the first S/4HANA release these roles offer a basic set of transactions that are typically needed for the day-to-day work of a sales representative. During the subsequent releases, these roles are enhanced with further suitable FIORI apps. For more information about this new concept, see SAP Note 2223838.

Business Process related information

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>VPW1</th>
<th>Change View “Tasks”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VPWL</td>
<td>Change View &quot;Maintain Portal Targets&quot;</td>
</tr>
</tbody>
</table>

### Required and Recommended Action(s)

Adaption to the new FIORI role concept

### How to Determine Relevancy

This Transition Worklist Item is relevant if the customer has activated one of the following Business Functions:
- LOG_SD_SIMP_02
- LOG_SD_CI_01
- SD_01

### 38.2 S4TWL - Webshops by Internet Sales or Web Channel Experience Management

Application Components: WEC-APP-SLS-ERP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271161</td>
<td>S4TWL - Webshops by Internet Sales or Web Channel Experience Management</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

### Solution

**Description**

Web shops resp. e-commerce solutions based on SAP Internet Sales (component CRM-ISA), SAP E-Commerce (component CRM-ISE), SAP Web Channel (component CRM-MD-PCT) or SAP Web Channel Experience Management (component WEC) are not available in SAP S/4HANA. From a technical point of view, these components require TREX and IPC. Both components, however, are not available in SAP S/4HANA.
strategic point of view, the required web shop functionality based on the SAP S/4HANA backend is provided by SAP hybris e-commerce in SAP S/4HANA 1610 OP.

**Business Process-Related Information**

Customers that use web shops resp. e-commerce solutions based on the components mentioned above and are planning to move to SAP S/4HANA shall use the SAP hybris e-commerce solution instead (available with S/4HANA 1610 OP).

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>Transactions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>• ISA_CAT_REPLICATION Replication of product catalogs to TREX</td>
</tr>
<tr>
<td></td>
<td>• ISA_CAT_REPL_DELETE ISA: Deletion of indices created by product catalog replication</td>
</tr>
<tr>
<td></td>
<td>Also the following customizing t-code are not available:</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000537</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000608</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000609</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000612</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000660</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000669</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000670</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000679</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000680</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000691</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000692</td>
</tr>
<tr>
<td></td>
<td>• S_EB5_05000762</td>
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<td>• S_EBJ_98000052</td>
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<td>• S_EBJ_98000078</td>
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<td>• S_EBS_44000427</td>
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<td></td>
<td>• S_EBS_44000505</td>
</tr>
<tr>
<td></td>
<td>• S_EBS_44000536</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**
None

**How to Determine Relevancy**

This Transition Worklist Item is relevant if the customer is using a web shop or an e-commerce solution based on one of the components mentioned above.

### 38.3 S4TWL - Sales Activities

Application Components: SD-CAS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267375</td>
<td>S4TWL - Sales Activities</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Description**

Sales Support: Computer-Aided Selling (SD-CAS) - (see SAP Help [LINK](#)) is not available in SAP S/4HANA, because it is not the target architecture. We recommended that you use SAP CRM on-premise (side-by-side with SAP S/4HANA) or SAP Cloud for Customer.

**Business Process-Related Information**

Sales Support is no longer available in SAP S/4HANA. The creation of new business documents or editing of migrated business documents is not possible.

Transactions not supported in SAP S/4HANA:

- OV/8 Test Data - Transfer Data - Cond.
- OV/9 Display Test Data
- OVCB Structure of Reporting View
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVCC</td>
<td>Assign View to User</td>
</tr>
<tr>
<td>OVCD</td>
<td>Definition of Reporting View</td>
</tr>
<tr>
<td>OVCE</td>
<td>Control Update of Perform.Measures</td>
</tr>
<tr>
<td>OVCF</td>
<td>Control Reporting - Info Blocks</td>
</tr>
<tr>
<td>OVCI</td>
<td>C SD Set Workflow Action box</td>
</tr>
<tr>
<td>OVL5</td>
<td>Maintain Transit Time</td>
</tr>
<tr>
<td>SDCAS_MCQ</td>
<td>Call MC/Q From Address Selection</td>
</tr>
<tr>
<td>V+01</td>
<td>Create Sales Call</td>
</tr>
<tr>
<td>V+02</td>
<td>Create Telephone Call</td>
</tr>
<tr>
<td>V+03</td>
<td>Create Sales Letter</td>
</tr>
<tr>
<td>V+11</td>
<td>Create Direct Mailing</td>
</tr>
<tr>
<td>V+21</td>
<td>Create Sales Prospect</td>
</tr>
<tr>
<td>V+22</td>
<td>Create Competitor</td>
</tr>
<tr>
<td>V+23</td>
<td>Create Business Partner</td>
</tr>
<tr>
<td>VC_2</td>
<td>Customer Fact Sheet PDF Version</td>
</tr>
<tr>
<td>VC/1</td>
<td>List of Customers (as of Release 1610)</td>
</tr>
<tr>
<td>VC/2</td>
<td>Customer Master Data Sheet (as of Release 1610) - Use Fiori App &quot;Customer 360 Object Page&quot; instead.</td>
</tr>
<tr>
<td>VC/A</td>
<td>Sales Activity Description 01</td>
</tr>
<tr>
<td>VC/B</td>
<td>Sales Activity Description 02</td>
</tr>
<tr>
<td>VC/C</td>
<td>Sales Activity Description 03</td>
</tr>
<tr>
<td>VC/D</td>
<td>Sales Activity Description 04</td>
</tr>
<tr>
<td>VC/E</td>
<td>Sales Activity Description 05</td>
</tr>
</tbody>
</table>
VC/F  Sales Activity Description 06
VC/G  Sales Activity Description 07
VC/H  Sales Activity Description 08
VC/I  Sales Activity Description 09
VC/J  Sales Activity Description 10
VC01  Create Sales Activity
VC010102  Only Follow-up Activities
VC010103  Do not Delete Mail. Camp.+Addresses
VC010104  Internet mailing
VC01N  Edit Sales Activity
VC01N_DRAG_KONTAKT  Edit Sales Activity
VC01N_DRAG_MAILING  Edit Sales Activity
VC01N_M  Edit Mailing
VC02  Change Sales Activity
VC03  Display Sales Activity
VC05  Sales support monitor
VC06  Parallel Processing for Address List
VC10  Report Tree - Select Addresses
VC10_BMENU  Area Menu for VC10
VC15  Crossmatching
VCR1  Competitive products
VCU3  Display Incompletion Log
VIM6  Customer Exits: Data Selection
VN05  No.Assignment for Address List(SSup)
VN06  Create No.Interval-Sales Activities
VOC1  Customizing for List of Addresses
VUC2  Maintain Incompletion Log
VV51  Create Output for Sales Activity
VV52  Change Output: Sales Activity
VV53  Display Output: Sales Activity
VVCB  Maintain Activity Authorization

**Required and Recommended Action(s)**

If sales support functionality is requested, we recommend that customers start evaluating a side-by-side CRM on-premise scenario, or that they use Cloud for Customer.

**Related SAP Notes**

| Custom code-related information | SAP Note: 2214585 |

**38.4 S4TWL - Billing Document Output Management**

Application Components:SD-BIL

**Symptom**

In SAP S/4HANA, a new output management approach has been implemented, but the old NAST technique is set as default.

**Reason and Prerequisites**
This note is relevant for you if your start release for the system conversion is an SAP ERP release. It is also relevant if your start release is SAP S/4HANA and you do not require "special" output channels.

The new output management for SAP S/4HANA, called SAP S/4HANA output control, only supports the "pure" output channels, while the NAST-based output can also be used for several kinds of post-processing. SAP S/4HANA output control cannot be used if one of the following NAST transmission mediums is required:

- 8 Special function
- 9 Events (SAP Business Workflow)
- A Distribution (ALE)
- T Tasks (SAP Business Workflow)

In this case, please use NAST-based output management. If you don't need these kinds of "special" output channels, you can use the new SAP S/4HANA output control.

**Solution**

As there are valid requirements and use cases for both frameworks, there is a new customizing activity "Manage Application Object Type Activation" where the active framework can be maintained.

You can find the Customizing under output control:

Transaction SPRO

SAP Reference IMG -> Cross-Application Components -> Output Control -> Manage Application Object Type Activation

Choose "Application Active" if you want to switch to new output management for SAP S/4HANA, which is called SAP S/4HANA output control.

**Other Terms**

Billing Document Output Management, SAP S/4HANA output control

**38.5 S4TWL - SD Rebate Processing replaced by Settlement Management**

Application Components: SD-BIL-RB

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267377</td>
<td>S4TWL - SD Rebate Processing Replaced by Settlement Management</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

Solution

Business Value

The Settlement Management Solution provides a single point of entry to maintain and to administrate contract-related conditions. Condition contract settlement allows to set up different rebate scenarios and settlement processes to fulfill your business requirements by customization. Flexible data sources, business selection criteria, settlement calendar and further features allow a streamlined contract entry and contract processing. Condition Contract Management offers an overview of actual business volume even for retroactively contracts and a rich functionality to control open settlements, business volume and accruals.

Description

In general, SD Rebate Processing is not available within SAP S/4HANA. The functional equivalent of SD Rebate Processing in SAP S/4HANA is Settlement Management.

However, there is one exception: CRM TPM customers can still use SD Rebate Processing for their business process, but have to adapt to an SAP S/4HANA-optimized solution (cp. simplification item Optimization of SD Rebate Processing for TPM Customers, note 2267344).

Business Process-Related Information

In SAP S/4HANA, Settlement Management replaces SD Rebate Processing, which means that existing rebate agreements can only be processed up until the end of the validity date of the agreement and must then be closed by a final settlement. New agreements can only be created based on condition contracts. Therefore, the corresponding transaction codes VBO1 resp. VB(D for the creation of rebate agreements is not available anymore.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>VBO1</th>
<th>Create Rebate Agreement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>VB(D)</td>
<td>Extend Rebate Agreements</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)

See the attached documents for more detailed information.
Some countries like countries in Latin America require localization. For example Latin American authorities require invoicing with pre-assigned number through transaction IDCP. This functionality is not available as of now for settlement management documents. Please verify if settlement management solution fulfills the local requirements in the your specific countries and reach out to the SAP localization team in case you have questions.

**How to Determine Relevancy**

Use SE16 to check table KONA: If table KONA contains records with ABTYP = ‘A’ then SD Rebate Processing is used.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom code-related information</th>
<th>SAP Note: 2226380</th>
</tr>
</thead>
</table>

**38.6 S4TWL - Miscellaneous minor functionalities in SD Area**

Application Components: SD-SLS-GF, SD-BIL, SD-MD-CM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267395</td>
<td>S4TWL - Miscellaneous Minor Functionalities in SD Area</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Description**

In a lot of cases, SAP ERP contains several versions of the same or similar functionality, for example, SAPGUI transactions or BAPI function modules. Older versions are marked as deprecated or obsolete, but are still available for compatibility reasons.

In SAP S/4HANA, only the most recent and most comprehensive version is available for many of these objects. Deprecated versions have been disabled. In the SD area, a couple of deprecated BAPI function modules and SAPGUI transactions have been disabled. SAP
Note 2228098 contains a list of objects not available in SAP S/4HANA and, if available, the respective successor object.

**Business Process-Related Information**

No impact on business processes expected.

**Required and Recommended Action(s)**

None

**How to Determine Relevancy**

This Transition Worklist Item is relevant if the custom code check shows results that refer to note 2228098, or if the customer directly uses any of the transactions or programs listed in note 2228098 as deprecated objects.

**38.7 S4TWL - SD Complaint Handling**

Application Components: SD-BIL-IV-CP

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267398</td>
<td>S4TWL - Industry-Specific SD Complaint Handling</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Description**

The industry-specific SD complaints handling in ERP is not available within SAP S/4HANA. The functional equivalent to be used is the standard SD complaints handling (Transaction CMP_PROCESSING).

**Business Process-Related Information**
The industry-specific SD complaints handling is related to business function LOG_SD_EACOMPLAINTS. Customers that have this business function active in SAP Business Suite start system can convert to SAP S/4HANA. However, independently of the activation status of the business function LOG_SD_EACOMPLAINTS, the corresponding functionality is not available in SAP S/4HANA. Customers that do not have the business function LOG_SD_EACOMPLAINTS active in the SAP Business Suite start release are not able to activate the business function after the conversion to SAP S/4HANA. This business function is defined as “obsolete” in SAP S/4HANA.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>WCMP_PROCESSING Complaints Processing Mass Complaints Processing – Customer Number</th>
<th>WCMPRESULT Results Display for Mass Complaints Processing</th>
</tr>
</thead>
<tbody>
<tr>
<td>BAdI not available in SAP S/4HANA</td>
<td>BADI_CMP_PROCESSING Add-In for Complaints Processing</td>
<td></td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

None

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom code-related information</th>
<th>SAP Note 2239184</th>
</tr>
</thead>
</table>

**38.8 S4TWL - SD Simplified Data Models**

Application Components: SD-BF-MIG, SD-BF

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267306</td>
<td>S4TWL - SD Simplified Data Models</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Business Value**
Data model simplifications in Sales and Distribution (SD) offer the following benefits:

- Reduced memory footprint through
  - elimination of index tables
  - elimination of status tables
  - simplified document flow
  - fewer aggregate tables
- Increased performance due to the integration of status tables into document tables.
- Field length extension of SD document category allows for functional scope enhancements
  with new code values for SD document category.

**Description**

The following data model simplifications have been implemented for the SD area:

- Elimination of status tables VBUK, VBUP: Status fields have been moved to the corresponding header and item tables - VBAK and VBAP for sales documents, LIKP and LIPS for deliveries, VBRK for billing documents.
  This leads to increased performance, e.g.:
  - Selection of document header data and document header status requires one SELECT statement (VBAK) instead of two SELECT statements (VBAK and VBUK). Similar for the item tables.
  - Views containing document header data and document header status can be built without JOIN condition.
- Simplification of document flow table VBFA
- Field length extension of SD document category:
  - Data element VBTYP (Char1) has been replaced by data element VBTYPL (Char4);
  - Field VBTYP_EXT (Char4) has been eliminated
- Elimination of redundancies – Document index tables VAKPA, VAPMA, VLKPA, VLPMA, VRKPA, VRPMA
- Elimination of redundancies
  - Rebate index table VBOX: See simplification item "SD Rebate Processing replaced by Settlement Management", SAP Note [2267377](https://support.sap.com/2267377).
  - LIS tables S066, S067: See simplification item "Credit Management", SAP Note [2270544](https://support.sap.com/2270544).

The changes are described in more detail in the guidelines attached to the related SAP Note 2198647.

**Business Process-Related Information**

No effects on business processes are expected.
Required and Recommended Action(s)

1. Adapt customer code according to the custom code check results, see SAP Note 2198647 for a detailed description.

2. If you have added one or more append structures to database tables VBUK or VBUP (document status header and item table) in the source release to store additional data for documents that are persistent in tables VBAK/VBAP, LIKP/LIPS, or VBRK, and these fields are to be used in SAP S/4HANA, you must ensure that the appended fields are added to the respective document tables.

An append field to the document header status table VBUK must be added to one or several of the document header tables VBAK, LIKP, or VBRK. This decision depends on which of the document types the respective field is relevant for. An append field to document item status table VBUP must be added to one or more of the document item tables VBAP or LIPS. Again, the choice depends on which of the document types the respective field is relevant for.

Each append field must have the same name and the same data type as it does in the source table, and each one has to be appended to the table-specific status include structure (DDIC structures VBAK_STATUS, LIKP_STATUS, VBRK_STATUS, VBAP_STATUS or LIPS_STATUS). Only then will the field be considered by the automatic data conversion from VBUK to VBAK/LIKP/VBRK and from VBUP to VBAP/LIPS, as well as by read function modules that can be used to replace direct SELECTs to the deprecated status tables VBUK/VBUP.

Do not choose a different field name or data type. Do not append the field directly to the document table. It is possible to have several append structures for one status include structure.

When and where do you have to add the append fields to the status include structures in order to have the data transferred automatically during the SAP S/4HANA system conversion?

In the development system, you have to add the fields during phase ACT_UPG, when you are prompted for SPDD. In all other systems, you may use modification adjustment transports or customer transport integration during the upgrade-like conversion. The append fields must be contained in one of the custom transport requests from the development system.

Until target release S/4HANA 1610: The conversion pre-check class CLS4H_CHECKS_SD_DATA_MODEL delivered via SAP Note 2224436 provides a check for such append fields and issues a warning if such append fields are recognized in the source release. The warning refers to the necessary action to add the append fields to the status include structures.
As of target release S/4HANA 1709: The check for append fields is integrated into the upgrade tools (SUM). The check is executed automatically as part of phase ACT_UPG. If append fields to VBUK or VBUP are found SUM prompts a confirmation whether adjustments have been done and whether the upgrade/conversion can be continued. The check only finds append fields if they belong to the namespaces Z* or Y*.

Append fields of a namespace /*/, e.g. /ABC/, do not lead to a confirmation prompt as the upgrade tools cannot safely distinguish the different owner types of /*/ namespaces (customers or partners or SAP-managed components).

The check is also not executed if there is already a SPDD transport integrated into the conversion procedure. (See above, "When and where do you have to add the append fields to the status include structures...?")

**How to Determine Relevancy**

This Transition Worklist Item is relevant if the custom code check shows results that refer to note 2198647.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Conversion pre-checks</th>
<th>SAP Note 2224436</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom code-related information</td>
<td>Customer code has to be adapted according to the cookbooks in SAP Note 2198647.</td>
</tr>
</tbody>
</table>

**38.9 S4TWL - VBFA - Indirect Docflow Relationships**

Application Components: SD-BF-MIG

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2469315</td>
<td>S4TWL - VBFA - Indirect Docflow Relationships</td>
</tr>
</tbody>
</table>

**Symptom**

You have performed a system conversion to SAP S/4HANA, on-premise edition, with one of the following target releases:

1511 SP00/SP01/SP02/SP03
1610 SP00/SP01

Or you have a new installation on S/4HANA where the start release is or was one of the following releases:
The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

In the Simplifications for S/4HANA, the field STUFE had been removed from the database table VBFA (SD Document Flow).

Compare note 2267306.

In the initial releases of S/4HANA:
- only direct relationships are stored in VBFA
- indirect relationships are not stored in VBFA

Indirect relationships are deleted in the S/4HANA conversion

The field STUFE is introduced again and indirect relationships are stored again in table VBFA as of the following releases and SP levels:
- 1709 (SP00)
- 1610 SP02 = FPS2 (feature pack stack 2)
- 1511 SP04

Via correction instructions of note 2418242 in 1610 SP00/SP01
Via correction instructions of note 2418242 in 1511 SP00/SP01/SP02/SP03

A reconstruction of missing docflow entries is necessary in the following cases:

- System conversion from SAP ERP to 1610 SP00/SP01 or
- System conversion from SAP ERP to 1511 SP00/SP01/SP02/SP03
- New installation on 1610 SP00/SP01/SP02 or
- New installation on 1511 SP00/SP01/SP02/SP03/SP04

For details about the reconstruction, see note 2418242.

**Solution**

**Business Value**

The change has the following benefits:
- Performance improvement compared with the initial delivery of S/4HANA 1511
- No further restrictions with respect to archiving of SD documents

**Description**

The table VBFA and its content changes incompatibly.

**Business Process related information**
No changes to business processes

**Required and Recommended Action(s)**

Custom Code where data is retrieved directly from table VBFA must be checked and in some cases must be adapted. Please check note 2470721 for details.

**How to Determine Relevancy**

The Simplification Item is likely relevant if you are using S/4HANA Sales and the underlying SD document flow.

You have to check for custom code adaptation if your custom coding selects directly from VBFA (see note 2470721).

You have to execute a reconstruction report for VBFA if your system history is:

You have performed a system conversion to SAP S/4HANA, on-premise edition, with one of the following target releases:
1511 SP00/SP01/SP02/SP03
1610 SP00/SP01

Or you have a new installation on S/4HANA where the start release is or was one of the following releases:
1511 SP00/SP01/SP02/SP03/SP04
1610 SP00/SP01/SP02

See note 2418242 for more information on the reconstruction report.

**38.10S4TWL - Data Model Changes in SD Pricing**

Application Components: SD-BF-PR, SD-MD-CM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267308</td>
<td>S4TWL - Data Model Changes in SD Pricing</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

Solution

Business Value

Data model simplifications in Sales and Distribution (SD) pricing offer the following benefits:

- Since it is no longer a cluster table, the pricing result can now be directly accessed for analytical purposes.
- Enhanced field lengths for several fields allow for more flexibility in pricing and condition technique.
  - Customer and document pricing procedure extensions allow for more flexible pricing procedure determination.
  - The number of possible customer condition tables for pricing has been roughly doubled.
  - The number of possible accesses in an access sequence has been enhanced from 99 to 999.
  - The key of condition tables ('A-Tables') can now be 255 characters long (previously 100).
- The removal of redundant fields from condition header table:
  - reduces the memory footprint of condition records
  - prevents additional conversions and, therefore, downtime if field lengths from pricing field catalogue entries need extension

Description

- Business documents within the SAP Business Suite, such as the sales order and the purchase order, are used to store the pricing result in database table KONV. In SAP S/4HANA, table KONV has been replaced in its data persistency role by the new table PRCD_ELEMENTS. However, KONV is and can still be used for data declaration purposes. It still defines the structure of the pricing result within the application code. The content of KONV is transferred to PRCD_ELEMENTS by the automatic data migration when moving to SAP S/4HANA.
- The following DDIC changes and interface changes have been made to the condition technique:
  - DDIC changes:
    - The concatenated variable key field VAKEY of a condition table has been removed from all condition header tables, including KONH (pricing), NACH (output determination), KOND3 (campaign determination), KONDN (free goods determination), KONHM (portfolio determination), J_3GPRLHD (CEM price list determination), and WIND (document index). The concatenated
variable data field VADAT has also been removed. This was done to avoid data migration of these tables as a result of the material number extension.

- For internal processing, long data elements VAKEY_LONG and VADAT_KO_LONG with length CHAR255 have been introduced.
- The content of the new long VAKEY and VADAT can be determined at runtime using methods of the service class CL_CONDITION_VAKEY_SRV.

- Data element QUDIW (special value source in access sequence) has been extended from CHAR20 to CHAR50. Data element SKOND_TAB (CHAR128, for archiving SD conditions) has been replaced by SDKONT_TAB_LONG (CHAR512). Data element KOND_DATA (used for general condition determination) has been extended from CHAR255 to CHAR512.

  o Interface changes:
    - Batch input of price condition records (program RV14BTCI):
      - For compatibility reasons, the field VAKEY_LONG (CHAR255) has been added to the batch input structures. If this field is filled or used by external programs, the content of this field is used instead of the content of the still existing field VAKEY.
    - IDOC COND_A for price condition records:
      - For compatibility reasons, the fields MATNR_LONG (CHAR40), UPMAT_LONG (CHAR40), BOMAT_LONG (CHAR40), and VAKEY_255 and VADAT_255 have been added to the COND_A IDOC segments. If these fields for the extended material number or long VAKEY/VADAT are to be filled in addition to the still existing short fields, the content of the long fields has priority.

- Several data elements have been extended, especially the key field ZAEHK in table KONV with the data element DZAEHK.
- The maximum number of possible accesses in an access sequence (DTEL KOLNR) has been increased from 99 to 999. Therefore, the solution described in SAP Pilot Note 1812828 (only relevant for customers for which this note was released) is no longer necessary nor valid. Any content from this solution will automatically be transferred to the standard tables during the conversion process to SAP S/4HANA.

<table>
<thead>
<tr>
<th>Data Element</th>
<th>Description</th>
<th>Former Length</th>
<th>New Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOLNR, EVSNR, FSELNR</td>
<td>Number of access in access sequence</td>
<td>NUMC2</td>
<td>NUMC3</td>
</tr>
</tbody>
</table>
Simplification List for SAP S/4HANA Cloud, private Edition 2023 – Initial Shipment

- In addition, the following elements in KONV have also been changed:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
<th>Type of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>KOLNR3</td>
<td>Access Sequence - Access Number</td>
<td>Field is obsolete. Possible field content will be merged with content of KOLNR and moved to PRCD_ELEMENTS</td>
</tr>
<tr>
<td>STUFE</td>
<td>Level (in multi-level BOM explosions)</td>
<td>Field is obsolete and will not be transferred to PRCD_ELEMENTS</td>
</tr>
<tr>
<td>WEGXX</td>
<td>Path (for multi-level BOM explosions)</td>
<td>Field is obsolete and will not be transferred to PRCD_ELEMENTS</td>
</tr>
</tbody>
</table>

Business Process-Related Information

No impact on business processes is expected.

Required and Recommended Action(s)

- Carefully follow the instructions in SAP Notes 2188695, 2189301, and 2220005.
- If you have added one or more append structures to database table KONV in the source release to store additional data, and these fields are to be used in SAP S/4HANA, you must ensure that the appended fields are also added to the new structure PRCS_ELEMENTS_DATA, which is included in all necessary tables and structures, such as database tables PRCD_ELEMENTS and PRCD_ELEM_DRAFT, for example.
- Each append field must have the same name and the same data type as it does in the source table.
- When and where do you have to add the append fields to the structure PRCS_ELEMENTS_DATA?
  - In the development system, you have to add the fields to PRCS_ELEMENTS_DATA during phase ACT_UPG, when you are prompted for SPDD.
  - This is necessary to ensure that the automatic data migration transfers the
field content from KONV to PRCD_ELEMENTS during the upgrade-like conversion.

- In all other systems, you may use modification adjustment transports or customer transport integration during the upgrade-like conversion for the appends to structure PRCS_ELEMENTS_DATA. The append fields must be contained in one of the custom transport requests from the development system.

**Check for append fields:**

- Until target release S/4HANA 1610: The conversion pre-check delivered via SAP Note 2188735 provides a check for such append fields and issues a warning if these append fields are recognized in the source release. The warning refers to the necessary action to add the append fields to the new database tables. An overview over the pre-checks is provided in SAP Note 2313318.

- As of target release S/4HANA 1709: The check for append fields is integrated into the upgrade tools (SUM). The check is executed automatically as part of phase ACT_UPG. If append fields to KONV are found SUM prompts a confirmation whether adjustments have been done and whether the upgrade/conversion can be continued. The check only finds append fields if they belong to the namespaces Z* or Y*.
  
  Append fields of a namespace /*/, e.g. /ABC/, do not lead to a confirmation prompt as the upgrade tools cannot safely distinguish the different owner types of /*/ namespaces (customers or partners or SAP-managed components).
  
  The check is also not executed if there is already a SPDD transport integrated into the conversion procedure. (See above, "When and where do you have to add the append fields to the structure PRCS_ELEMENTS_DATA?")

- In the development system, you have to make all necessary adjustments in your code to deal with the changed data model. See SAP Note 2220005 for more information. You need to do this before going productive again.

- SAP provides an automated migration to migrate data from the old database table KONV to the new database table PRCD_ELEMENTS. However, the document currency field WAERK of table PRCD_ELEMENTS needs to be filled with the currency of the related document header. To reduce downtime, it was decided to move this step to the post-processing phase. Within the automatic migration, the currency is filled with the technical currency '2', allowing the system to correctly convert PRCD_ELEMENT to KONV format and vice versa. However, to fill the currency consistently in accordance with the related document, SAP recommends that you run the post-processing report PRC_MIG_POST_PROCESSING as soon as possible. After a recommended test, this report is supposed to run on the productive data. However, note that running the report is not mandatory before going productive again. Its execution can be postponed to a later point in time.
### Related SAP Notes

<table>
<thead>
<tr>
<th>General information</th>
<th>Carefully follow the instructions in SAP Notes 2188695, 2189301, 2313318, and 2220005</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conversion pre-checks</td>
<td>SAP Note: Pre-checks delivered with Note 2188735</td>
</tr>
<tr>
<td>Custom code-related information</td>
<td>SAP Note: 2220005</td>
</tr>
</tbody>
</table>

### 38.11S4TWL - Foreign Trade

Application Components: SD-FT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267310</td>
<td>S4TWL - Foreign Trade</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

### Solution

**Description**

There are currently two software services for international trade transactions: SAP ECC SD Foreign Trade (SD-FT) and SAP Global Trade Services (SAP GTS).

Foreign Trade (SD-FT) is part of the standard SAP ECC Sales and Distribution (SD) scope.

SAP GTS is an external service that can be installed on an additional instance.

In SAP S/4HANA, the Foreign Trade (SD-FT) functionality is not available anymore. Instead, SAP S/4HANA for international trade within SAP S/4HANA is the successor.

With SAP S/4HANA 1709, letter of credit processing is provided by integration of SAP S/4HANA Sales with Trade Finance.

For Intrastat, Legal Control and Classification with Commodity Codes customers can leverage SAP S/4HANA for international trade functions within SAP S/4HANA.

(Please note, that in the sales area Legal Control checks are currently only enabled for document types C - Sales Orders and G - Contract. For document type I - Free of Charge order and E - Scheduling Agreement this is planned to be available in one of the next releases.)
For Preference Management, you can use functions based on SAP GTS. SAP GTS can be natively integrated with SAP S/4HANA.

For shipped releases compare the Feature Scope Description for SAP S/4HANA under https://help.sap.com/s4hana -> Product Documentation -> Feature Scope Description


Additional functions for Import and Export Management are available with SAP GTS.

**Business Value**

A. Intrastat
   a. The selection reports for Intrastat are simplified.
   b. Authorization check on company code level.
   c. Multiple users can work at the same time.
   d. Larger number of supported countries.
   e. Better user experience in processing Intrastat declarations, for example, mass update of item data is possible.
   f. Classification of services with Intrastat service codes for Italy is available (with S/4HANA for international trade 1610).

B. Legal Control
   a. Verification of relevant documents, like purchase orders, sales orders and outbound deliveries to ensure a proper compliance processes.
   b. Complete overview by using a Trade Compliance Document, which can consider multiple legal regulations, like Legal Control, Embargo and Watch List Screening regulations.
   c. Monitoring of compliance relevant documents, across different laws and rules.
   d. Possibility to maintain blocks and to create customer specific rules to determine blacklisting, whitelisting and/or license types in a specific order.

C. Classification
   a. Optimized maintenance of the commodity code.
      i. Classify for multiple countries on cross-plant level.
      ii. Time Dependent classification.
      iii. One numbering scheme for multiple countries.
      v. Semi-automated upload of classification master data from external data providers.
vi.  Synchronization for the commodity codes between "SAP Global Trade Services" (SAP GTS) and "SAP S/4HANA for international trade" without any manual interaction.

b.  Classification for Customs Tariff numbers also available.

D.  Preference Management

a.  Preference Management can be used via SAP GTS. For the relevant license topics please contact your Account Executive.

E.  Treasury

a.  A complete solution for letter of credit processing through integration of Sales and Trade Finance of Treasury and Financial Risk Management in SAP S/4HANA.

All User interfaces are build based on Fiori design principles.

**Business Process-Related Information**

The customer needs to check whether third-party foreign trade systems are in use for foreign trade processes. Because of the replaced foreign trade functionality in SAP S/4HANA, it is possible that the third-party foreign trade system will need to be adjusted by the respective third-party solution/service provider. However, SAP GTS can be connected to SAP S/4HANA to run the respective foreign trade processes.

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<td>VIB9</td>
<td>Send IDoc Output - Error in Procg</td>
<td></td>
</tr>
<tr>
<td>VIB8</td>
<td>Send IDoc Output - Repeat Procg</td>
<td></td>
</tr>
<tr>
<td>VIB4</td>
<td>Print Transaction: Initial Procg</td>
<td></td>
</tr>
<tr>
<td>VIB6</td>
<td>Print Transaction: Error in Procg</td>
<td></td>
</tr>
<tr>
<td>VIB5</td>
<td>Print Transaction: Repeat Procg</td>
<td></td>
</tr>
<tr>
<td>VIB3</td>
<td>Foreign Trade Output Status</td>
<td></td>
</tr>
<tr>
<td>VEII</td>
<td>SAPMSED8: Call IMPINV01</td>
<td></td>
</tr>
<tr>
<td>VEIE</td>
<td>SAPMSED8: Call EXPINV02</td>
<td></td>
</tr>
<tr>
<td>VX00</td>
<td>Preference Handling</td>
<td></td>
</tr>
<tr>
<td>LEAN</td>
<td>Request long-term VendDecl. (vendor)</td>
<td></td>
</tr>
<tr>
<td>LEMA</td>
<td>Dun long-term vendor decl. (vendor)</td>
<td></td>
</tr>
<tr>
<td>VE67</td>
<td>Aggregate Vendor Declarations</td>
<td></td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>---------------------------------------------------------------</td>
<td></td>
</tr>
<tr>
<td>LEER</td>
<td>Create long-term VenDecl. (customer)</td>
<td></td>
</tr>
<tr>
<td>VE55</td>
<td>Preference Determination: Individual</td>
<td></td>
</tr>
<tr>
<td>VE54</td>
<td>Preference Determination: Collective</td>
<td></td>
</tr>
<tr>
<td>VEB5</td>
<td>Calculate Assemblies Individually</td>
<td></td>
</tr>
<tr>
<td>VEB6</td>
<td>Calculate Assemblies Collectively</td>
<td></td>
</tr>
<tr>
<td>VEPR</td>
<td>Customs log</td>
<td></td>
</tr>
<tr>
<td>VE91</td>
<td>Display Preference Values</td>
<td></td>
</tr>
<tr>
<td>VE90</td>
<td>Change preference values</td>
<td></td>
</tr>
<tr>
<td>VE83</td>
<td>Check Report: Preference Data</td>
<td></td>
</tr>
<tr>
<td>VE66</td>
<td>Preference Procedure</td>
<td></td>
</tr>
<tr>
<td>VE65</td>
<td>Preference Reg./Percentage Rates</td>
<td></td>
</tr>
<tr>
<td>VE64</td>
<td>Commodity Code/Customs Areas</td>
<td></td>
</tr>
<tr>
<td>VE94</td>
<td>Load Commodity Code for EU Countries</td>
<td></td>
</tr>
<tr>
<td>VEM4</td>
<td>Merge: EU - Commodity Code</td>
<td></td>
</tr>
<tr>
<td>VI94</td>
<td>Load Import Code Nos - EU Countries VIM4 - Import Code Number</td>
<td></td>
</tr>
<tr>
<td>VA94</td>
<td>Load Commodity Codes for Japan</td>
<td></td>
</tr>
<tr>
<td>VAM4</td>
<td>Merge: Japan - Commodity Code</td>
<td></td>
</tr>
<tr>
<td>VP94</td>
<td>Load Import Code No. for Japan</td>
<td></td>
</tr>
<tr>
<td>VPM4</td>
<td>Merge: Japan - Import Code Number</td>
<td></td>
</tr>
<tr>
<td>VEU4</td>
<td>Load Commodity Code-Other Countries</td>
<td></td>
</tr>
<tr>
<td>VEI4</td>
<td>Merge: Remaining Commodity Codes</td>
<td></td>
</tr>
<tr>
<td>VIU4</td>
<td>Load Import Code No.-Other Countries</td>
<td></td>
</tr>
<tr>
<td>VII4</td>
<td>Merge: Rest - Import Code Number</td>
<td></td>
</tr>
</tbody>
</table>
To guarantee sales order payments with Trade Finance, the following transactions are available for processing letters of credit, standby letters of credit, and bank guarantees:

- FTR_CREATE (Create Financial Transaction)
- FTR_EDIT (Edit Financial Transaction)
- FTR_RCD (Trade Finance: Risk Check Decision Management)
- FTR_CHK_CONSTCY (Data Consistency check with S/4HANA Sales)
- 

**Required and Recommended Action(s)**

- Analysis of all foreign trade processes that are currently in use.
- To migrate Legal Control data, check the documentation in KBA [2869019](#).
To migrate financial documents in Foreign Trade to Trade Finance, you carry out the migration steps available as Customizing activities (transaction SPRO, SAP Reference IMG) under:

- Conversion of Accounting to SAP S/4HANA --> Preparations and Migration of Customizing --> Preparations for Migration of Financial Documents to Trade Finance
- Conversion of Accounting to SAP S/4HANA --> Data Migration --> Migration of Financial Documents to Trade Finance and Complete Migration of Financial Documents to Trade Finance
- Conversion of Accounting to SAP S/4HANA --> Activities after Migration --> Manual Activities for Trade Finance

### Related SAP Notes

<table>
<thead>
<tr>
<th>Conversion pre-checks</th>
<th>SAP Note: 2205202</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom code-related information</td>
<td>SAP Note: 2223144</td>
</tr>
</tbody>
</table>

### 38.12S4TWL - Credit Management

Application Components: FI-AR-CR, SD-BF-CM

#### Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270544</td>
<td>S4TWL - Credit Management</td>
</tr>
</tbody>
</table>

#### Symptom

You are doing a system conversion to SAP S/4HANA and you are using Credit Management (FI-AR-CR) on SAP ERP. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

#### Solution

In the following we distinguish between the three possible constellations in your system:

A. You are only using FI-AR-CR Credit Management in your source release
B. You are only using SAP Credit Management (FIN-FSCM-CR) in your source release
C. You are using both Credit Management solutions (FI-AR-CR & FIN-FSCM-CR) in your source release
D. You are not using any of the Credit Management solutions (Then this note is not relevant for you)
(with the prefixes A, B, C, D we mark the explanations as relevant for these scenarios in the following chapters)

Description:

Credit Management (FI-AR-CR) is not available as part of SAP S/4HANA. The functional equivalent in SAP S/4HANA is SAP Credit Management (FIN-FSCM-CR).

- Risk category -> Risk class maintained for the whole business partner (not per customer & credit control area), as the probability of a credit default of your customer does depend on the characteristics of your customer and not your internal organizational structures.
- Maintenance of customer master data in business partner transaction
- The credit checks carried out for a customer depend on the assigned check rule in the business partner transaction. They do not depend on the risk class (formerly risk category).
- Releasing blocked documents via Case Management (documents the blocking reason)

How to Determine Relevancy:

A: Indicators for the usage of FI-AR-CR Credit Management are:

- You are using transaction FD31 or FD32 to maintain credit account master data (this data is stored in table KNKK & KNKA)
- You are using transactions VKM1-4 to process sales documents (e.g. releasing blocked sales orders)
- Function module UKM_IS_ACTIVE returns space for flag E_ACTIVE and E_ERP2005
- In general: You are using parts of the obsolete transactions and reports listed in chapter “Business Process related Information”.
- Exposure data is stored and updated continuously in database tables S066 and S067.

B: Indicators for the usage of SAP Credit Management (FIN-FSCM-CR) are:

- You are using transaction BP or UKM_BP to maintain credit account master data (this data is stored in table UKMBP_CMS_SGM & UKMBP_CMS)
- You are using transaction UKM_CASE to process sales documents (e.g. releasing blocked sales orders)
- Function module UKM_IS_ACTIVE returns ‘X’ for parameter E_ACTIVE and E_ERP2005

C: Indicators of A and B apply for you.
D: None of the indicators of A and B apply for you.

**Business Value:**

- Higher degree of automation, thanks to automatic calculation of credit scores, risk classes and credit limits
- Credit events help the credit analyst to focus on exceptions during his daily business
- Create a relationship from credit analysts to customers
- Process of credit limit requests
- Documented credit decisions
- Higher / lower account relationship of business partners (adds up exposure of lower accounts on higher accounts)
- Less redundant data (reading FI-data via HANA view)

**Business Process related information:**

A & C: You need to migrate FI-AR-CR to FIN-FSCM-CR. The migration from one-system landscapes is supported by tools that SAP provides in the IMG. (see details in chapter “Required and Recommended Action(s)”)

**Influence on Business Processes:**

A & B & C: There will be no change to your business processes because of the system conversion.

A & C: However, some transactions become obsolete and are replaced by new transactions.

Here are some examples for such cases:

<table>
<thead>
<tr>
<th>Examples for replaced transactions in SAP S/4HANA</th>
<th>For the maintenance of the credit account master data, transaction FD32 is replaced by transaction UKM_BP.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For releasing credit-blocked sales orders, transaction VKM1 is replaced by transaction UKM_MY_DCDS.</td>
</tr>
<tr>
<td>Transactions not available in SAP S/4HANA</td>
<td>F.28 - Customers: Reset Credit Limit</td>
</tr>
<tr>
<td></td>
<td>F.31 - Credit Management - Overview</td>
</tr>
<tr>
<td></td>
<td>F.32 - Credit Management - Missing Data</td>
</tr>
<tr>
<td></td>
<td>F.33 - Credit Management - Brief Overview</td>
</tr>
<tr>
<td></td>
<td>F.34 - Credit Management - Mass Change</td>
</tr>
<tr>
<td></td>
<td>FCV1 - Create A/R Summary</td>
</tr>
<tr>
<td></td>
<td>FCV2 - Delete A/R Summary</td>
</tr>
<tr>
<td></td>
<td>FCV3 - Early Warning List</td>
</tr>
<tr>
<td></td>
<td>FD24 - Credit Limit Changes</td>
</tr>
<tr>
<td></td>
<td>FD32 - Change Customer Credit Management (but FD33 still available for Migration checks)</td>
</tr>
</tbody>
</table>
The following settings in Customizing are affected by the migration:

- All IMG activities for SAP Credit Management are listed in Customizing under the following path: **Financial Supply Chain Management > Credit Management**.
- The credit limit check for sales document types can only be specified as type D in SAP Credit Management or can be left empty (no credit limit check). The credit limit check types A, B, and C are no longer available.
- The credit check when changing critical fields has been removed from the SD side.
- The payment guarantee-related Letter of Credit has been removed from the SD side.
- A credit check on the basis of the maximum document value is not supported in SAP S/4HANA 1511 SP00 and SP01. It is supported as of SAP S/4HANA 1511 FPS2.

**Required and Recommended Action(s):**

B: Migrating Credit Management is not needed. Review of BadIs “UKM_R3_ACTIVATE” and “UKM_FILL” is advisable. Think of using the default implementation provided by SAP. (FI-data will then be read real-time with the default implementation of BadI “UKM_R3_ACTIVATE”. The implementation of BadI “UKM_FILL” is then not needed anymore.)

D: Nothing to do, migration of Credit Management is not needed.

A & C: You need to migrate FI-AR-CR to FIN-FSCM-CR completely. This migration comprises several elements:

- Configuration data
- Master data
- Credit exposure data
- Credit decision data
The migration from one-system landscapes is supported by tools that SAP provides.

Reviewing the migrated Customizing is advisable afterwards: For example, risk classes are now maintained once for a customer (for all segments) instead of maintaining them per customer’s credit control area.

1. Prerequisites for the migration to SAP Credit Management:

   - You have completed all documents related to payment guarantee Letter of Credit.
   - You have completed the migration for Accounting.
   - If you are running on your own code, you have eliminated the usage of SAP objects in your own code. For details on how to adapt user-defined customer code that relies on the changed objects, see the following SAP Notes:
     - 2227014 (Financials)
     - 2227014 (SD)

2. Perform the recommended actions in the Task List PDF attached to this Note (only available in English). This list is only valid for the conversion of one-system landscapes.

   C (additionally): Review of BadIs “UKM_R3_ACTIVATE” and “UKM_FILL” is advisable. Think of using the default implementation provided by SAP.

### Related SAP Notes

<table>
<thead>
<tr>
<th>Custom code-related information (SD)</th>
<th>SAP Note: 2217124</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom code-related information (Financials)</td>
<td>SAP Note: 2227014</td>
</tr>
</tbody>
</table>

### 38.13S4TWL - ERP SD Revenue Recognition

**Application Components:** SD-BIL-RR

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267342</td>
<td>S4TWL - ERP SD Revenue Recognition</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.
Solution

Description

ERP SD Revenue Recognition (see SAP Help: Link) is not available within SAP S/4HANA. The newly available SAP Revenue Accounting and Reporting functionality should be used instead.

The new functionality supports the new revenue accounting standard as outlined in IFRS15 and adapted by local GAAPs. The migration to the new solution is required to comply with IFRS15, even if no upgrade to SAP S/4HANA is performed.

Business Process-Related Information

Sales and Distribution (SD) Revenue Recognition is not available in SAP S/4HANA. None of the SD Revenue Recognition functionality will work in SAP S/4HANA.

For sales orders or contracts that were processed by SD Revenue Recognition and are **not** migrated to SAP Revenue Accounting and Reporting, this includes:

- Realize deferred revenue
- Realize revenue before invoice posting
- Defer revenue at invoice posting
- Check SD Revenue Recognition data consistency
- Cancel SD Revenue Recognition postings

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>OVACT “Revenue Recognition: Activations”</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OVEP “Maintain Item Categories: Revenue Recognition”</td>
</tr>
<tr>
<td></td>
<td>VF42 “Update Sales Documents”</td>
</tr>
<tr>
<td></td>
<td>VF43 “Revenue Recognition: Posting Doc”</td>
</tr>
<tr>
<td></td>
<td>VF44 “Revenue Recognition: Work List”</td>
</tr>
<tr>
<td></td>
<td>VF45 “Revenue Recognition: Revenue Report”</td>
</tr>
<tr>
<td></td>
<td>VF46 “Revenue Recognition: Cancellation”</td>
</tr>
<tr>
<td></td>
<td>VF47 “Revenue Recognition: Consistency Check”</td>
</tr>
<tr>
<td></td>
<td>VF48 “Revenue Recognition: Compare Report”</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

**Prior to the Conversion to SAP S/4HANA**, you need to migrate all sales order and contracts processed by SD Revenue Recognition to SAP Revenue Accounting and Reporting that are

- not fully delivered and invoiced
- have deferred revenue still to be realized
- and for which you expect follow-on activities like increase quantity, create credit memo or cancel invoice
Please refer to note 2591055 that contains information about known restrictions of SAP Sales Integration with SAP Revenue Accounting and Reporting (SAP SALES INTEGR SAP RAR 1.0) which is also known as the SD Integration Component.

**If you are using SD Revenue Recognition, you need to evaluate whether a migration to SAP Revenue Accounting and Reporting is possible for your business before you decide to convert to SAP S/4HANA.**

You can find more details about the migration to SAP Revenue Accounting and Reporting in the following notes:

- **2582784**
  Revenue Accounting and Reporting with SAP RAR 1.3 and S/4HANA 1809 & 1909 OP - FAQ's and Guidance

- **2733866**
  Migration Guide for SD Revenue Recognition to Revenue Accounting and Reporting

**Related SAP Notes**

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<th>Conversion pre-checks</th>
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<tr>
<td>Custom code-related information</td>
<td>SAP Note: 2225170</td>
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</tbody>
</table>

**38.14S4TWL - Optimization of SD Rebate Processing for TPM Customers**

**Application Components:** SD-BIL-RB

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267344</td>
<td>S4TWL - Optimization of SD Rebate Processing for TPM Customers</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Business Value**
Redundant index data, to determine relevant documents, was removed. This leads to a significantly reduced database footprint. Additional information can be found in note 2200691 and the documentation/notes for business function LOG_SD_REBATE_INDEX.

Description

Customers with an active CRM TPM or Trade Management license can continue using SD Rebate Processing, even though a successor is already being provided by Settlement Management (cp. simplification item SD Rebate Processing replaced by Settlement Management).

Business Process-Related information

For more information, see note 2226380.

For these customers, the existing SD Rebate functionality has been optimized with regard to the database footprint. For this purpose, from a technical viewpoint, the rebate index table VBOX is not available.

Licensed customers can optionally enable the creation of rebate agreements directly in sales via removal of the blacklist entries for VB01 (Note 2249880). However, for the TPM process this is not necessary at all, since for this business process, rebate agreements are created by CRM TPM.

Regardless of any TPM licences the usage right of SD Rebates in SAP S/4HANA will end with the end of standard or extended maintenance of SAP ERP/ECC.

The SD Rebate solution is only provided in the current scope. Upcoming legal requirements and additional functionalities will only be covered in the Settlement Management solution.

Required and Recommended Action(s)

- If the customer is using the extended SD rebate processing, a rebuild of the S469 content is required after the upgrade.
- The customer has to maintain new customizing settings.

How to Determine Relevancy

This Transition Worklist Item is only relevant if the customer has an active Trade Promotion Management or Trade Management license.

The S/4HANA Readiness Check determines this Transition Worklist Item as relevant if SD Rebates have been used in the customer system (table KONA has entries with field
ABTYP Equal to 'A'). But in fact only those customers are affected which have an active Trade Promotion or Trade Management license.

The general changes for SD Rebates are described in note 2267377 - S4TWL - SD Rebate Processing Replaced by Settlement Management

Related SAP Notes

<table>
<thead>
<tr>
<th>Custom code-related information</th>
<th>SAP Note: 2200691</th>
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</thead>
</table>

38.15S4TWL - Simplification in SD Analytics

Application Components: SD-IS, SD-HBA-SOF, SD-HBA-VDM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267348</td>
<td>S4TWL - Simplification in SD Analytics</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

SD Analytics based on Logistics Information System (LIS) is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, SD Analytics based on LIS can be found under the ID 481.

This means that you need to migrate from "SD Analytics based on Logistics Information System (LIS)" to its designated alternative functionality SAP S/4HANA Sales Analytics before expiry of the compatibility pack license.

Business Process-Related Information
Simplification in SD Analytics follows the overall analytics strategy in SAP S/4HANA: Instead of prebuilt aggregates and/or redundant data for analytical purposes, the SAP S/4HANA Analytics approach is based on ODATA and Open CDS (also known as ABAP-managed Core Data Services (CDS)), which sit directly on top of the original database tables. Corresponding analytics content will be provided within SAP S/4HANA. This content will grow over time.

**CDS Basic Views Represent the Core Entities in SD**
The SD-specific business objects Sales Order, Customer Invoice, Outbound Delivery, and many others on top of database tables VBAK, LIKP, and VBRK are represented by CDS views that encompass access of the analytics CDS queries to the database in a uniform manner. This is achieved by offering semantic field names and associations to connected business objects, such as Customer, Material, and so on.

All analytics content will be built on top of these core entities.

**Incoming Sales Orders and Sales Volume Based on CDS Views**
The initially delivered analytics content consists of two CDS queries: Incoming Sales Orders and Sales Volume. These two exemplify the capability of SAP S/4HANA to report directly on the database, without any prebuilt aggregates, but with the possibility to make use of all dimensions for grouping, aggregation, and filtering on the fly.

**New Persistent Fields in the Database**
To make effective use of SAP S/4HANA's capabilities for SD Analytics, there are new persistent fields in the database (which, in the past, were only calculated on the fly):

- Sales Order Open Delivery Quantity and Amount (on schedule line level - VBEP)
- Sales Order Requested Quantity in Base Unit (on item level - VBAP)

**Further Usage of BW and LIS/SIS**
Data extraction from SAP S/4HANA to a customer-owned BW-Hub is still supported. See note [https://launchpad.support.sap.com/#/notes/2500202](https://launchpad.support.sap.com/#/notes/2500202) for further information about the relation of S/4HANA to BW.

If you use a material number longer than 18 characters - see restriction note “Extended Material Number in LIS: SAP Note 2232362”.

**Deprecated or obsolete Transactions**

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>VA06 - Sales Order Monitor</th>
<th>Instead of transaction VA06 SAP recommends the Fiori App 'Sales Order Fulfillment Issues'</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transactions in compatibility scope</td>
<td>MCTA - SIS: Customer Analysis – Selection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MCTC - SIS: Material Analysis – Selection</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For alternatives refer to our documentation for Sales Monitoring and Analytics on help.sap.com.</td>
<td></td>
</tr>
<tr>
<td>MCTE</td>
<td>SIS: Sales Org. Analysis – Selection</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>-------------------------------------</td>
<td></td>
</tr>
<tr>
<td>MCTG</td>
<td>SIS: Sales Office Analysis Selection</td>
<td></td>
</tr>
<tr>
<td>MCTI</td>
<td>SIS: Sales Empl. Analysis Selection</td>
<td></td>
</tr>
<tr>
<td>MCTK</td>
<td>SIS: Shipping Pt. Analysis Selection</td>
<td></td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

As SD Analytics based on LIS can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. However, we strongly recommend doing a business evaluation and decision, at which point in time this will be done, early in advance to plan accordingly for the migration efforts.

Customers using SD Analytics based on LIS and customers extracting data from SAP ERP to their own BW-Hub can continue with these processes in SAP S/4HANA considering the additional information in the referenced notes.

**How to Determine Relevancy**

This Transition Worklist Item is relevant if the customer is using any of the transactions listed above.

**Related SAP Notes**

| Custom code-related information | SAP Note: 2227750 |


Transaction MCSI (for custom-defined info structures) will not be deprecated (perpetual scope).

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, ID 481
38.16S4TWL - Advanced Order Processing and Billing for Contractors to the public sector

Application Components: SD-SLS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2267350</td>
<td>S4TWL - Advanced Order Processing and Billing for Contractors to the Public Sector</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

**Solution**

**Description**

The functionality Advanced Order Processing and Billing for contractors to the public sector is not available in SAP S/4HANA (and not on the roadmap).

**Business Process-Related information**

Customers using Advanced Order Processing and Billing for contractors to the public sector in ERP that are planning to move to SAP S/4HANA need to remodel their business processes accordingly.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>VACB Advanced Order Processing and Billing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Customizing t-codes:</td>
</tr>
<tr>
<td></td>
<td>• /CBAD/98000075</td>
</tr>
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<td></td>
<td>• /CBAD/98000076</td>
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<td>• /CBAD/98000084</td>
</tr>
<tr>
<td></td>
<td>• /CBAD/98000085</td>
</tr>
</tbody>
</table>
38.17S4TWL - Operational Data Provisioning

Application Components: SD-SLS-GF-RE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267351</td>
<td>S4TWL - Operational Data Provisioning</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. In this scenario, the following SAP S/4HANA Transition Worklist item applies.

Solution

Description

Operational Data Provisioning in SD (see SAP Help: Link) is not available in SAP S/4HANA.

Simplification in SD Analytics follows the overall analytics strategy in SAP S/4HANA (see Simplification Item SD Analytics): The SAP S/4HANA Analytics approach is based on ODATA and Open CDS (also known as ABAP-managed Core Data Services (CDS)), which sit directly on top of the original database. Corresponding analytics content will be provided in SAP S/4HANA. This content will grow over time.

Successor: HANA Analytics

CDS Basic Views Representing the Core Entities in SD

The SD-specific business objects Sales Order, Customer Invoice, Outbound Delivery, and many others on top of database tables VBAK, LIKP, and VBRK are represented by CDS views that encompass access of the analytics CDS queries to the database in an uniform manner by offering semantic field names and associations to connected business objects as Customer, Material, and so on.
All analytics content will be built on top of these core entities.

**Business Process-Related Information**

No impact on business processes is expected.

**Required and Recommended Action(s)**

If operational or analytical reporting is requested, it is recommended that the customer starts evaluating the use of HANA Analytics.

**How to Determine Relevancy**

This Transition Worklist Item is relevant if the customer has used Operational Data Provisioning in SD.

In SAP ERP the functionality was assigned to the Business Function LOG_SD_ANALYTICS_01.

**Related SAP Notes**

| Custom code-related information | SAP Note: 2228056 |
39. Service Operations & Processes

39.1 Industry functionality from SAP CRM which is not supported in S/4HANA


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3052214</td>
<td>Industry functionality from SAP CRM which is not supported in S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You are considering or planning a migration of an SAP CRM 7.0 or SAP CRM 7.0 EhP installation to S/4HANA OP 1909 or a higher release. In this case, the following information about changed or deprecated functionality is relevant.

Solution

Industry functionality from SAP CRM from various industries is not available in S/4HANA. This comprises the following industry solutions (the corresponding application component is mentioned in parentheses):

- Automotive (CRM-IA)
- Financial Services (CRM-IFS), including the SOA services for the Business Partner (FS-BP)
- Healthcare (CRM-ISH)
- High Tech (CRM-IHT)
- Leasing (CRM-LAM, CRM-BTX-BF-FIN)
- Partner Channel Management (CRM-CHM)
- Media (CRM-IM)
- Pharmaceuticals (CRM-IPH)
- Retail (CRM-ISR)
- Service Parts Management (no specific application component)
- Trade Promotion Management (CRM-MKT-MPL-TPM), including:
  - Claims Management (CRM-CLA)
  - Funds Management (CRM-FM)
- Travel & Transportation (CRM-ITT)
- Usage Based Billing (CRM-BTX-CTR-UCO)
- Utilities: Demand Side Management (CRM-IU-DSM)
As a consequence, the following business objects which were based on the CRM business transactions ("One Order") framework are not supported in S/4HANA:

<table>
<thead>
<tr>
<th>Financial Services</th>
<th>BUS2000307</th>
<th>FS Object Container</th>
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</thead>
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<tr>
<td></td>
<td>BUS2000308</td>
<td>FS Main Contract</td>
</tr>
<tr>
<td>Leasing</td>
<td>BUS2000114</td>
<td>Financing Contract</td>
</tr>
<tr>
<td>Media</td>
<td>BUS2000230</td>
<td>License Sales Contract</td>
</tr>
<tr>
<td></td>
<td>BUS2000231</td>
<td>License Acquisition Contract</td>
</tr>
<tr>
<td></td>
<td>BUS2000232</td>
<td>License Usage Confirmation</td>
</tr>
<tr>
<td>TPM: Claims Management</td>
<td>BUS2000310</td>
<td>Claim Submission</td>
</tr>
<tr>
<td></td>
<td>BUS2000311</td>
<td>Claim</td>
</tr>
<tr>
<td></td>
<td>BUS2000312</td>
<td>Prepayment Request</td>
</tr>
<tr>
<td></td>
<td>BUS2000313</td>
<td>Budget Reservation</td>
</tr>
<tr>
<td></td>
<td>BUS2000320</td>
<td>Claim Chargeback</td>
</tr>
<tr>
<td></td>
<td>BUS2000330</td>
<td>Claim Chargeback Recovery</td>
</tr>
<tr>
<td>TPM: Funds Management</td>
<td>BUS2000400</td>
<td>Fund Plan</td>
</tr>
<tr>
<td></td>
<td>BUS2000401</td>
<td>Fund</td>
</tr>
<tr>
<td></td>
<td>BUS2000402</td>
<td>Budget Posting</td>
</tr>
<tr>
<td>Travel &amp; Transportation</td>
<td>BUS2000246</td>
<td>Toll Collect Contract Header</td>
</tr>
<tr>
<td>Usage Based Billing</td>
<td>BUS2000250</td>
<td>Pool Contract</td>
</tr>
<tr>
<td>Utilities: Demand Side Management</td>
<td>BUS2000410</td>
<td>DSM Application</td>
</tr>
<tr>
<td></td>
<td>BUS2000411</td>
<td>DSM Agreement</td>
</tr>
</tbody>
</table>

**Other Terms**

S4CRMTWL
40. Transportation Management

40.1 S4TWL - Simplified customizing of Transportation Management (TM) integration

Application Components: TM-FRS-IP, TM-FRS-IV, TM-FRS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2465978</td>
<td>S4TWL : Impact on TM process with conversion of SAP ERP or upgrade of S/4HANA 1511/1610 to S/4HANA 1709</td>
</tr>
</tbody>
</table>

**Symptom**

You use SAP ERP Enhancement Package 4, 5, 6, 7 or 8 or S/4HANA 1511 or S/4HANA 1610 for freight settlement process integration with Materials Management (MM) with SAP TM in a side-by-side mode.

As a part of integration, there are mappings maintained for freight settlement document (FSD) type to purchase order (PO) Type, material group, plant in the view TCM_V_PUR_MAP.

There are entries for the same FSD type mapped to different PO type / material group / plant OR there are entries where FSD type is blank.

The system conversion is planned to S/4HANA 1709 or system upgrade is planned from S/4HANA 1511 or S/4HANA 1610 to S/4HANA 1709.

**Reason and Prerequisites**

Conversion to S/4HANA

**Solution**

**Business Value:**

Since Transportation Management (TM) is available internally as part of S/4HANA 1709, customers can now have the TM integration in a single system also. Also this has impact to the side-by-side integration with S/4HANA 1709 onwards.

The mapping requirement for the posting of the freight settlement document in S/4HANA 1709 is now changed. From S/4HANA 1709 release onwards, the usage of the view
TCM_V_PUR_MAP and the underlying customizing table TCM_C_PUR_MAP have been discontinued.

**Description:**

In a side by side scenario, with S/4HANA 1709, there are the following changes required.

1. The mapping of purchase organization unit from TM org data to the MM Purchase organization is no longer required in S/4HANA. SAP TM sends this mapping information with the message type: TransportationOrderSUITEInvoicingPreparationRequest used in the A2A service interface: TransportationOrderSUITEInvoicingPreparationRequest_In on S/4HANA.

2. The other information for posting of the freight settlement document such as PO type, plant and material group are now maintained in the maintainence view based on the /SCMTMS/C_SFIR_T table using the customizing activity *Assign Purchasing Information for Posting* under *Transportation Management > Settlement > Freight Settlement > Integration for Settlement Posting*. You now maintain the PO type, plant and material group at the freight settlement document type level.

System conversion or upgrade shall take care of copying the entries from the source table to the target table which is /SCMTMS/C_SFIR_T table. For the copy to happen successfully, there should not be conflicting entries for the same FSD type or entries with blank FSD types in the source table i.e. in table TCM_C_PUR_MAP.

**Business process related information:**

Freight settlement document from stand alone SAP TM is transferred to S/4HANA 1709 for posting using A2A service interface: TransportationOrderSUITEInvoicingPreparationRequest_In.

**Required and Recommended action(s):**

In order to ensure that the data available in TCM_C_PUR_MAP table is consistent enough to be copied into the target table /SCMTMS/C_SFIR_T via an X Pra which will be executed during the upgrade / system conversion process, it is required that the source table doesn't contain:

1. Entries where FSD type is blank

2. Entries for the same FSD type to different PO type / plant / material group.

If you have any of the above combinations of data in the source table, Review these entries to adjust the right settings either by
1. Deleting the duplicate FSD type records

2. Deleting the records with blank FSD type or specifying the FSD type in such entries. To add the FSD type where FSD type is blank, you will need to copy such records in the source table and enter the FSD type before saving and then followed by deletion of records which are with blank FSD types.

NOTE: Before conversion please also check if there are FSDs in the source SAP TM system where these combination in conflict are required for posting of the settlement document. In case, kindly ensure that the above mentioned corrections are made keeping these yet to be processed FSDs for posting.

How to determine relevancy:

In order to ensure that the data available in TCM_C_PUR_MAP table is consistent enough to be copied into the target table /SCMTMS/C_SFIR_T via an XPRA which will be executed during the upgrade / system conversion process, it is required that the source table doesn't contain:

1. Entries where FSD type is blank
2. Entries for the same FSD type but mapped to different PO type / plant / material group.

Other Terms

System conversion, S/4HANA, SAP TM, Freight settlement document transfer, FSD transfer, Freight settlement document posting, FSD posting, TM process, TM - ERP integration, TM Internal in S/4HANA

40.2 S4TWL - Forwarding Settlement Document Transfer in TM

Application Components: TM-FWS, TM-FWS-BIL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2639847</td>
<td>S4TWL : Impact on TM process with conversion of SAP ERP or upgrade of S/4HANA 1511/1610/1709 to S/4HANA 1809</td>
</tr>
</tbody>
</table>

Symptom
You use SAP ERP Enhancement Package 4, 5, 6, 7 or 8 or S/4HANA 1511 or S/4HANA 1610 or S/4HANA 1709 for posting of forwarding settlement and internal settlement document in Sales and Distribution (SD).

As a part of integration of SAP TM, there are changes to the IMG activities that are used for the forwarding settlement and internal settlement integration. These changes need to be evaluated for impact prior to the system conversion to S/4HANA 1809 or above.

**Reason and Prerequisites**

Conversion to S/4HANA

**Solution**

**Business Value:**

Since Transportation Management (TM) is available internally as part of S/4HANA 1809, customers can now have the TM integration in a single system and in a side-by-side integration. To minimize the data and system set up for Supply Chain Transportation Management with in S/4 HANA, TM forwarding settlement module is redesigned with a few simplification of the IMG activities.

**Description:**

In a side by side scenario, with S/4HANA 1809, there are the following changes required.

1. The mapping of sales organization unit in the organization Model to the SD Sales organization is no longer required in TM module in S/4 HANA and in SAP TM. TM utilizes the SD sales organization available in the field BSG Org. Unit (LOGQS_ID) and sends this information with the message type: CustomerFreightInvoiceRequestSUITERequest used in the A2A service interface: CustomerFreightInvoiceRequestSUITERequest_In_V1 on S/4HANA.

2. The information for posting of the forwarding settlement document or internal settlement document (inter-company) such as Sales document type, billing type, billing item type and pricing procedure are now maintained in the table /SCMTMS/C_CFIR_T for each forwarding settlement document type and internal settlement (inter-company) document type. The usage of the table TCM_C_SLS_MAP is discontinued.

3. For intra company settlement posting scenario, the usage of tables TCM_C_TCD_MAP and TCM_C_TCD_PURMAP are discontinued. During system conversion or upgrade, the system shall take care of copying the entries from the source table TCM_C_TCD_MAP to the target table TCM_C_SLSASSGN and from TCM_C_TCD_PURMAP table to the target table TCM_C_PURASSGN tables.
Business process related information:

Forwarding settlement document or internal settlement document from stand alone SAP TM is transferred to S/4HANA 1809 for posting using A2A service interface: CustomerFreightInvoiceRequestSUITERequest_In_V1.

Required and Recommended action(s):

For the upgrade to be successful, it is recommended that the RFC destination for the TM system is maintained as a combination of logical system and client separated by an underscore '_'(LOGSYS_CLIENT)

In order to ensure that the data available in TCM_C_SLS_MAP table is consistent enough to be copied into the target table /SCMTMS/C_CFIR_T via an XPRA which will be executed during the upgrade / system conversion process, it is required that the source table does not contain:

1. Entries where FWSD type is blank
2. Entries for the same FWSD type to different sales document type / billing type / billing item type and pricing procedure.
3. Entries where there are different division and distribution channel maintained.
4. Entries where the logical system is blank.
5. Entries where the ECC sales organization, FWSD category is blank.

If you have any of the above combinations of data in the source table, Review these entries to adjust the right settings either by

1. Deleting the duplicate FWSD type records
2. Deleting the records with blank FWSD type or specifying the FWSD type in such entries. To add the FWSD type where FWSD type is blank, you will need to copy such records in the source table (TCM_C_SLS_MAP) and enter the FWSD type before saving and then followed by deletion of records which are with blank FWSD types.
3. Maintain the same division and distribution channel for all the entries in the source table.
4. Maintain an appropriate logical system for all the entries.
5. Maintain the ECC sales organization and the FWSD category for all the entries.
6. In the table TCM_C_SLS_MAP, maintain the mapping of TM sales org with the ECC sales org which is the 'BSG Org ID' maintained in the TM org model.

In order for the entries to be copied from the tables for TCM_C_TCD_MAP to the TCM_C_SLSASSGN tables it is required that the data in the source tables does not contain:

1. Entries where the logical system is blank
2. Entries where the TM sales organization is blank
3. Entries where the controlling area, internal order and cost center are blank

If you have any of the above combinations of data in the source table, Review these entries to adjust the right settings either by

1. Maintain the appropriate logical system
2. Maintain the TM sales organization
3. Maintain the controlling area, internal order and cost center for all entries

In order for the entries to be copied from the tables for TCM_C_TCDPURMAP to the TCM_C_PURASSGN tables it is required that the data in the source tables does not contain:

1. Entries where the logical system is blank
2. Entries where the TM purchase organization is blank
3. Entries where the controlling area, internal order and cost center are blank

If you have any of the above combinations of data in the source table, Review these entries to adjust the right settings either by

1. Maintain the appropriate logical system
2. Maintain the TM purchase organization
3. Maintain the controlling area, internal order and cost center for all entries

**NOTE:**

Before conversion please also check if there are FWSDs or internal settlement document in the source SAP TM system which are not yet posted to SAP ERP or the S/4 HANA.
system where these combination in conflict are required for posting of the settlement document. If these settlement documents are posted post conversion, the new tables would be used for posting data.

**How to determine relevancy :**

In order to ensure that the data available in TCM_C_SLS_MAP table is consistent enough to be copied into the target table /SCMTMS/C_CFIR_T via an XPRA which will be executed during the upgrade / system conversion process, it is required that the source table doesn't contain:

1. Entries where FWSD type is blank

2. Entries for the same FWSD type but mapped to different sales document type/ billing type / billing item type and pricing procedure.

**Other Terms**

System conversion, S/4HANA, SAP TM, Forwarding settlement document transfer, FWSD transfer, Forwarding settlement document posting, FWSD posting, TM process, TM - ERP integration, TM Internal in S/4HANA
41. Globalization Financials

41.1 S4TWL - Globalization – Financials

Application Components: FI-LOC, XX-CSC-XX

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270311</td>
<td>S4TWL - Globalization – Financials</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With the installation of the SAP S/4HANA on-premise edition 1511, certain country-specific transaction codes and programs in the application area of Financials have been replaced with newer transactions or programs (compared to EhP7 for SAP ERP 6.0). For more details about the affected transactions and programs and their replacements, refer to SAP Notes 2029012 and 2227963.

41.2 S4TWL - Annexing Solution for Israel

Application Components: XX-CSC-IL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2437547</td>
<td>S4TWL - Annexing Solution for Israel</td>
</tr>
</tbody>
</table>

Symptom

The SAP LOCILERP Add-on (software component LOCILERP) has been integrated to S4H On Premise Edition as of version S4H OP 1610.
Here new Business Functions and switches have been provided to make Area Menus, IMG nodes etc. switchable.

**Reason and Prerequisites**

This note is relevant for you when your start release for the system conversion is an ERP release or is S/4HANA Finance release, where you have the Israeli annexing solution implemented in system via transports solution or via LOCILERP add-on.

It is not relevant if your start release is S/4HANA.

**Solution**

**Description**

Israeli Annexing Solution is an On Premise solution provided as LOCILERP Add-On for the Israeli market based on Inflation Adjustment Law that was published in Israel during the 80’s.

**Business Process related information**

Annexing calculation is done via a central FM that is based on Annexing Packages which includes all the relevant conditions/rules for the calculation, and based it on Indexes, currency exchange rate and on SD Price List

The annexing calculation is in used in several modules in ERP environment as follow:

- Logistic Invoice Verification
- Sales and Distribution Billing Process
- Loans Cash Flow
- Treasury Cash Flow
- Flexible Real Estate Contract Adjustment

The annexing solution in all its modules is based on the Master Data of Annexing Packages and on a local customizing as well.

**Required and Recommended Action(s)**

The SAP LOCILERP add-on is shipped with the core product starting with SAP S/4HANA, on premise edition 1610 (S4CORE 101). For more information, see the attached business functions description: “TRM Localization for Annexing in Israel”, “FI, LO Localization for Annexing in Israel”. And country-specific release notes: 2349004, 2298073 and 2323282.
In addition, pay attention that LOCILERP modifications should be discarded from system in the upgrade process from Add-on solution to SAP S/4HANA by performing the reset to original in the Modification Adjustment transaction (e.g., SPAU).

### 41.3 S4TWL - Funds Management Portugal

Application Components: XX-CSC-PT-PSM-FM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<td>Business Impact</td>
<td>2469984</td>
<td>S4TWL: Availability of Portuguese Public Sector Funds Management in SAP S/4HANA On-Premise 1709</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA and are using the functionality described in this SAP Note. The following SAP S/4HANA Simplification Item is applicable in this case.

**Solution**

**Description**

This SAP Note is relevant for you when your starting release for the system conversion is a SAP ERP release or a SAP S/4HANA Finance release, where you have the Localization for Portuguese Public Sector solution implemented in your system via transport solution or via LOCPTFM add-on.

It is not relevant for the SAP S/4HANA 1709 FPS00 release.

**Business Process related information**

The SAP LOCPTFM Add-on (software component LOCPTFM) has been integrated into SAP S/4HANA, as of release SAP S/4HANA 1709.

However, the Portuguese Public Sector Funds Management features are available as of SAP S/4HANA 1709 FPS01 with the following restrictions:

- As a Customer who used the integration between Logistics documents and Funds Management with LOCPTFM and is planning to move to SAP S/4HANA, please
note that in SAP S/4HANA, the Funds Management integration with Materials Management has been enhanced to accommodate local version Portugal requirements. However, a document chain initiated with the LOCPTFM Add-on cannot be migrated to SAP S/4HANA and must first be closed in the Add-on system. This restriction does not apply to customers with new installations, or new document chains initiated in SAP S/4HANA.

As a Customer who used the integration between Logistics documents and Funds Management with LOCPTFM and is planning to move to SAP S/4HANA, please note that in SAP S/4HANA there is a new technical solution to support this integration but no migration tool is currently available. For new processes (starting with the pre-commitment document) the new functionality can be used but not for an unfinished document chain.

- **Solution:** as of SAP S/4HANA 1709 SPS03, SAP S/4HANA 1809 FPS01 or the after the installation of SAP Note 2674217, this restriction no longer applies. Please refer to that SAP Note for more information.

- The Funds Management (FM) integration with Human Resources (HR) feature of the SAP LOCPTFM Add-on (software component LOCPTFM) is no longer considered in SAP S/4HANA. For alternative solutions, see Position Budgeting and Control (PBC).
  - **Solution:** as of SAP S/4HANA 2022 FPS01 or after the installation of SAP Note 3236088, this restriction no longer applies. Please refer to that SAP Note for more information.

**Required and Recommended Action(s)**

For detailed information on the system installation/conversion of the Portuguese Public Sector Funds Management, available in SAP S/4HANA 1709 FPS01, please see SAP Note 2595915, *Customer Installation/Conversion Procedures for Portuguese LOCPTFM in S/4HANA On-Premise*.

Please note that with the integration of SAP LOCPTFM into SAP S/4HANA 1709, some ABAP objects of the respective LOCPTFM packages have become obsolete. Therefore, run the ABAP Test Cockpit (ATC) using the latest simplification item DB content and remove all detected usages of the LOCPTFM objects from your custom code.

**Other Terms**

Globalization, Localization, Add-on, PT, Portugal, PTFM, Funds Management, Public Sector, LOCPTFM, PSM-FM
41.4 S4TWL - Golden Tax Interface for China

Application Components: XX-CSC-CN-GTI, FI-LOC-FI-CN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Release Restriction</td>
<td>2727947</td>
<td>GTI Data Migration in S/4HANA On Premise Editions</td>
</tr>
<tr>
<td>Business Impact</td>
<td>2771861</td>
<td>S4TWL - Migration of GTI invoices to SAP S/4HANA 1610 Feature Pack 1 or higher</td>
</tr>
</tbody>
</table>

**Symptom**

This note is only relevant for customers who use China GTI (Golden Tax Interface) solution and convert their system to SAP S/4HANA On-Premise Edition 1610 Feature Pack 1, SAP S/4HANA On-Premise Edition 1709 or SAP S/4HANA On-Premise Edition 1809.

Starting from release SAP S/4HANA On-Premise Edition 1610 Feature Pack 1 the GTI solution is using a new data base design and old generated GTI invoices will not be available in the GTI applications.

**Reason and Prerequisites**

This note is relevant for you when your start release for the system conversion is an ERP release or is an S/4HANA Finance release, where you use the localization of China GTI solution in the system.

**Solution**

In the new data base design for the GTI solution invoices will be stored in 6 new tables and the old invoices can be migrated into these new tables as described in note 2727947.

**Other Terms**

Globalization, Localization, CN, GTI
41.5 S4TWL - Replacement of legal reports with SAP S/4HANA ACR

Application Components: FI-LOC-SRF-RUN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2835816</td>
<td>Replacement of existing legal reports in SAP S/4HANA for Advanced Compliance Reporting (ACR) based reports</td>
</tr>
</tbody>
</table>

**Symptom**

In SAP S/4HANA, some of the existing legal notes have been replaced by SAP S/4HANA for advanced compliance reporting (ACR) based reports. However, the replacement of reports does not apply to all the countries/regions and reports. Some of the existing country/region-specific reports are still relevant.

To understand if the activity “Implement the generic ACR Fiori app succeeding the deprecated legal reports” described in Simplification item SI5: GSFIN_LEG_REP (S4TWL - Replacement of legal reports with SAP S/4HANA ACR) needs to be performed after the system upgrade, please check if you are using any combination of report and country/region listed in note 2480067.

**Solution**

Advanced Compliance Reporting is a unique and competitive legal reporting solution that allows you to manage your regulatory requirements across the globe. The solution offers features that ensure your complex and diverse legal reporting needs are addressed in uniform, easy to use, and efficient manner. As an all-encompassing global reporting solution, advanced compliance reporting provides a holistic and real time view of your compliance status across countries and empowers you to draw meaningful inferences. One of biggest strengths of advanced compliance reporting is that it offers an extensibility platform to SAP partners and customers to create new legal reports or enhance the existing reports. For more details about advanced compliance reporting and country-specific report features, see the documentation note 2465179 (for OP 1610) and the SAP help portal. In case of any generic questions/feedback, raise an incident in component FI-LOC-SRF-RUN.

**Other Terms**

S/4HANA, ACR, Advanced compliance reporting, Legal Reports, SAP S/4HANA for advanced compliance reporting, Run Advanced Compliance Reports, Define Advanced Compliance Reports, Replacement
41.6 S4TWL - Add-on for Polish SAF-T regulatory requirements

Application Components: XX-PROJ-CDP-571

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3096074</td>
<td>S4TWL - Add-on for Polish SAF-T regulatory requirements</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note.

The following SAP S/4HANA Simplification Item is applicable in this case: SI6: GSFIN_PLVAT (S4TWL - Add-on for Polish SAF-T regulatory requirements)

**Solution**

“SAP ERP, add-on for Polish SAF-T regulatory requirements” is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, SAP ERP, add-on for Polish SAF-T regulatory requirements can be found under the ID 131.

This means that you may choose another SAP solution or a partner solution as successor of “SAP ERP, add-on for Polish SAF-T regulatory requirements” before expiry of the compatibility pack license by 31.12.2025.

This note shall provide an overview to which extend the current scope of “SAP ERP, add-on for Polish SAF-T regulatory requirements” maps with other SAP solutions and how you may switch to the alternative functionality considering the respective scope.

This note will regularly be updated to reflect more details on the alternative functionality and the migration.
Business Process related information

**Scope of** SAP ERP, add-on for Polish SAF-T regulatory requirements

- "SAP ERP, add-on for Polish SAF-T regulatory requirements 1.0" is a stand-alone solution. It is not related to the SAP standard solution "SAP Starter Solution". For further information on the "SAP Starter Solution" see SAP Note [2304519](https://support.sap.com) - SAFT-PL: SAP solution strategy and release dates guidance.

- "SAP ERP, add-on for Polish SAF-T regulatory requirements 1.0" is comprised of two parts:
  - **ERP add-on "PLVAT"**: This solution is responsible for the generation of the SAF-T XML files.
  - **Desktop Application "eTransfer"** (also named "PLVAT_DESKTOP"): This application is responsible for the transmission of SAF-T XML files to the Polish tax authorities.

- The solution comprises data extraction only from the following SAP ERP and SAP S/4HANA modules:
  - SAP FI
  - SAP MM
  - SAP SD

For more information about this solution, see SAP Note [2351241](https://support.sap.com) - SAF-T Poland: Release Strategy for "SAP Add-on for Polish SAF-T Regulatory Requirements (Private Cloud Edition/On-Premise)".

**The scope of the alternative functionality** "SAP Starter Solution"

The “SAP Starter Solution“ comprises SAP ERP Finance and Logistics data.

It covers two stages of the end-to-end process

- Settings for Data Extraction (definition of relevant parameters that control the data extraction)
- Data extraction (collection of relevant transactional data needed for file creation)

Note that the file creation, and file submission step is not covered in the „SAP Starter Solution“. For this reason, the logic required for creating the XML file will be within customer’s responsibility.
For guidelines about using „SAP Starter Solution“, please refer to SAP Note 2304519 - SAFT-PL: SAP solution strategy and release dates guidance. This note will also be regularly updated regarding any future roadmap decisions.

**The scope of the alternative functionality** “SAP add-on for Polish SAFT regulatory requirements, private cloud edition”

The solution “SAP add-on for Polish SAFT regulatory requirements, private cloud edition” has the same functionality as the current solution including the desktop application “eTransfer”. As the technical basis is very similar, migration process is comparatively easy.

Customers migrating to SAP S/4HANA Cloud, private edition need to convert their SAFT add-on license to license material 8013722.

**The scope of the alternative functionality** “SAP S/4HANA Cloud, SAP Document and Reporting Compliance reports”

SAP Document and Reporting Compliance is part of the S/4HANA Cloud (public edition) and covers SAFT requirements from various countries including Poland. For a general overview see SAP KBA 2926588 - SAFT in SAP S/4HANA Cloud - SAP Document and Reporting Compliance solution.

Further details can be found in the Product Assistance on SAP Help Portal. (Enter “Poland” in the search field, then follow path: SAP S/4HANA Cloud -> Poland -> General Functions -> Document and Reporting Compliance -> SAFT.) The Product Assistance is regularly updated with the latest features.

**Required and Recommended Action(s)**

As SAP ERP, add-on for Polish SAFT regulatory requirements can be used until the expiry date of the compatibility pack license which is 31.12.2025, it is up to each customer to decide, with which of the coming SAP S/4HANA releases they want to switch to the designated alternative functionality of another SAP solution or to switch to an alternative partner solution.

Depending on your future landscape, you have the following options concerning SAP solutions:

- S/4HANA on-premise: “SAP Starter Solution”

Sufficient switching time should be considered.

For guideline about uninstalling SAP ERP, add-on for Polish SAF-T regulatory requirements, please refer to SAP Note 2869393 - Uninstalling ABAP Add-On PLVAT.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, SAF-T Poland, PLVAT 100, PLVAT100, PLVAT_DESKTOP_100, eTransfer, Standard Audit File, SAFT, SAF-T, Poland, Polska, Audit, JPK, Jednolity Plik Kontrolny, Legal Change, OECD, Tax Reporting, VAT, STANDARD AUDIT FILE F.TAX 1.0, SAP ERP, add-on for Polish SAF-T regulatory requirements 1.0, Release Strategy, SAP Starter Solution

### 41.7 S4TWL - Russia Manage Additional Payment Attributes app

**Application Components:** FI-LOC-FI-RU

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3120536</td>
<td>S4TWL - Russia Manage Additional Payment Attributes app</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or an upgrade to SAP S/4HANA, on-premise 1909 edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This note is relevant for you when your start release for the system conversion is an ERP release or SAP S/4HANA on-premise 1809 edition or lower releases.

It is not relevant if your start release is S/4HANA on-premise 1909 or later.

**Solution**

**Business Value**
New solution to maintain document attributes for Payments to tax authorities before output in Payment Medium.

New Manage Additional Payment Attributes app offers you the following benefits:

- Unified and simplified user experience via Fiori interface
- Improved Mobility. The switch to Fiori delivers advantages to mobile employees. Fiori’s simple interface lets users work with touch screens.
- Increases in Productivity – Fiori-designed interfaces are easier, so they enable more productive work.
- Integration with a Manage Journal Entry app that is main report to see and check postings.

Description

For tax payments attributes in S/4HANA on-premise 1909 and future releases Manage Additional Payment Attributes app has to be used:

- Find your Payment document in the Manage Journal Entries app and click on the journal entry number.
- Select Manage Additional Payment Attributes and enter payment attributes or change existing one.

For more information see Tax Payments help page.

Business Process related information

Manage Additional Payment Attributes app replaces the solution:

- Payment attributes screen during Financial Document posting and Financial Document change (Open FI Functional Modules J_3RF_PDOCV_2218 and J_3RF_PDOC1430)

Note that depending on your SAP S/4HANA release and planned end of support date previous solution will become obsolete. After end of support date these solutions will not be updated by new legal changes or corrections. We highly recommend that you use the Fiori based apps instead of the old previous solution.

SAP S/4HANA on-premise 1809 and previous releases
No planned end of support date

SAP S/4HANA on-premise 1909 and future releases
Only Manage Tax Payment Attributes Fiori will be supported.
Payment attributes screen during Financial Document posting and Financial Document
change (Open FI Functional Modules J_3RF_PDOCV_2218 and J_3RF_PDOC1430) is obsolete within these releases.

**Required and Recommended Actions:**

- Set up new Fiori app “Manage Additional Payment Attributes (Refer to SAP Note 2931354).
- If you have made customer enhancements to the obsoleted Open FI function modules, check if you need to reimplement them in the new Fiori App. Custom logic can be implemented in the BAdI FIGLO_PMNT_FIELDS.
- Train your users.

**How to Determine Relevancy**

Check that you have configured the Open FI module J_3RF_PDOCV_2218 for the event 2218 and Open FI module J_3RF_PDOC1430 for the event 1430 or you have entries in Payment Attributes table J_3RF_PLAT.

**Other Terms**

Russia, Payment order, additional information, Payment details, J_3RF_PDOC

**41.8 S4TWL - SAF-T RO: Replacement of ABAP Report Solution with DRC Solution**

Application Components: FI-LOC-FI-RO, FI-LOC-SAF-RO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3256877</td>
<td>S4TWL - SAF-T RO: Replacement of ABAP Report Solution with DRC Solution</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA and are using the functionality described in this SAP Note.

To understand if the activity “Implement the generic DRC Fiori app succeeding the deprecated legal reports” described in Simplification item SI9: GSFIN_SAFT_RO (S4TWL - SAF-T RO: Replacement of ABAP Report Solution with DRC Solution) needs
to be performed after the system upgrade, please check if you are using any combination of report and country/region listed in note 2480067.

Solution

Description

This SAP Note is relevant for you when your starting release for the system conversion is an SAP ERP release or an SAP S/4HANA Finance release, where you have the ERP SAF-T for Romania solution implemented (transactions SAFTN_E & SAFTN_G) in your system.

Business Process related information

In S/4 Hana, the requirement of generating SAF-T files according to the legal format of Romania is covered by the Document and Reporting Compliance (DRC) Application. For this reason, the SAF-T Romania solution of ERP (transactions SAFTN_E & SAFTN_G) is not to be used anymore and shall be replaced by the corresponding report defined in the DRC app.

There is no need to migrate data. After the transition to S/4 Hana, it is still possible to generate SAF-T files for previous reporting periods using the DRC application, no matter if files have been generated for the same reporting period before the transition or not.

Required and Recommended Action(s)

To use the DRC report for SAF-T Romania, some general configuration settings have to be made, like for example defining the required reporting entities. Refer to the corresponding help document.

The ERP SAF-T solution for Romania offers a monitoring app (transaction SAFTN_M). This transaction is not supported anymore in SAP S/4HANA. If you need to keep the details about extracted data and generated files, we recommend to download the monitoring details before the transition. In addition, we recommend to clean up the extraction data using transaction SAFTN_D before the transition to save database storage space as these entries are not used anymore after the transition to SAP S/4HANA.

Please note that with the transition from SAP ERP SAF-T solution for Romania to SAP DRC, some ABAP objects of package /CEECV/RO_SAFT have become obsolete. Therefore, run the ABAP Test Cockpit (ATC) using the latest simplification item DB content and remove all detected usages of the corresponding objects from your custom code.

In case you have implemented any extension to the selection logic according to note 3237660, check the need for a corresponding extension after the transition. In case you
still require an extension to the standard logic, use the available DRC extension techniques to implement them. Find more information on how to do this in the corresponding help document.

**Other Terms**

Globalization, Localization, CEE Add-on, RO, SAF-T RO, SAF-T, ANAF 1783/2021, Romania
42. Globalization Logistics

42.1 S4TWL - Globalization – Logistics

Application Components: FI-LOC-LO, XX-CSC-BR-REP, XX-CSC-BR, FI-LOC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270312</td>
<td>S4TWL - Globalization – Logistics</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Business Value

The SAP Tax Declaration Framework for Brazil solution is an integrated tax management solution that helps Brazilian companies to be in compliance while saving time and money by reducing the operational costs with auditing, analyzes and assessments of fiscal information; by eliminating direct and indirect costs with tax management software; and by offering greater accuracy on fiscal planning and taxes payment.

TAXBRA tax procedure is a more flexible and up-to-date solution.

Description

The following functionality related to Country Version for Brazil is not available in SAP S/4HANA, on-premise Edition 1511:

- Legal Books and Fixed Asset taxes credit (ICMS and PIS/COFINS).
- TAXBRJ Tax procedure has restricted maintenance but it is still available for compatibility reasons.

Required and Recommended Action(s)

SAP recommends using the following:

- SAP Tax Declaration Framework for Fiscal and Accounting Legal Reporting.
- TAXBRA tax procedure for the tax calculation.
Note: SAP Tax Declaration Framework is part of the Compatible Add-ons and requires an additional license.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>General</th>
<th>SAP Note: 2244803 - Fiscal and Accounting Legal Reporting for SAP S/4HANA, on premise edition 1511</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Code related information</td>
<td>SAP Note: 2195701</td>
</tr>
</tbody>
</table>

**42.2 S4TWL - eDocument Framework Migration to SAP S/4HANA**

Application Components: CA-GTF-CSC-EDO

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2523749</td>
<td>eDocument Framework: Migration from SAP ERP to SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You have implemented the eDocument Framework in SAP ERP and want to migrate to SAP S/4HANA.

This SAP Note contains additional steps that you must perform in order to migrate the eDocument Framework and the country solutions that you have implemented.

**Reason and Prerequisites**

**Reason:**

In SAP S/4HANA, the SAP Application Interface Framework (AIF) Add-On has been integrated as standard component. The AIF message index tables ZEDOAIFIDXREQ and ZEDOAIFIDXRES have been replaced by standard tables EDOAIFIDXREQ and EDOAIFIDXRES. In addition, BAdI implementations ZEI_EDOC_AIF_RUNTIME_METHODS and ZEI_EDOC_AIF_V1_ACT have become obsolete.

**Prerequisite:**

You have implemented SAP Note 2421589 - eDocument: AIF Changes for S/4HANA

**Solution**
Perform the manual steps described in the attached document 2523749_Manual_Activities_V02.pdf.

You must perform the mentioned steps in your SAP S/4HANA development system and transport the changes to the subsequent systems (for example quality and production).

You must run the migration program EDOC_COPY_AIF_MSG_INDEX_TAB in each client of every system where entries are available in tables ZEDOAIFIDXREQ and ZEDOAIFIDXRES.

<table>
<thead>
<tr>
<th>Date</th>
<th>Version</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>23.08.2017</td>
<td>1</td>
<td>Released for customers</td>
</tr>
<tr>
<td>06.05.2019</td>
<td>2</td>
<td>Updated attachment</td>
</tr>
<tr>
<td>28.02.2020</td>
<td>3</td>
<td>Updated note and attachment that report must be executed in each system/client</td>
</tr>
</tbody>
</table>

**Other Terms**

EDOC, eDocument Framework, ZEI_EDOC_AIF_RUNTIME_METHODS, ZEI_EDOC_AIF_V1_ACT, ZEDOAIFIDXREQ, ZEDOAIFIDXRES
43. Industry – Cross

43.1 S4TWL - BRIM - Billing of Event Detail Records (EDR)

Application Components: FI-CA-BI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271210</td>
<td>S4TWL - BRIM - Billing of Event Detail Records (EDR)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

EDR Management is used to transfer event detail records (EDR) from an external system, manage the received information and prepare it for billing.

The BRIM solution covers CRM, CI / FI-CA (ERP) and SAP Convergent Charging components/systems. It was developed to charge and bill single events like Toll Collects or downloads. The Event Detail Records solution was replaced by BIT BILLING in 2008.

Business Process related information

No influence on business processes expected. All EDR customers are informed.

Required and Recommended Action(s)

To check if you use EDR Management, call the transaction SE16 and check for entries in the table DFKKBIBILLACC_H.

Ensure that no fields contained in structure FKKBIINVBILL_I_DATA are used directly or indirectly in custom code and/or BRF(+) Implementations to avoid short dumps.
**43.2 S4TWL - BRIM - Common Object Layer (COL)**

Application Components: FI-CA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270317</td>
<td>S4TWL - BRIM - Common Object Layer (COL)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The Common Object Layer Framework (COL framework) can be used to distribute data (e.g. master data, provider contracts) from the SAP CRM System to the SAP Convergent Charging and SAP ERP System. In SAP S/4HANA, on-premise edition the distribution between these systems is done directly, the framework is not provided any more.

The BRIM solution covers CRM, FI-CA (ERP) and SAP Convergent Charging components/systems.

The Common Object Layer was developed in SAP_APPL to provide the technical possibility to distribute master data from ERP to SAP Convergent Charging without using the software component FI-CA. However, no customer used this feature. The BRIM solution is always used with the FI-CA or CI component. Thus, the Common Object Layer is not available in SAP S/4HANA, on-premise edition. The distribution of objects is directly done in the software component FI-CA now.

**Business Process related information**

No influence on business processes expected for customers: the master data distribution still works in SAP S/4HANA, on-premise.

**Required and Recommended Action(s)**
To check if you distribute master data with the help of the COL framework without using the component FI-CA, call the transaction SE16 to check the table BADII/MPL_ENH. Enter "ISX_MD_COL_SCENARIO" and "ISX_MD_COL_ADAPTER" in the field BADI_NAME. Check if there are any entries starting with Z* or Y* in the column BADI_IMPL (BAdI Implementation).

### 43.3 S4TWL - BRIM - Integration with FSCM Biller Direct (FI-CA)

**Application Components:** FI-CA

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271233</td>
<td>S4TWL - BRIM - Integration with FSCM Biller Direct (FI-CA)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With the integration of SAP Contract Accounts Receivable and Payable (FI-CA) with FSCM Biller Direct it is possible to offer end-customers the convenience of receiving invoices, viewing account statuses, and making payments online as a self-service. Integration of FSCM Biller Direct with BRIM/FI-CA is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, “BRIM - Integration with FSCM Biller Direct” can be found under the ID 437.

**Business Process related information**

The functionality Biller Direct with FI-CA is not the target architecture, but still available and can be used within SAP S/4HANA, on-premise edition.

**Required and Recommended Action(s)**

To check if you use FSCM Biller Direct, call the transaction SE16 to check for entries in the table DEBPPEVENTLOG.
Customers are using normally own branded web based portals. SAP therefore alternatively offers APIs which are available with SAP S/4HANA on-premise 2021:

- Managing Contract Accounts
- Managing Provider Contracts
- Managing Documents
- Managing Installment Plans and Promise-2-Pay
- Managing Dispute Cases
- Sending Disconnection and Reconnection Request
- Customer-Self-Services, e.g. payment via credit card or paypal
- Integration with External Collection Agencies
- Integration with External Cash Desks
- Payment List for Business Partner in Contract Accounting
- Invoice List for Business Partner in Contract Accounting

See SAP help portal for more information.

43.4 S4TWL - BRIM - Solution Sales and Billing

Application Components: SD-BIL-IV-CB, FI-CAX

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271236</td>
<td>S4TWL - BRIM - Solution Sales and Billing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The BRIM/Hybris Billing solution covers CRM, CI / FI-CA (ERP) and SAP Convergent Charging components/systems.

The creation of provider contracts starts in CRM. For the integration of provider contracts in SAP Contract Accounts Receivable and Payable, SAP Convergent Invoicing and finally SD Billing with FI-AR, the provider contracts need additional information for the processing in SD. In addition to that, business agreements that are assigned to a
business partner need to be created automatically in the background without replication in CRM. As the follow up processing of CI Billing Documents in SD Billing is currently not available in SAP S/4HANA, on-premise edition, this feature is not provided. Billing and invoicing of consumption data is still possible in FI-CA but not with SD and FI-AR.

In addition, the BRIM SD deployment variant was developed to invoice consumption data also in SD billing with accounting in FI-AR. This solution is currently not available in SAP S/4HANA, on-premise edition. Therefore, the additions on the provider contract with SD Billing relevant data and the background creation of contract accounts in ERP without existing contract accounts in CRM are not required.

UPDATE:

Meanwhile, the integration of CI Billing Documents in SAP Convergent Invoicing into SD Billing is available for S/4HANA in the form of "SAP S/4HANA for Subscription Billing, Sales and Distribution Option 1.0" as part of Hybris Billing. For further details please check note 2347269 - "Release strategy of the ABAP Add-On SOLINVE 800". Therefore, the business function FICAX_SOLESALESBILL has been reenabled and set to customer switchable. For further details check note 2348426 - "Reactivation of Business Function FICAXSOLSALESBILL”.

Required and Recommended Action(s)

To check if you use Solution Sales and Billing, call the transaction SE16 to check for entries in table /SOIN/CI_DOCFLOW.

43.5 S4TWL - BRIM – Immediate Master Data Replication to SAP Convergent Charging

Application Components:FI-CA

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2271238</td>
<td>S4TWL - BRIM – Immediate Master Data Replication to SAP Convergent Charging</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

In SAP S/4HANA, on-premise edition the master data replication from FI-CA to SAP Convergent Charging is only supported as joint replication. For example, master data (business partners, contract accounts, prepaid accounts) is only replicated to SAP Convergent Charging if the data for the related provider contract is received in FI-CA. This means that the master data of business partners, contract accounts and prepaid accounts cannot be replicated immediately and independently of each other to SAP Convergent Charging any more.

Business Process related information

No influence on business process since the master data replication (as Joint Master Data Replication approach) still works in S/4HANA on-premise.

Required and Recommended Action(s)

One of the following business functions needs to be activated:

- FICAX_INV_2G
- ISU_INV_2G
- PSCD_COLLECTIONS_MANAGEMENT_4G
- TEL_INV_2G

Afterwards, the joint master data replication needs to be activated in the IMG customizing under Contract Accounts Receivable and Payable -> Integration -> Convergent Charging -> Activate Joint Replication of All Master Data. For further activities, please refer to the documentation of this IMG activity.

Using an integrated SAP CRM system, you need to activate the joint master data replication in SAP CRM by customizing the distribution schema of your order distribution infrastructure (ODI) accordingly. The step types "Call ERP Message contract activation MCC (PCMA)" and "Call ERP Message Contract Deactivation MCC (PCMD)" need to be used (instead of "Call ERP Message contract activation (PCEA)" and "Call ERP Message contract deactivation (PCED)"). In addition, call the SAP ERP contract update with the correct settings. You can make the relevant settings and define distribution schemas in the customizing for Customer Relationship Management under Cross-Industry Functions -> Provider Order and Contract Management -> Transactions -> Document Distribution -> Define Settings for Document Distribution. Activate the joint replication of master data in SAP ERP according to the corresponding documentation. Maintain the settings that specify how often you can retry locking the contract for the asynchronous status updates from SAP ERP in the customizing for Customer Relationship Management under Cross-Industry Functions -> Provider Order

To check if you use the joint replication of master data, call the transaction SM31 to check the customizing table DFKK_CC_MD_REL for entries and if the flags CCREL and CCSEQUENCE are set. If CCREL is set and CCSEQUENCE is empty, you are not using joint replication and need to take further action. If CCSEQUENCE does not exist, you have to upgrade to at least SAP Enhancement Package 7 (SP08) for SAP ERP 6.0 and then take further action. If both flags are set or both flags are empty, you do not need to do anything. Alternatively to transaction SM31, go to the implementation guide (transaction SPRO) and check the following customizing path: Financial Accounting -> Contract Accounts Receivable and Payable -> Integration -> Convergent Charging -> Activate Replication of Business Partners and Accounts to SAP CC.

Migration from Direct to Joint Master Data Distribution

If you want to migrate to S/4HANA you need to use the joint master data distribution as this is the only replication method which is supported. If you are currently using the direct master data distribution, you need to migrate your existing distribution data before you can activate the joint master data distribution. The migration functionality is available from SAP ERP 6.0 EHP7 SPS14 and SAP ERP 6.0 EHP8 SPS06 onwards. Alternatively, if you are using older support packages, you can install the SAP Notes 2401583 and 2387353.

Once the migration functionality is available in your system, proceed as follows to migrate from the direct to the joint master data distribution:

1. Suspend the master data distribution in SAP CRM before you start with the migration. (That means business partner, business agreement/contract account, prepaid account, provider contract and master agreement creation and changes are not distributed to SAP ERP.)

2. Call up transaction FKKCC_MIG2JOINT in SAP ERP. It consists of three steps but you can also execute the steps independently from each other (in this case, consider the step sequence!):

   (1) Clean-up of distribution records
The same functionality is provided by report RFKK_CC_MD_CLEAN_UP. This step is optional but recommended. By reducing the number of existing distribution records, the migration report will be executed faster.

(2) Creation of rating area assignment and distribution object data

This step is mandatory. It creates rating area assignment records for business partners, contract accounts, and prepaid accounts for rating area SPACE and creates the distribution information for provider contracts. Please note that rating areas with value SPACE are already technically used for the joint master data replication although the functionality of rating areas (multiple SAP Convergent Charging instances) might not be active yet.

(3) Adaptation of distribution records

This step is mandatory. All existing distribution records of business partners, contract accounts, and prepaid accounts that are not marked as obsolete will be adapted to the joint master data distribution. In addition, if no rating area assignment exists for those objects up to this point, it will be created. In this step, errors can be thrown if the object to be processed is currently locked by another process. In this case, you need to execute this step again when the object lock is removed so that everything is properly migrated to the joint master data distribution.

Make sure that no errors are shown in the application log of the transaction. Execute the transaction again until all errors of the affected step are resolved.

3. Activate the joint master data distribution in SAP CRM and SAP ERP.

4. Resume the master data distribution of business partners, business agreements/contract accounts, prepaid accounts, provider contracts, and master agreements in SAP CRM.

Note:

If erroneously distributed provider contracts still exist in SAP CRM from the direct master data distribution, you can resolve this by choosing “Cancel Activation …and Return to Order Processing” in the ODI distribution monitor. Afterwards, you can submit the order once again. Then, the distribution will be done by using the joint master data distribution.
44. Industry Banking

44.1 S4TWL - Business User integration of BPs with user name and personal number

Application Components: FS-BP

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2900607</td>
<td>Simplification Item S4TWL - Business User integration of Business Partners with user name and personnel number</td>
</tr>
</tbody>
</table>

Symptom

You execute a system conversion to S/4HANA, On-Premise-Edition 1909 or higher. In S/4HANA the fields "user name" (XUBNAME) and "personnel number" (PERS_NR) from table BP001 of the Financial Services enhancement of the SAP Business Partner are not available. The corresponding information needs to be retrieved from HR. Because of this a business partner, in which one of the two fields is not initial, needs to get connected to an HR person during the system conversion. This note describes activities that need to be executed in the source system before conversion in order to ensure a smooth conversion process and correct assignment between business partner, HR person and user name.

Reason and Prerequisites

The fields BP001-XUBNAME and BP001-PERS_NR are not available any more in S/4HANA. Applications that have accessed these fields need to access the corresponding HR tables now, for example via CDS view I_BUSINESSUSER. This is ensured by the corresponding applications in separate notes. To make sure that this access is successful the corresponding bps need to be connected to an HR person or, in case HR is not active in your system, to the corresponding object in the FIORI app to maintain employees. This will happen during the system conversion and will only work without error if some preconditions are fulfilled. These pre-conditions need to be checked before the upgrade and will be integrated into the simplification item check.

Solution

Procedure for determining the relevance
The check only needs to be executed for a business partner if there is at least one entry in table BP001 for this business partner that contains a non-initial value in one of the fields XUBNAME or PERS_NR.

**Check details**

A check class will be integrated into the Simplification Item Check Report /SDF/RC_CHECK_START. Technically this class is delivered with note 2907836. This class checks if all pre-conditions are fulfilled so that the integration of the corresponding BPs into HR or HR app are met. In case of errors the migration to S/4HANA can be started only after these errors have been solved.

The following checks are executed centrally in all clients of your system (apart from 000 and 066) and per client for all business partners that were found by the above condition:

I. Generic checks (independent if HR is active or not):

1. For each business partner found in BP001 an entry in the header table BUT000 must exist.
   [This check is a pre-caution as we had few customers with this kind of inconsistency in the past]
2. The corresponding business partner needs to be a person (partner category 1).
3. The corresponding business partner needs to be assigned to a role with role category "Employee" (role category BUP003 in table TB003 - can be maintained via view V_TB003 in transaction SM30).
4. In case there is an entry in table USR21 for the user name from BP001-XUBNAME, the following conditions dependent on field USR21-IDADTYPE must be fulfilled:
   IDADTYPE 00: The GUID value in USR21-BPPPERSON must be initial
   IDADTYPE 01 and 03: This IDADTYPE must not be assigned
   IDADTYPE 02 and 04: The GUID in USR21-BPPPERSON must not be initial and must be equal to the PARTNER_GUID in table BUT000 for the corresponding business partner.
5. The user name (BP001-XUBNAME) and personnel number (BP001-PERS_NR) of the corresponding business partner must not be assigned to several business partners.

II. Additional checks for the case that HR is not active:

1. If BP001-XUBNAME is not initial: A central person for the business partner number with assigned user name exists in HR table HRP1001 and the user name needs to be identical to BP001-XUBNAME.
2. If BP001-XUBNAME is not initial: A central person for the business partner user name exists in HR table HRP1001 and the business partner assigned to this central person must be identical to BP001-PARTNER.
III. Additional checks for the case that HR is active:

1. If BP001-PERS_NR is not initial: the value in field PERS_NR must be numeric and have a maximum length of 8 digits
2. The business partner must be assigned to a central person in table HRP1001 via business partner number in field SOBID (and values SCLAS = 'BP', RSIGN = 'B', RELAT = '207' and the corresponding plan variant - field PLVAR - from table T77S0 for the client)
3. A central person for the business partner with assigned personnel number must exist in table HRP1001 and the personal number needs to be identical to BP001-PERS_NR.
4. The central person assigned to the bp needs to have an entry in HR table PA0105 and the personnel number needs to be identical to BP001-PERS_NR
5. If BP001-PERS_NR is not initial: For this PERS_NR exactly one central person must exist in table HRP1001 which is assigned to the same business partner, and for this PERS_NR a user name in table PA0105 must exist with the same user name as in BP001-XUBNAME
6. If BP001-XUBNAME is not initial: An entry for this user name needs to exist in table PA0105 with the same PERS_NR and the user name needs to be identical to BP001-XUBNAME, and for this user a central person in table HRP1001 needs to exist with the same personnel number assigned to the same business partner.

In all cases an error is returned when the condition is not met

Necessary activities in case of errors from the check class

The check class CLS4SIC_FSBP_BP001_HR is provided by SAP and integrated into report /SDF/RC_START_CHECK. This means that the relevance check can be started via this report. Further activities are only necessary in case the check class returns at least one error. These activities are described in the following:

I. Generic checks

1. In case no BUT000 entry exists for a BP001-entry: execute report FS_BP_DELETE_ORPHANED_DATASETS in the affected client to delete orphaned BP001 entries.
2. Business partner is not of category "Person" (bp category 1): For such business partners you need to delete the two fields from table BP001.
3. Role employee is not assigned to the relevant bps: If this check returns an error you need to create a role with role category "employee" (BUP003) for this bp in table BUT100. In the simple case you can use role BUP003. Mass creation of role BUP003 or a custom role can be achieved using transaction MASS for object type
BUS1006 (Business Partner). Alternatively create a small report in customer name space and call BAPI_BUPA_ROLE_ADD_2 in it.

4. Inconsistencies in table USR21: You need to correct the concerned entries from table USR21 in the following way:
   IDADTYPE 00: delete the GUID value in field USR21-BPPERSON
   IDADTYPE 01 and 03: delete the complete entry from table USR21
   IDADTYPE 02 and 04: enter the entry from BUT000-PARTNER_GUID in field USR21-BPPERSON

5. The same user name or the same personnel number is assigned to several business partners: check the assignments and adapt them in a way that every user name and personnel number is only assigned once in table BP001.

II. Additional checks in case HR is not active:

1. If BP001-XUBNAME is not initial: Make sure that a central person for the business partner number with assigned user name exists in HR table HRP1001 and the user name in HRP1001 is identical to BP001-XUBNAME.
2. If BP001-XUBNAME is not initial: Make sure that a central person for the business partner user name exists in HR table HRP1001 and the business partner assigned to this central person is identical to BP001-PARTNER.

III. Additional checks in case HR is active:

1. If BP001-PERS_NR is not initial: make sure that the value in field PERS_NR is numeric and has a maximum length of 8 digits or delete the field BP001-PERS_NR for this business partner.
2. Create a central person for this business partner in table HRP1001 via business partner number in field SOBID (and values SCLAS = 'BP', RSIGN = 'B', RELAT = '207' and the corresponding plan variant - field PLVAR - from table T77S0 for the client)
3. Assign the personnel number from BP001-PERS_NR to corresponding field of the central person entry in table HRP1001.
4. Create an entry in table PA0105 for the central person and make sure that the personnel number is identical to BP001-PERS_NR.
5. If BP001-PERS_NR is not initial: Make sure that for this PERS_NR exactly one central person exists in table HRP1001 which is assigned to the same business partner, and for this PERS_NR a user name in table PA0105 exists with the same user name as in BP001-XUBNAME.
6. If BP001-XUBNAME is not initial: Make sure that an entry for this user name exists in table PA0105 with the same PERS_NR in which the user name is identical to BP001-XUBNAME, and for this user a central person in table HRP1001 exists with the same personnel number assigned to the same business partner.
Further actions some time after the conversion

After the conversion all entries in the two fields BP001-PERS_NR and BP001-XUBNAME (including the flags BP001-HR_ORG_FLAG and BP001-STAFF_GRP need to be deleted.

Before you do this you should wait some time in order to be sure that the user name and personal number are fetched correctly from HR or the HR app by the applications.

The deletion should be done at the latest, before you start planning the next upgrade to a higher release level of S/4HANA.

Other Terms

SAP Business for Financial Services, Business Partner, SAP BP, FSBP, BP001, user, user name, personal number, XUBNAME, PERS_NR, HR Integration

44.2 S4TWL - FSBP Table Additional Partner Numbers (BPID001) obsolete

Application Components:FS-BP

Related Notes:

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<th>Note Description</th>
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<td>Business Impact</td>
<td>3004812</td>
<td>S4TWL - FSBP table Additional Partner Numbers (BPID001) is obsolete</td>
</tr>
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</table>

Symptom

You execute a system conversion from ERP to S/4HANA or an upgrade from a lower S/4HANA release to a higher one (2021 or higher).

From S/4HANA 2021 onwards the Financial Services Business Partner table Additional Partner Numbers (table name BPID001) is obsolete. The data of this table have to be migrated to table BUT0ID. This note describes activities that have to be executed in order to perform the migration in the source system before the conversion.

Reason and Prerequisites

Financial Services Business Partner table Additional Partner Numbers (BPID001) must not be used any more from S/4HANA 2021 onwards. The table is very similar to the central business partner table Identification Numbers (BUT0ID), therefore the table the
migration into the Identification Numbers table BUT0ID which was optional up to now will be enforced now.

Solution

Procedure for determining the relevance

The migration needs to be executed as soon as there is at least one entry in table BPID001 in any of the clients of your system apart from 000 and 066.

There will also be a consistency check class that is triggered by the SUM process. SUM process will be stopped if there are data in table BPID001 in one of the clients.

Required and recommended actions

In case there are entries in table BPID001 these need to be migrated to table BUT0ID and deleted afterwards.

In SAP note 1556353 you can find a detailed description what needs to be done to execute this migration.

The main steps are the following:

1. Creation of a mapping for customizing (BPID001 -> BUT0ID)
2. BADI implementation in case of customer-specific enhancement in table BPID001
3. Activation of business function CA_FSBP_MIGRATION_ID (creates new customizing entries in table BUT0ID)
4. Migration of BPID001 data to BUT0ID table (including migration of change documents)

The migration is implemented via the ASU toolbox. This means that you will be guided through the whole process supported by the system after starting ASU toolbox. For details how to start this guided process please check note 1556353 and the referenced note 1000009.

Other Terms

SAP Business for Financial Services, Business Partner, SAP BP, FSBP, BPID001, Additional Partner Numbers, BUT0ID, Identification Numbers
44.3 S4TWL - SEM Banking

Application Components: IS-B-SA, IS-B-PA, IS-B-DP, IS-B-RA

Related Notes:

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<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270318</td>
<td>S4TWL - SEM Banking</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The SEM Banking functionality is not included in SAP S/4HANA.

Larger parts of the SEM Banking functionality have already been replaced by the Bank Analyzer (part of the Banking platform "Banking Services from SAP") or other applications, but it's important to note there are still functions, which have no successor.

A technical disablement of SEM Banking was done as follows:

- The SEM Banking menu was disabled (hidden)
- The SEM Banking IMG was disabled (hidden)
- Central SEM Banking transactions will terminate with an "A-message"

It's not allowed to execute SEM Banking transactions anymore.

Business Process related information

The whole SEM Banking application with its parts "Datapool", "Profit Analyzer", "Risk Analyzer" and "Strategy Analyzer" won't be offered in the context of SAP S/4HANA.

| Transaction not available in SAP S/4HANA | All SEM Banking related transaction codes for "Datapool", "Profit Analyzer", "Risk Analyzer" and "Strategy Analyzer". |
Required and Recommended Action(s)

Users of SEM Banking have to evaluate alternatives to the usage of SEM Banking in SAP S/4HANA systems (e.g. replacement of SEM Banking functionality by the Bank Analyzer or keeping SEM Banking on a separate ERP installation).

Moreover the option to archive (delete) obsolete SEM Banking data (after having switched off SEM Banking and before migrating the system to SAP S/4HANA) should be considered, in order to avoid that unnecessary data is kept in the SAP S/4HANA environment. Possible candidates are Banking operating concerns (as part of the SEM Banking Profit Analyzer) or variable transactions (as part of the SEM Banking Datapool), but please note that a customer-specific analysis is mandatory, in order to ensure that only obsolete data is going to be archived (deleted).

How to Determine Relevancy

There is an active risk management area and / or there is an active Banking operating concern in the system

Related SAP Notes

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>For more details see SAP Note 2211665</th>
</tr>
</thead>
</table>

Other Terms

SEM Banking

44.4 S4TWL - CML-specific functions with regard to collaterals and collateral objects

Application Components: FS-CML

Related Notes:

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<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2369934</td>
<td>S4TWL - CML-specific functions with regard to collaterals and collateral objects</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

FS-CML Consumer and Mortgage Loans: The CML-specific functions with regard to collaterals and collateral objects are **not** available in SAP S/4HANA (including the SAP Simple Finance editions).

(Remark: See also the entry with the subject "Real Estate Classic" in the "Simplification List for SAP S/4HANA, on-premise edition 1511").

Therefore it's **not** allowed to use CML-specific functions with regard to collaterals and collateral objects in the context of SAP S/4HANA (including the SAP Simple Finance editions).

Examples for transactions, which must not be used, are:

- Object Processing (Create, Change and Display) - FNO1, FNO2 and FNO3
- Collateral Value Calculation (Create, Change and Display) - FN61, FN62 and FN63
- Collateral (Create, Change and Display) - FNO5, FNO6 and FNO7

Of course all customizing transactions and settings, which are related to the CML-specific functions with regard to collaterals and collateral objects, must not be used, too.

**Solution**

At this point, it is highly recommended to use the functions of application FS-CMS Collateral Management.

The transition from the CML-specific functions with regard to collaterals and collateral objects to FS-CMS must take place before the transformation to SAP S/4HANA.

In principle such a transition consists of two steps:

- Implementation (i.e. configuration and customizing etc.) of FS-CMS
- Migration of data from FS-CML to FS-CMS

**Other Terms**

RE, Classic, RE-FX Real Estate Management, RE Classic, RE-Classic
Land Register, Land Registry

Business Partner

CML collaterals and collateral objects

44.5 S4TWL - Deprecation of app F3987

Application Components: FI-GL-GL-ADB

Related Notes:

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<thead>
<tr>
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<tr>
<td>Business Impact</td>
<td>3209838</td>
<td>S4TWL - Deprecation of Average Daily Balance Key figure Report App (F3987)</td>
</tr>
</tbody>
</table>

Symptom

You want to use Average Daily Balance Key figure Report app F3987.

Reason and Prerequisites

The Average Daily Balance Key figure Report App will be deprecated in on premise S/4 HANA 2022 and will become obsolete.

We recommend you to switch to the successor app W0166, as soon as possible.

Solution

Description

The Average Daily Balance Key figure Report App will be deprecated in on premise S/4 HANA 2022 and will become obsolete.

We recommend you to switch to the successor app W0166, as soon as possible.

Business process related information

The Average Daily Balance (ADB) is a figure that represents the average balance of an account for a specific period. The app F3987 allows you to calculate ADBs for intra-month dates based on the posting date of FI documents. You can also calculate several
other key figures, such as the year-to-date average balance. This app therefore allows you
to calculate efficiently and accurately the ADB at any point during a year.

With the new app W0166, you can display average daily balances and spot balances. You
can do this for each ledger and all company codes. Using this app, you can add the
measures and dimensions by using drag and drop functions to provide a user-friendly
interface. Also, this allows you to display data in a hierarchical format.

**Required and Recommended Actions**

Anyone using F3987 app should switch to the successor app W0166.

**How to Determine Relevancy**

If you are using F3987 app, this deprecation note is applicable for you.

**Other Terms**

F3987, ADB, ADB Key figure report, ADBKFC
45. Industry Beverage

45.1 S4TWL - IS-Beverage (Excise Duty)

Application Components: SD-SLS.PLL

Related Notes:

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<tr>
<th>Note Type</th>
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<tr>
<td>Business Impact</td>
<td>2531942</td>
<td>IS-Beverage functionality deprecated:</td>
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<tr>
<td></td>
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<td>Excise Duty is unavailable in S4HANA</td>
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</tbody>
</table>

Symptom

The IS-Beverage functionality Excise Duty is unavailable in S4HANA. In 2004 the IS-Beverage solution has been moved to ERP. Some of the functionalities were never available for ERP customers. The functionalities which were never available in ERP as well as some of the later functionalities are deprecated in S4HANA.

Reason and Prerequisites

With the transition from ERP to S/4HANA old Beverage functionalities like Excise Duty will be unavailable.

Solution

For detailed information on how to identify which of your custom code objects might need to be adapted in order to be compatible with SAP S/4HANA, please refer to

- SAP note 2190420

Other Terms

IS-Beverage; S/4HANA; Excise Duty; Deprecation

45.2 S4TWL - IS-Beverage (Sales Returns)

Application Components: MM-IM-ED, SD-BF-EC, SD-SLS.PLL, SD-BF-AC, SD-SLS-RE-SR

Related Notes:
Symptom

In 2004 the IS-Beverage solution has been moved to ERP. Some of the functionalities were never available for ERP customers. The functionalities which were never available in ERP as well as some of the later functionalities are deprecated in S4HANA. The IS-Beverage functionality Sales Returns is unavailable in S4HANA.

For the deprecated IS-Beverage functionality Sales Returns there is the successor Advanced Return Management available.

Reason and Prerequisites

With the transition from ERP to S/4HANA old Beverage functionalities will be unavailable.

Solution

For detailed information on how to identify which of your custom code objects might need to be adapted in order to be compatible with SAP S/4HANA, please refer to

- SAP note 2190420

Other Terms

IS-Beverage; S/4HANA; Sales Returns; Deprication

45.3 S4TWL - IS-Beverage (Pendulum List)

Application Components: SD-BIL-RB-PL

Related Notes:

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<td>Business Impact</td>
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<td>IS-Beverage functionality Sales Returns is unavailable in S4HANA (equivalent exists)</td>
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<tr>
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<td>2531962</td>
<td>IS-Beverage functionality deprecated: Sales Pendulum List is unavailable in S4HANA</td>
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Note Type | Note Number | Note Description                                                                 |
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<td>Business Impact</td>
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<td></td>
<td>2531962</td>
<td>IS-Beverage functionality deprecated: Sales Pendulum List is unavailable in S4HANA</td>
</tr>
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</table>
Symptom

The IS-Beverage functionality Pendulum List is unavailable in S4HANA. In 2004 the IS-Beverage solution has been moved to ERP. Some of the functionalities were never available for ERP customers. The functionalitis which were never available in ERP as well as some of the later functionalities are deprecated in S4HANA.

Reason and Prerequisites

With the transition from ERP to S/4HANA old Beverage functionalities like Pendulum List will be unavailable.

Solution

For detailed information on how to identify which of your custom code objects might need to be adapted in order to be compatible with SAP S/4HANA, please refer to

- SAP note 2190420

Other Terms

IS-Beverage; S/4HANA; Pendulum List; Deprecation
46. Defense & Security

46.1 S4TWL - DFPS eSOA services

Application Components: IS-DFS-OF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<tr>
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<td>S4TWL - eSOA Services for DFPS</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Technology migration

Solution

Description

The enterprise services (eSOA services) for DFPS are not available in SAP S/4HANA. Currently there is no functional equivalent available. Depending on customer requests they may be replaced by OData services in the future.

Business Process related information

The feature of accessing Defense & Security data via eSOA services (Service Definitions and XML name spaces containing *DFPS*) is not available in SAP S/4HANA.

Examples of affected service definitions:

- `/ISDFPS/FUERPMNTASSGMNTUPDRC` - FunctionalUnitERP Maintenance Assignment Update Request Confirmation_In
- `/ISDFPS/FUERPSRVASSGMNTUPDRC` - FunctionalUnitERP Service Offer Update Request Confirmation_In

Required and Recommended Action(s)
Implement Business Scenarios and Business Processes based on the functionality available within SAP S/4HANA.

**How to Determine Relevancy**

The simplification item is **not relevant**, if Enterprise Extension EA-DFP (DefenseForces&PublicSecurity) is **deactivated**. In this case no additional checks are necessary. You can check the status via transactions SFW_BROWSER (Switch Framework Browser) or SFW5 (Switch Framework Customizing).

If Enterprise Extension EA-DFP is active in the SAP Business Suite system, you can check via transactions WSADMIN or SOAMANAGER for activated DFPS eSOA services.

Customers with activated eSOA services for DFPS in Business Suite can execute the system conversion. Nevertheless the functionality is not available within SAP S/4 HANA.

**Other Terms**

eSOA, Enterprise Services, DFPS, Defense Security, Information System Integration Bundle, Item Unique Identification Bundle, FunctionalUnitERP, SecurityServicesUnitERP

**46.2 S4TWL - BI content, Datasources and extractors for DFPS**

Application Components: BW-BCT-DFS-MM, BW-BCT-DFS-OF, BW-BCT-DFS-PM

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Technology migration
Simplification List for SAP S/4HANA 2023 – Initial Shipment and SAP S/4HANA Cloud, 
private Edition 2023 – Initial Shipment

Solution

Description

BI content, Data Sources and Extractors for DFPS are not available in SAP S/4HANA. 
Depending on customer requests they may be replaced by real-time operational reporting 
with SAP S/4HANA Embedded Analytics utilizing Virtual Data Models, and CDS- 
Views in the future.

Business Process related information

BI content based on data sources and extractors for DFPS in the SAP Business Suite is 
not available in SAP S/4HANA.

Required and Recommended Action(s)

Implement Business Scenarios and Business Processes based on the functionality 
available within SAP S/4HANA. 
Start exploring the new possibilities for real-Time operational reporting using SAP 
S/4HANA Analytics which enables key users to create and modify reports, KPIs or any 
other analytical artefacts according to their needs.

How to Determine Relevancy

You can check in the following way whether SAP BW OLTP Sources for DFPS are 
actively used:

- Call transaction SE16N for table ROOSOURCE
- Enter selection criteria APPLNM = IS-DFS-BW (Application Component), and 
OBJVERS = A (active OLTP Source Version)

In case of results being displayed for the selection, active SAP BW OLTP sources for 
DFPS exist.
In this case you may want to check details in transactions RSA2 or RSA5.

Customers with active BI content or data sources for DFPS in Business Suite can execute 
the system conversion.
Nevertheless the functionality is not available within SAP S/4 HANA.

Other Terms

BW, BI, Business Information, Data Sources, Extractors, DFPS, Defense Security
46.3 S4TWL - Integration of DFPS with Investigative Case Management (ICM)

Application Components: IS-DFS-ICM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273299</td>
<td>S4TWL - Integration of DFPS with Investigative Case Management (ICM)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The integration of DFPS with the CRM solution of Investigative Case Management is not available in SAP S/4HANA due to missing customer adoption in the SAP Business Suite. There is no functional equivalent available in SAP S/4HANA.

Business Process related information

The features provided by the activation of Business Function DFPS_ICM_OF are not available in SAP S/4HANA, e.g.

- Necessary *technical prerequisites* for accessing Organizational Flexibility functions from a CRM system for implementing the Investigative Case Management System.
- Display of the assignment of a *case ID* to an operation in the Structures Workbench application.
- Assignment of a position to a force element via the A/B 290 relationship to specify which position is responsible for an operation as the *operation planner*.

Required and Recommended Action(s)

Implement Business Scenarios and Business Processes based on the functionality available within SAP S/4HANA.

How to Determine Relevancy
Check in transaction SFW5, whether Business Function DFPS_ICM_OF is available and has been activated in your existing SAP Business Suite system.

Other Terms

ICM, Investigative Case Management, DFPS, Defense Security

46.4 S4TWL - Integration of DFPS with Environmental Compliance

Application Components: IS-DFS-EHS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273311</td>
<td>S4TWL - Integration of DFPS with Environmental Compliance</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The integration of DFPS with Environmental Compliance is not available in SAP S/4HANA, due to the simplification of the central EH&S solution making Business Function OPS_EC_INTEGRATION (Environmental Compliance Integration in Enterprise Asset Management) obsolete. There is no functional equivalent available in SAP S/4HANA.

Business Process related information

Business function OPS_EC_INTEGRATION, and as a consequence the DFPS-related features provided by the Business Function, are not available in SAP S/4HANA, e.g.

- Distribution of Facility Master Data from Environmental Compliance
- Generation, import and archiving of Checklists (PDF Forms)

Check SAP Note 1161250 for additional information on those topics.

Required and Recommended Action(s)
Implement Business Scenarios and Business Processes based on the functionality available within SAP S/4HANA.

**How to Determine Relevancy**

The simplification item is possibly relevant if Business Function OPS_EC_INTEGRATION (Environmental Compliance Integration in Enterprise Asset Management) is active in your existing SAP Business Suite system.

You can check the status via transactions SFW_BROWSER (Switch Framework Browser) or SFW5 (Switch Framework Customizing).

Customers having Business Function OPS_EC_INTEGRATION switched “ON” in Business Suite can execute the system conversion. Nevertheless the functionality related to the Business Function is not available within SAP S/4 HANA.

Customers not having the Business function switched “ON” in Business Suite cannot activate it after the system conversion to SAP S/4 HANA.

**Other Terms**

Environmental Compliance Health Safety, EHS, EH&S, DFPS, Defense Security

**46.5 S4TWL - Force organization, personnel and sustainment for DFPS**

Application Components: IS-DFS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3018378</td>
<td>S4TWL - Defense Forces &amp; Public Security (DFPS)</td>
</tr>
</tbody>
</table>

**Symptom**

You are using the industry solution Defense Forces & Public Security (DFPS). You are considering a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release. The following SAP S/4HANA simplification item is applicable in this case.

**Solution**

**Description**
Defense Forces & Public Security (DFPS) is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Defense Forces & Public Security (DFPS) can be found under the ID 123 (7017755, SAP Force Organization & Personnel for D&S), 124 (7017756, SAP Force Sustainment for D&S).

This means that you need to migrate from Defense Forces & Public Security (DFPS) to its designated alternative functionality Defense & Security (D&S) before expiry of the compatibility pack license.

**Business Process related information**

A description of functionality in compatibility scope (DFPS) you can find in the S/4HANA Feature Scope Description in section SAP S/4HANA Compatibility Packs > Industries > Public Services > Defense and Security.

A description of the functionality of the alternative solution (D&S) you find in the same document in section SAP S/4HANA LoB Products for specific industries > Public Service > Defense and Security.

**Required and Recommended Action(s)**

As DFPS can be used until the expiry date of the compatibility pack license, it is up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality. Nevertheless, the decision at which point in time this will be done, should be taken early in advance in order to plan accordingly for the migration efforts.

**Other Terms**

47. Industry DIMP - Aerospace & Defense

47.1 S4TWL - Collective Processing Pegging

Application Components: IS-ADEC, IS-ADEC-GPD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270832</td>
<td>S4TWL - Pegging: Collective Processing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, transaction PEG01 *(Pegging: Collective Processing)* and its programs are not available. The old transaction PEG01 is replaced by transaction PEG01N *(A&D GPD Pegging: Collective Processing)*.

Business Process related information

Transaction PEG01 *(Pegging: Collective Processing)* is not available with SAP S/4HANA. Customers need to use transaction PEG01N as the successor transaction.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>Transaction PEG01N (replaced by PEG01N)</th>
</tr>
</thead>
</table>

Required and Recommended Action(s)

Start using transaction PEG01N in SAP S/4HANA and educate the end user.

Related SAP Notes

| Custom code related information          | SAP Note 2200942                        |
47.2 S4TWL - Actual labor and costing

Application Components: IS-ADEC-ALC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2445654</td>
<td>S4TWL - Actual labor and costing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The DIMP Enhancements Actual Labour Costing / Time Recording functionality is not available with SAP S/4HANA.

No further developments are planned in this area.

How to determine relevancy

Following objects are not available with SAP S/4HANA.

<table>
<thead>
<tr>
<th>Transactions not available with SAP S/4HANA</th>
<th>ADAA</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Programs/Reports not available with SAP S/4HANA</th>
<th>AD02PRCE - Program to compute actual labor pricing</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AD02ACTV - Activity allocation conversion</td>
</tr>
<tr>
<td></td>
<td>AD02_HIERARCHY_DETERMINE_PSJ - Project based payment run - get project hierarchy</td>
</tr>
</tbody>
</table>

Required and Recommended Action(s)

No influence on business processes expected.

Eliminate the indicated usages from your customer objects.
47.3 S4TWL - Renovation of Grouping, Pegging and Distribution Functionality

Application Components: IS-ADEC-GPD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Release Restriction</td>
<td>3246460</td>
<td>SAP S/4HANA 2022, Aerospace and Defense : Restriction Note</td>
</tr>
<tr>
<td>Business Impact</td>
<td>2933435</td>
<td>S4TWL - Grouping Pegging Distribution (GPD) in SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You convert your system to SAP S/4HANA and then migrate from SAP S/4HANA Grouping, Pegging, Distribution (GPD) to SAP S/4HANA Project Manufacturing Management and Optimization (PMMO).

A side-by-side approach of SAP S/4HANA GPD and PMMO is not possible. You must migrate your data from GPD to PMMO before using PMMO (unless you use a greenfield approach).

Reason and Prerequisites

GPD is a deprecated component in SAP S/4HANA. This means that it is still supported but will be replaced by the PMMO solution in the long term. The date is not set yet.

This note is relevant if you use GPD in an SAP ECC release or SAP S/4HANA release.

Solution

Description

Project Manufacturing Management and Optimization (PMMO) with the application component LO-PMM is planned to replace the solution Grouping, Pegging, Distribution (GPD) with the application component IS-ADEC-GPD.

PMMO is a standard function in the project-based production environment and is a core application component in SAP S/4HANA Enterprise Management. It contains functions that allocate the individual cost types from grouped stock to the WBS elements that drive demand requirements.
Business Value

The following items in PMMO list the change of existing functions.

With SAP S/4HANA 2020 release:

PMMO offers multiple improvements compared with GPD, including:

- PMMO uses parallel processing in the pegging and distribution programs and code pushdown in the pegging program. Calibration reports are available to aid in determining optimal parameters for the parallel processing.
- Many improvements have been made in PMMO to the application log of pegging and distribution programs with error, information and warning messages.
- The purchase order item schedule lines are tracked for open orders in PMMO in sync with MRP.
- There are material document checks during goods movement for error handling in place of termination messages.
- The goods receipt system date is used instead of the document date or posting date on the stock table.
- For Stock Transport Order (STO), GPD Pegging could only support a maximum of two plants in case of Type-2 grouping, whereas in PMMO Pegging STO parts are not constrained.
- Lower-level granular locking during pegging (the option to not lock during pegging) is also available.
- The excess handling logic was improved by assigning excess to the WBS elements in the group that caused the excess.
- The purchase order number, item number, material number and plant from the pegging assignment is used to fill the corresponding CO posting record (no customer modification is necessary as in GPD).
- The CO posting document number is displayed with a navigation link in the distribution results when executing online.
- Redundant data and aggregates in the distribution of actual costs are eliminated.

The following new functionality were added in PMMO:

- The pegging table has a new data structure that provides component to top-level product information.
- The pegging assignment table includes the “Stock Ownership Group WBS” field to be consistent with the other pegging tables.
- The original goods receipt date is used for the goods issue reversal to maintain First-In First-Out (FIFO).

Additional modernization efforts and flexibility options in PMMO include:
• Classes and methods are provided to enable customers to incorporate custom code in place of BAdIs in GPD.
• There is MRP area support at plant level that is also consistent with SAP S/4HANA.
  o Support for additional goods movement type processes

**With SAP S/4HANA 2021 release:**

PMMO offers multiple improvements compared with GPD, including:

• Support for collective order (or direct production) chain in the pegging table where several planned or production orders form a chain (linked) from top leading order on down including multiple branches
• Support for blocked and restricted stock depending on the MRP configuration setting
• Support for serial number consumption on the component side of the order selecting the replenishment off the stock table that will be consumed on the next higher.
• Support for rounding in pegging based on unit of measure.
• Materials are tracked at the subcontract vendor level like inventory adjustments and scrapping
• During conversion of planned orders to production order, planned order to purchase requisitions, and purchase requisition to purchase orders the pegging records are updated in the pegging table.
• Support for vendor down payments by distributing the down payments cleared to received (in stock) quantities and the remaining to the open (in procurement) quantities.
• Support of costed option of non-valuated stock gains by creating a production order without a header material number.
• PMMO to support MRP configuration include/exclude vendor confirmation and Inbound delivery doc.

The following new functionality are available:

• Production order split to move components from parent order to child order.

Additional modernization efforts and flexibility options in PMMO include:

• A Fiori report that will provide pegging assignments information with associated distributed costs.

**With SAP S/4HANA 2022 release:**

PMMO offers multiple improvements compared with GPD, including:
• Configurable option to record pegging assignment history to track any changes during pegging update run and pegging manual changes.
• Manually adjust pegging assignment entries.
• Prevent distribution of actual costs posting to closed WBS via a configurable option.
• Record pegging and distribution update run header data to PMMO_PEG_HEADER and PMMO_DIS_HEADER tables.

The following new functionality is available:

• Production order split functionality that enables actual cost distribution for split orders between parent and child in product cost controlling.

Additional modernization efforts and flexibility options in PMMO include:

• Current Pegging Assignments Fiori App to analyze the pegging assignment results.
• Pegging Assignments History Fiori App to analyze the pegging assignment history as of a certain date and time.
• Order Actual Cost Rollup Fiori App to get the true actual cost (direct costs only) for PMMO relevant orders.
• Enhancements by using SAP ABAP class events to enhance the standard coding.

**Business Process related information**

There are three major features within PMMO:

• Grouping (provided by Project Systems)
• Pegging Assignment
• Cost Distribution

The PMMO application is designed for multiple industries and costing methods. One or more of the three features may benefit the customers’ business models. The first release is planned for an Engineer-To-Order (ETO) business model that requires all three.

**Pegging**

PMMO Pegging data is tightly aligned with MRP by capturing the “Next Higher Assembly (NHA) Order Number” data and “Top Level Demand” data on each order assignment record. When Project Systems is involved, their WBS element numbers will be captured. The pegging records are the cost mapping information for cost distribution.

**Distribution**
The assignment records are the mapping information for the cost distribution program to push costs to the appropriate destination. This is how costs get expensed to the project which is a Non-Valuated (True Actual) costing method.

Costing scenarios that may see PMMO distribute costs:

1. PMMO-relevant purchase order items from the goods receipt postings and from vendor invoices being posted
2. PMMO-relevant production order costs, such as labor, overheads, and plant stock material costs (non-valuated, such as material master amounts). Also, any costs from purchase order items attached to such production orders.

Migration from GPD

Prerequisite: Current GPD customers (on ECC or Suite on HANA) planning to deploy PMMO would first need to move the data to SAP S/4HANA GPD tables purely for technical purposes only.

- A report-based migration tool is provided as part of PMMO included in SAP S/4HANA.
- The report can be used to migrate SAP S/4HANA GPD data to the new SAP S/4HANA PMMO pegging and distribution tables.
- Customers would be responsible for enhancing the delivered report to migrate custom data fields and tables.

More information can be found here

After GPD to PMMO Migration (and before any new goods movements transactions are posted), pegging results between GPD and PMMO may differ and could result in cost distribution postings differences. These differences can be anticipated due to the improvements in PMMO pegging compared to GPD pegging.

47.3.1 Required and Recommended Action(s)

1) New functionality and enhancements are planned for the PMMO solution according to the SAP roadmap. GPD in SAP S/4HANA will be in maintenance (until a date yet to be decided).

2) PMMO features shipped in the SAP S/4HANA releases and features planned for any future release can be found in the Roadmap Explorer. Based on this information, the customer may decide on the relevant SAP S/4HANA release to move from GPD to PMMO, considering their specific business scope.

3) A Migration report will be provided for moving data from SAP S/4HANA GPD to PMMO.
4) The functionality provided in PMMO in SAP S/4HANA 2020 release is recommended for blueprinting/template development activities in implementation projects. Additional functionality and enhancements (including comparable scope as GPD) is available with PMMO in SAP S/4HANA 2021 release and onwards, which can be implemented as baseline for productive use depending on customer business requirements.

5) It is recommended that new SAP customer (greenfield) implementations start with PMMO.

47.4 S4TWL - Cost Distribution Processing

Application Components: IS-ADEC-GPD, IS-ADEC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270834</td>
<td>S4TWL - Cost Distribution Processing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With SAP S/4HANA, transaction DIS01 (Cost Distribution Processing) and its program are not available. The old transaction DIS01 is replaced by the new transaction DIS01N (GPD Cost Distribution: Collective Processing).

Business Process related information

Transaction DIS01 (Cost Distribution Processing) is not available with SAP S/4HANA. Customers need to use transaction DIS01N as the successor transaction.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>Transaction DIS01 (replaced by DIS01N)</th>
</tr>
</thead>
</table>

Required and Recommended Action(s)

Start using transaction DIS01N in SAP S/4HANA and educate the end user.
Related SAP Notes

| Custom Code related information | SAP Note: 2200942 |

47.5 S4TWL - Manufacturer Part Number

Application Components: IS-ADEC-MPN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2348023</td>
<td>S4TWL - Manufacturer Part Number and its System Conversion to SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

This SAP Note contains business process-related information of system conversion from ECC-DIMP to SAP S/4HANA on MPN.

Solution

Description

The functionality for the Manufacturer Part Number (MPN) is not available in SAP S/4HANA 1511.

Refer to SAP Note 2270836 for more information.

The industry solution for the manufacturer part number is changed technically in SAP S/4HANA 1610.

The newly redesigned solution for Manufacturer Part Number will be available from SAP S/4HANA 1610 onwards.

The below points specify details about the changes at the technical level as well as the changes with respect to configuration of the MPN in SAP S/4HANA 1610:

- Special character '*' , '&' and ',' are not allowed in material number
In S/4HANA it is not allowed to use the following special characters ('*', '&', ',') in the material number. If you have in table MATERIALID in the field MATNR_EXT such characters, the material need to be renamed.

- **Leading space character not allowed in material number**

In S/4HANA it is not allowed to use leading space(s) in the material number. If you have in table MATERIALID in the field MATNR_EXT such entries, the material number conversion will alter the S/4 material number (MATNR_LONG) to have leading '_' characters. Communication in external interfaces in a DIMP LAMA compatibility mode is not affected, as the original MATNR_EXT content remains intact during the conversion.

- **How MPN will be stored and rendered**

In SAP S/4HANA 1610 release, MPN has been technically redesigned. MPN material number will be stored as key(MATNR) in MARA table. Hence conversion exit which was used in earlier releases, is no longer relevant.

MPN Material number is the concatenation of Manufacturing Part number and External Manufacturer separated by the delimiter specified in Logistics - General -- > Interchangeability of Parts -- > Specify Settings for Inventory-Managed MPN.

eg: Manufacturing Part number = 'MPN123' External Manufacturer = 'MANF1'
Delimiter = ':', then the MPN Material number formed will be 'MPN123:MANF1'.

If Manufacturer Part number is a numerical Material number and no manufacturer is specified, then the part number will be suffixed with the delimiter specified in the customizing settings(This behavior is enabled only if lexicographical flag is switched off).

eg: Manufacturer Part number = 1234 and External Manufacturer = '', then MPN Material number formed will be '1234:'.

The above behavior is relevant only if 'Concatenated Material No.' option is selected for the material type of the MPN Material.

- **Concatenation checkbox in material types**

MPN functionality is activated when you select 'Activate Inventory-Managed MPN' in the Customizing. You can reach the new settings using the path: Logistics - General -- > Interchangeability of Parts -- > Specify Settings for Inventory-Managed MPN.

From the SAP S/4HANA 1610 release onwards, Inventory Managed MPN will be created as the material number (MARA-MATNR) itself.
The MPN attributes like MFRPN and EMNFR are maintained in the initial screen of the material master.

These fields are editable only if the following settings are enabled in the 'Material Type' Customizing by following the path: Logistics-General -- Material Master -- Basic Settings -- Material Types -- Define Attributes of Material Types

'Concatenated Material No.' field should be enabled.

For more information related to the settings, refer to the documentation of the field 'Concatenated Material No.'.

- **MPN numbers can no longer be changed once created in SAP S/4HANA**

In the ECC-DIMP systems, MPN number can be maintained as an additional value for the material in the 'Basic Data1' tab as well as in 'Purchasing' view.

With the help of the conversion exit, MPN values were displayed as the material number.

In SAP S/4HANA, this approach is not available due to its shortcoming like performance impact and maintenance effort.

Also with the extension of material field length to 40 characters, it will be possible to use the field for storing the MPN material number.

MPN materials will be stored and displayed as the material number itself. Hence the name of the MPN material cannot be changed once created.

This behavior is enabled only if 'Concatenated Material No.' indicator is enabled in the respective 'Material Type' Customizing.

- **MPN data held in MIGO transaction will not be converted in SAP S/4HANA**

MIGO transaction enables saving of MPN data for a user using the option 'Hold' so that it could be reused later in the application.

During migration to SAP S/4HANA, this MPN data will not be converted.

Hence MPN data thus saved before migration cannot be used in SAP S/4HANA.

Customer needs to maintain the entry again.

- **Non-MPN materials that contain MFRPN (Manufacturer Part Number) will have different behavior in SAP S/4HANA**
In the **ECC-DIMP** system, if the DIMP 'Conversion exit' is activated, then the external material number stored in the table MATERIALID field MATNR_EXT will be displayed instead of the material number. The external material number will be populated in the case of LAMA and MPN.

This behavior is enabled irrespective of the material type. For material type HALB, if the MPN information is maintained in the 'Purchasing' view tab in the material master and 'Conversion exit' is activated from the Customizing, the MPN material will be displayed instead of the generated material number.

In **SAP S/4HANA**, the following behavior is different. If the MPN is activated and concatenation checkbox is enabled in the respective material type Customizing, MPN information maintained in the material master will be displayed and stored as the material number itself. Otherwise the MPN information will behave as a normal attribute of a material.

- **Individual attributes of the material MFRPN (Manufacturer Part Number) and EMNFR (External Manufacturer) should not be updated in SAP S/4HANA**

If the concatenation checkbox is enabled for a material type, then the individual attributes MFRPN and EMNFR should not be updated manually. This will lead to inconsistencies in the master data.

In SAP S/4HANA, MPN material number is derived by concatenating ‘Manufacturing Part Number’ and ‘External Manufacturer’ in the material master. Hence it is restricted to change these MPN attributes once the material is created through the UI as well as SAP-delivered APIs.

This restriction is applicable only if MPN is enabled with the concatenation checkbox in the Customizing.

Customer should ensure that the MPN material name should not get modified in SAP S/4HANA.

- **Following online transaction will not work after system conversion with MPN materials in SAP S/4HANA**

Transactions MM17 and MMCC are not available for MPN materials in SAP S/4HANA.

- **Use of new APIs for interacting with SAP S/4HANA system from non-SAP S/4HANA system during material creation**

While transferring a material created in the non-SAP S/4HANA to SAP S/4HANA system using any API, the RFC-enabled function module MPN01_MATNR_DERIVE
should be called by giving destination as SAP S/4HANA system. This function module will return the MPN material number confirming with the SAP S/4HANA system.

For more information, refer to the documentation of the function module MPN01_MATNR_DERIVE.

- **Report variants will be ignored during migration to SAP S/4HANA**

Screen variants that are created in ECC-DIMP system will be ignored during migration to SAP S/4HANA.

Customer needs to create the variants again in the SAP S/4HANA.

- **Parts Interchangeability in SAP S/4HANA**

The Parts interchangeability functionality earlier part of the ECC-DIMP is now available as part of SAP S/4HANA 1610. The functionality is decoupled from MPN (Manufacturer Part Number) and works without an MPN material.

Additionally the ECC-DIMP fields of vendor master are available as part of business partner fields in SAP S/4HANA 1610.

The Purchasing view of business partner role "FLVN01 Vendor " is enhanced with the Interchangeability tab.

- **Usage of MATERIALID table**

MATERIALID table should not be used any more in the coding. For more information refer the section 'Reference to MATERIALID table' of note 2228241.

- **Web services**

Web services will change incompatibly when conversion exit is used and MPN material without manufacturer is sent. In S/4HANA if the MPN material is numerical and external manufacturer is not mentioned, then the delimiter is added as suffix to the MPN Material number. For eg: MPN Material number, if no external manufacturer is provided, is displayed as shown below:

<table>
<thead>
<tr>
<th>DIMP LAMA</th>
<th>S/4HANA</th>
</tr>
</thead>
<tbody>
<tr>
<td>000123</td>
<td>000123:</td>
</tr>
</tbody>
</table>
Proposed solution for DIMP LAMA anyway relies on BI content modification by the customer (FAQ note 735529 as proposal, BW note 906913)

For S/4HANA connection customer shall adapt this existing modification. Replicate MATERIALID again (we have enhanced this extractor) and add a new transfer rule where needed when he uses the “old” solution

May get a visible difference between MATNR in S/4HANA and in BW for MPN w/o manufacturer

- Deprecated objects

<table>
<thead>
<tr>
<th>Object Type</th>
<th>Object Name</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUNC</td>
<td>MPN01_CHECK_MPN_CONVERSION</td>
<td>It is no longer relevant as there is no conversion done for the MPN Material. MPN Material is stored directly in MARA-MATNR.</td>
</tr>
<tr>
<td>DTEL</td>
<td>MPN_OUTLEN</td>
<td>Use the data element ’OUTPUTLEN’ instead</td>
</tr>
<tr>
<td>MSAG</td>
<td>AD_MPN_MESS</td>
<td>The messages contained in the message class is not relevant. Should you need it, please copy the message to a new message class.</td>
</tr>
<tr>
<td>PROG</td>
<td>FMPN30LCCD</td>
<td>Not relevant. Remove the usage of this include from your code</td>
</tr>
<tr>
<td>PROG</td>
<td>MPNUPGRADE01</td>
<td></td>
</tr>
<tr>
<td>PROG</td>
<td>MPNUPGRADE02</td>
<td></td>
</tr>
<tr>
<td>PROG</td>
<td>MPNUPGRADEDETOP</td>
<td></td>
</tr>
<tr>
<td>PROG</td>
<td>RMPNAFTERUPGRADE</td>
<td></td>
</tr>
<tr>
<td>PROG</td>
<td>RIXPRA_ISAD30</td>
<td></td>
</tr>
<tr>
<td>PROG</td>
<td>RIXPRA_ISAD30_3</td>
<td>Conversions for older release in EHP. No longer relevant</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Refer to the below SAP Notes before performing the system conversion to SAP S/4HANA:

| SAP Notes | 2334012      |
2334008
2270836
2360860

Other Terms
SAP S/4HANA System Conversion, MPN, Manufacturer Part Number, S4_TRANSFORMATION

47.6 S4TWL - Flight Scheduling

Application Components: IS-ADEC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270837</td>
<td>S4TWL - Flight Scheduling</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The DIMP A&D Flight Scheduling solution functionality is not available with SAP S/4HANA.

A&D Flight Scheduling solution was developed, but never released for productive use for customers.

Business Process related information

No influence on business processes expected – no productive use for customer.

Required and Recommended Action(s)

No actions required from the customer side.
Related SAP Notes

| Custom code related information | SAP Note: 2382229 |

### 47.7  S4TWL - Enhancements Actual Labour Costing / Time Recording

**Application Components:** IS-ADEC-ALC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270838</td>
<td>S4TWL - Enhancements Actual Labour Costing / Time Recording</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The DIMP Enhancements Actual Labour Costing / Time Recording functionality is not available with SAP S/4HANA.

No further developments are planned in this area.

**Purpose of function**

Read-only directory traversal in Activity Allocation Conversion IS-ADEC-ALC contains a vulnerability through which an attacker can potentially read arbitrary files on the remote server, possibly disclosing confidential information.

**Business Process related information**

Report 'RAD02_PROJBASED_OP_IT_LIST' is not available in SAP S/4HANA.

No influence on business processes expected.

**Required and Recommended Action(s)**

None
47.8 S4TWL - Enhancements Subcontracting Special Stock Types Not Available

Application Components: IS-ADEC, IS-ADEC-SUB

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270839</td>
<td>S4TWL - Enhancements subcontracting special stock types not available</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

DIMP Enhancements Subcontracting special stock types "SC RTP" (I), "SC Vendor consignment" (J), "Customer Stock" (B), "SCCustomerOrderStock" (F) are not available within SAP S/4HANA 1511.

Business Process related information

No influence on business processes expected

Required and Recommended Action(s)

Knowledge Transfer to the end user about the non availability of the special stocks in SAP S/4HANA 1511.

"Customer Stock" (B) and "SCCustomerOrderStock" (F) will be available from SAP S/4HANA 1610 onwards.

47.9 S4TWL - AECMA SPEC 2000M Military Version

Application Components: IS-ADEC, IS-ADEC-SPC

Related Notes:
### 47.10S4TWL - Obsolete transactions and Enhancements in GPD

**Application Components:** IS-ADEC-GPD

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2445653</td>
<td>S4TWL - Obsolete transactions and enhancements in GPD</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

### Solution

**Description**

Grouping, Pegging, Distribution (GPD) is an enhancement to the standard functions in the project-based production environment.
You can combine material requirements from different work breakdown structures (WBS) elements (across several projects or plants) into one or more grouping WBS elements for common inventory management and material requirements planning (MRP). Therefore, you can achieve greater efficiency and cost savings when procuring material.

The ability to group and plan material requirements across different projects, however, should not be at the expense of good financial monitoring and allocation. GPD also contains functions that allow you to allocate the individual cost types from grouped stock to the original requirements and also to the WBS elements that caused the requirements. Benefits such as optimized lot sizes and resource-related billing help you control project costs.

Following transactions are not available with SAP S/4HANA.

- CANCDIS01 - Transaction for canceling distribution results is not available in SAP S/4HANA. From the functional standpoint, distribution should never be canceled. There is no alternative transaction available for this.
- PEG12 - Transaction is used to execute pegging for only one grouping WBS element that participated in the group to group transfer. Old pegging transaction (PEG01) is no longer available with SAP S/4HANA.

New pegging transaction (PEG01N) in SAP S/4HANA doesn't support the above mentioned functionality with one WBS element and all the grouping WBS's participating in the group to group transfer are considered.

There is no alternative transaction available to the above mentioned obsolete functionality.

- PEG13/PEG15 - New pegging transaction(PEG01N) doesn't consider gathering replenishment objects in to scope. And this makes the transactions PEG13 and PEG15 in the SAP S/4HANA obsolete. There is no alternative transactions for this functionality.

How to Determine Relevancy

The entries in the table 'PEG_TASS' indicates the usage of the functionality by the customer and this business impact note is relevant.

The below described objects related to GPD are no longer available in SAP S4HANA.

<table>
<thead>
<tr>
<th>Transactions not available in SAP S/4HANA</th>
<th>CANCDIS01 - Collective Processing Distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEG12 - Filling of Pegging Worklist</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>BADI</th>
<th>Alternative Enhancement Spot</th>
<th>Alternative BADI Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADI_GPD_02</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_SURPLUS</td>
</tr>
<tr>
<td>BADI_GPD_03</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_SCRAP</td>
</tr>
<tr>
<td>BADI_GPD_04</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_LOST</td>
</tr>
<tr>
<td>BADI_GPD_05</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_ADJ_BEFORE_COMPL</td>
</tr>
<tr>
<td>BADI_GPD_06</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_BREAKPOINT</td>
</tr>
<tr>
<td>BADI_GPD_07</td>
<td>ES_BADI_GPD_DISTRIBUTION</td>
<td>BADI_GPD_DIS_ADJUST_COST_CASH</td>
</tr>
<tr>
<td>BADI_GPD_09</td>
<td>ES_BADI_GPD_DISTRIBUTION</td>
<td>BADI_GPD_DIS_BEFORE_DB_UPDATE</td>
</tr>
<tr>
<td>BADI_GPD_11</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_FIXING_RULE</td>
</tr>
<tr>
<td>BADI_GPD_12</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_SURPLUS</td>
</tr>
<tr>
<td>BADI_GPD_14</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_SCRAP</td>
</tr>
</tbody>
</table>

**Business Add-Ins not available in SAP S/4HANA**

<table>
<thead>
<tr>
<th>BADI</th>
<th>Alternative Enhancement Spot</th>
<th>Alternative BADI Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADI_GPD_02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_04</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_05</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_06</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_07</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BADI_GPD_14</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

Following enhancement spots can be used as an alternative to the above specified BADI's.
<table>
<thead>
<tr>
<th>BADI_GPD_15</th>
<th>ES_BADI_GPD_PEGGING</th>
<th>BADI_GPD_PEG_LOST</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADI_GPD_17</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_ADJ_BEFORE_COMPL</td>
</tr>
<tr>
<td>BADI_GPD_18</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_TECO_LOGIC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>BADI_GPD_PEG_CUST_DATA</td>
</tr>
<tr>
<td>BADI_GPD_19</td>
<td>ES_BADI_GPD_PEGGING</td>
<td>BADI_GPD_PEG_MAT_GRP_SEGM</td>
</tr>
</tbody>
</table>
48. Industry DIMP – Automotive

48.1 S4TWL - Vehicle search using SAP TREX as external search engine


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2456102</td>
<td>S4TWL - Vehicle search using SAP TREX or Live Cache technology</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Solution

Description

The automotive industry solution in SAP ERP Discrete Industries & Mill Products (ECC-DIMP) includes an integration of SAP TREX as an external search engine or Live Cache technology for the search of vehicles by various criteria including vehicle configuration as part of the Vehicle Management System (VMS) in order to meet performance needs.

SAP S/4HANA provides an embedded search based on SAP HANA to meet performance requirements also in high volume scenarios which makes the replication of vehicle data to external search engines like SAP TREX obsolete.

The integration to SAP TREX as external search engine is not available with SAP S/4HANA.

Business Process related information
The vehicle search in VMS using either SAP TREX as external search engine or Live Cache technology is not supported with SAP S/4HANA.

The embedded search for vehicle based on SAP HANA allows a complete, fast and extendable search also for large number of vehicles right away without data replication to an external search engine.

**How to Determine Relevancy**

The Simplification Item is relevant, if:

- a Search Engine Service had been maintained for Business Object VMSVEHICLE (table COM_SE_BUSOBJ)
- a LiveCache connection had been maintained (table VLC_DBCONSTATUS)

**Required and Recommended Action(s)**

Delete scheduled background jobs for program COM_SE_DISPATCHER for business object VMSVEHICLE to avoid unnecessary look up for object changes to be pushed to SAP TREX.

Delete all entries from table COM_SE_CPOINTER corresponding to object type VMSVEHICLE containing the delta changes to be pushed to SAP TREX.

**Other Terms**

Automotive, ECC-DIMP, S4HANA, VMS, TREX, LC

**48.2 S4TWL - Handling Unit Management - Obsolete Transactions**

Application Components: IS-A-HUM, LO-HU

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2633572</td>
<td>S4TWL - Handling Unit Management - Obsolete Transactions</td>
</tr>
</tbody>
</table>
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Reason: Conversion from SAP ERP to SAP S/4HANA.

Prerequisite: Business Function Set DIMP for Discrete Industries and Mill Products or Business Function Set DIMP_PS for Discrete Industries / Mill Products and Public Services not active in SAP ERP

**Solution**

**Description**

1. The usage of transaction COWBPACK is no longer allowed; error message VHUAP 037 is raised indicating that this transaction is obsolete and transactions COP1 or COP2 should be used instead.

2. The usage of transaction HUP1 is no longer allowed; error message VHUAP 039 is raised indicating that this transaction is obsolete and transactions MFP1 or MFP2 should be used instead.

Both transactions COWBPACK and HUP1 have been set to obsolete already from SAP R/3 4.6B and therefore also in SAP ERP by the industry solution for automotive as part of industry solutions for Discrete Industries and Mill Products (see also SAP Note 362626). Only customers who did not install or activate these industry solutions could still use these transactions in SAP ERP. As the industry solutions for Discrete Industries and Mill Products are always active in SAP S/4HANA, these replacements now affect also customers who are doing a system conversion from SAP ERP without these industry solutions activated before.

**Business Process related information**

1. Create handling units in production with shop-floor manufacturing

With transaction COWBPACK, you could create handling units based on a production order from shop-floor manufacturing. For packaging specification determination, additional sales and distribution related data could be specified.

With the following transactions, you have additional features to create handling units based on production orders with respect to their usage for sales and shipping, and/or with respect whether the handling units should be created as planned or directly as physical existent:
With transaction COP21, handling units could be created without reference to any sales and distribution document. That is similar to the usage of transaction COWBPACK, if you do not specify any additional sales and distribution related information for packaging instruction determination.

With transaction COP22, handling units could be created for assignment to a sales order or sales scheduling agreement. Sales and distribution related information from the specified sales document are used for packaging instruction determination. The handling units created with reference to the sales document are associated to that document for delivery processing. Transaction VL10HU lists the associated handing units to the sales document due for delivery creation, and assigns them when processing the delivery creation.

With transaction COP23, handling units could be created for assignment to an open outbound delivery. Sales and distribution related information from the specified delivery document are used for packaging instruction determination. The handling units created are linked to that delivery document.

With transaction COP24, handling units could be created for assignment to a stock transfer order or stock transfer scheduling agreement. Stock transfer / distribution related information from the specified document are used for packaging instruction determination. The handling units created with reference to that stock transfer document are associated to that document for delivery processing. Transaction VL10HU lists the associated handing units to that stock transfer document due for delivery creation, and assigns them when processing the delivery creation.

With transaction COP2, there is a general transaction combining the features from transactions COP21, COP22, COP23 and COP24.

For creating planned handling units instead of physically existent ones, the corresponding transactions COP1, COP11, COP12, COP13, COP14 and COPP1 are available.

For more details, refer to the product assistance of SAP S/4HANA: [https://help.sap.com/viewer/15f6005df5a343d096f63b554e47e14a/6.18.10/en-US/a3e8c353b677b44ce10000000a174cb4.html](https://help.sap.com/viewer/15f6005df5a343d096f63b554e47e14a/6.18.10/en-US/a3e8c353b677b44ce10000000a174cb4.html)

Create handling units in production with repetitive manufacturing

With transaction HUP1, you could create handling units based on a planned order from repetitive manufacturing. Transaction MFP21 is a direct replacement of that transaction.

With additional transactions, you have the choice for additional features to create handling units based on repetitive manufacturing orders with respect to their usage for
sales and shipping, and/or with respect whether the handling units should be created as planned or directly as physical existent:

- With transaction MFP21, handling units could be created without reference to any sales and distribution document. That is similar to the usage of transaction COWBPACK, if you do not specify any additional sales and distribution related information for packaging instruction determination.
- With transaction MFP22, handling units could be created for assignment to a sales order or sales scheduling agreement. Sales and distribution related information from the specified sales document are used for packaging instruction determination. The handling units created with reference to the sales document are associated to that document for delivery processing. Transaction VL10HU lists the associated handing units to the sales document due for delivery creation, and assigns them when processing the delivery creation.
- With transaction MFP23, handling units could be created for assignment to an open outbound delivery. Sales and distribution related information from the specified delivery document are used for packaging instruction determination. The handling units created are linked to that delivery document.
- With transaction MFP24, handling units could be created for assignment to a stock transfer order or stock transfer scheduling agreement. Stock transfer / distribution related information from the specified document are used for packaging instruction determination. The handling units created with reference to that stock transfer document are associated to that document for delivery processing. Transaction VL10HU lists the associated handing units to that stock transfer document due for delivery creation, and assigns them when processing the delivery creation.
- With transaction MFP2, there is a general transaction combining the features from transactions MFP21, MFP22, MFP23 and MFP24
- With transaction MFPP2, handling units for due sales orders, stock transfer order or open deliveries could be create
- For creating planned handling units instead of physically existent ones, the corresponding transactions MFP1, MFP11, MFP12, MFP13, MFP14 and MFPP1 are available

For more details, refer to the product assistance of SAP S/4HANA: https://help.sap.com/viewer/15f6005df5a343d096f63b554e47e14a/6.18.10/en-US/cae8c353b677b44ce10000000a174cb4.html

**How to Determine Relevancy**

The Simplification Item is relevant, if:
• The Business Function DIMP_SDUD is not active (check with transaction SFW2 or SFW_BROWSER), and
• Transaction COWBPACK or HUP1 have been used so far for creating handling units

**Required and recommended action(s)**

Change the business process as follows:

Switch to the transactions recommended as replacement for the obsolete transactions. Use transaction COP21 (or any other COP* transaction mentioned above) instead of transaction COWBPACK and/or use transaction MFP21 (or any other MFP* transaction mentioned above) instead of transaction HUP1.

No further configuration for automatic packing is needed if you just use transaction COP21 (or COP22, COP23, COP24, COPP2) instead of transaction COWBPACK, as both use packing transaction profile 0010.
No further configuration for automatic packing is needed if you just use transaction MFP21 (or MFP22, MFP23, MFP24, MFPP2) instead of transaction HUP1, as both use packing transaction profile 0008.

Only in case you would like to create planned handling units instead with transactions COP1, COP11, COP12, COP13, COP14 and COPP1, you should check packing transaction profile 0015 and adapt it, if needed.
Only in case you would like to create planned handling units instead with transactions MFP1, MFP11, MFP12, MFP13, MFP14 and MFPP1, you should check packing transaction profile 0014 and adapt it, if needed.

**Other Terms**

COWBPACK, HUP1, Automatic packing, Automotive, ECC-DIMP, S/4HANA

**48.3 S4TWL - JIT Inbound**

Application Components:IS-A-JIT

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3159740</td>
<td>S4TWL - JIT Inbound</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP to SAP S/4HANA or upgrade to a higher SAP S/4HANA release.

Prerequisite: Business Function Set DIMP for Discrete Industries and Mill Products or Business Function Set DIMP_PS for Discrete Industries / Mill Products and Public Services are active in SAP ERP.

Solution

Description

The functionality of JIT Inbound as part of the automotive industry solution is not the target solution in SAP S/4HANA and therefore deprecated. Even if it is not yet defined when JIT Inbound will become obsolete and be replaced, which means it’s still in maintenance until communicated otherwise, it will receive no new features and innovations. SAP recommends implementing JIT Supply to Customer as the strategic next-generation solution.

Business Process related information

JIT Supply to Customer supports the following key features of JIT Inbound:

- Receive EDI messages to create and update summarized JIT calls and sequenced JIT calls
- Usage of sales scheduling agreements for JIT processing
- Outbound delivery creation based on customer JIT calls
- Action framework, defining
  - allowed actions per internal processing status
  - change of internal processing status by action execution
  - action to be executed based on a change of the external status
  - interlinked actions, combining multiple actions to be processed together subsequently.
- Monitoring of customer JIT calls
- Demand analysis to compare forecast delivery schedules with customer JIT calls
- Stock availability analysis
- JIT delivery schedule creation based on customer JIT calls for improved material requirements planning
• Production release and confirmation with goods movement control, with backflush execution in repetitive manufacturing and stock transfer between storage locations
• Process customer JIT calls by scan/data entry
• Processing reorder JIT calls
• Extensibility options for
  o Processing JIT calls through EDI message
  o definition of custom-specific actions
  o extending SAP standard actions in pre-processing and post-processing
  o Component group determination

JIT Supply to Customer differs from JIT Inbound in the following key features:

• No JIT master data buffers to be refreshed
• Monitoring of EDI messages through Application Integration Framework (AIF)
• Creating and processing of JIT packing groups as own business object
• Processing of JIT delivery confirmations from customers for consumption-based billing or self-billing, using consignment fill-up and issue postings
• Emergency correction of customer JIT calls not yet supported with JIT Supply to Customer
• Forwarding sequenced JIT calls to external suppliers not yet supported with JIT Supply to Customer
• Processing internal calls to sequenced JIT calls not supported with JIT Supply to Customer

In addition, JIT Supply to Customer could be used side-by-side with JIT Inbound for migration purposes, using a conditional switch.

For more details on JIT Supply to Customer, refer to the product assistance of SAP S/4HANA: Link

How to Determine Relevancy

The Simplification Item is relevant, if:

• The Business Function DIMP_SDUD is active (check with transaction SFW2 or SFW_BROWSER), and
• Inbound JIT calls exist (check database table JITHD for entries)

Required and recommended action(s)

When the check item is relevant, there are two alternative options to proceed with the conversion to SAP S/4HANA:
1. Evaluate and implement the next-generation Just-in-Time (JIT) Supply to Customer solution in SAP S/4HANA instead of continuing with JIT Inbound. The implementation of the new solution could be done stepwise using the conditional switch mentioned above, e.g. by plant and customer.

2. Apply for an exemption for this check item and continue with the current JIT Inbound implementation and consider a migration to the JIT Supply to Customer solution at a later point in time.

Other Terms

Just-in-Time, Just-in-Sequence, JIT, JIS, Automotive, ECC-DIMP, S/4HANA

48.4 S4TWL - JIT Outbound

Application Components: IS-A-JIT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3155820</td>
<td>S4TWL - JIT Outbound</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP to SAP S/4HANA or upgrade to a higher SAP S/4HANA release.

Prerequisite: Business Function Set DIMP for Discrete Industries and Mill Products or Business Function Set DIMP_PS for Discrete Industries / Mill Products and Public Services are active in SAP ERP.

Solution

Description

The functionality of JIT Outbound as part of the automotive industry solution is not the target solution in SAP S/4HANA and therefore deprecated. Even if it is not yet defined when JIT Outbound will become obsolete and be replaced, which means it’s still in maintenance until communicated otherwise, it will receive no new features and
innovations. SAP recommends implementing JIT Supply to Production as the strategic next-generation solution.

**Business Process related information**

JIT Supply to Production supports the following key features of JIT Outbound:

- Internal replenishment to a production supply area from a source storage location using summarized JIT calls
- Replenishment to a production supply area from an external supplier using summarized JIT calls
- Manage control cycles for JIT supply to production
- Create JIT calls as replenishment requests manually
- Plan replenishment to production supply areas based on demands from production
- Send JIT calls through EDI messages to external suppliers and other communication partners
- Action framework, defining
  - allowed actions per internal processing status
  - change of internal processing status by action execution
  - interlinked actions, combining multiple actions to be processed together subsequently
- Monitor JIT calls

JIT Supply to Production differs from JIT Outbound in the following key features:

- Internal replenishment to a production supply area from a warehouse managed source storage location is supported with Extended Warehouse Management as the strategic warehouse management solution in SAP S/4HANA. An integration to the classic Warehouse Management, as supported by JIT Outbound, is not available and not planned in future
- Goods receipt processing in external replenishment to a production supply area using summarized JIT calls is supported using Inbound Cargo Registration (ICR) as part of SAP S/4HANA for Manufacturing Logistics.
- Processing forwarded sequenced JIT calls are not yet supported with JIT Supply to Production
- Replenishment of supermarkets close to production lines through demand-driven replenishment planning is supported with JIT Supply to Production, but not with JIT Outbound

For more details on JIT Supply to Production, refer to the product assistance of SAP S/4HANA: [Link](#)
For more details on Inbound Cargo Registration, refer to the product assistance of SAP S/4HANA for Manufacturing Logistics: [Link](#)

**How to Determine Relevancy**

The Simplification Item is relevant, if:

- The Business Function DIMP_SDUD is active (check with transaction SFW2 or SFW_BROWSER), and
- Outbound JIT calls exist (check database table JITOHD for entries)

**Required and recommended action(s)**

When the check item is relevant, there are two alternative options to proceed with the conversion to SAP S/4HANA:

1. Evaluate and implement the next-generation Just-in-Time (JIT) Supply to Production solution in SAP S/4HANA instead of continuing with JIT Outbound
2. Apply for an exemption for this check item and continue with the current JIT Outbound implementation and consider a migration to the JIT Supply to Production solution at a later point in time

**Other Terms**

Just-in-Time, Just-in-Sequence, Supply to Production Planning, JIT, JIS, S2L, Automotive, ECC-DIMP, S/4HANA

**48.5 S4TWL - Self-Billing Cockpit**

Application Components:SD-BIL-IV-SBI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3168667</td>
<td>S4TWL - Self Billing</td>
</tr>
</tbody>
</table>

**Symptom**

You plan to use self-billing with your buyer. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

Self-Billing (SD-SBI-INV) is not strategic, and customers should evaluate the new industry cloud solution SAP Self-Billing Cockpit.

Self-Billing (SD-SBI-INV) is a deprecated component. This means that it is still supported but will be replaced by the SAP Self-Billing Cockpit in the long term. The date is not set yet.

Solution

SAP Self-Billing Cockpit (SD-BIL-SBI) is an industry cloud solution helping suppliers to efficiently process self-billing documents transmitted from the buyer and prepares the documents for the clearing process in accounts receivable.

It enhances efficiency through automated simulation result and combined with SAP Fiori and monitoring capabilities help end users take faster decisions.

SAP Self-Billing Cockpit also supports both Self Billing with Automatic posting (so called “SBWAP” processing) and Self-billing with Invoice creation (so called “SBIINV” processing).

Being an Industry cloud solution SAP Self-Billing Cockpit is aligned with SAP’s strategy and has continuous investment with a well-defined roadmap.

SAP Self Billing Cockpit integrates with S/4 HANA back-end systems S/4HANA Cloud and S/4HANA OP. For prerequisites, please refer to chapter “Relevancy”.

Business Process related information

1. Self-Billing with Automatic Posting (“SBWAP”)

You can only use self-billing with automatic posting for scenarios in which exactly one invoice is created for each outbound delivery. To be specific, no convergence or split of billing data from deliveries can occur during invoice creation.

The following processing flows exist in self-billing with automatic posting:

- Standard processing involving value and quantity
This is the standard type of processing, where the supplier creates billing documents for outbound deliveries. After receiving self-billing documents from the buyer, the system determines the corresponding reference delivery document, and compares the received self-billing documents with the corresponding reference billing documents.

- **Value-based clearing invoice without retroactive billing**

   This type of processing assumes that the transmission explicitly states that it is a clearing invoice, by referring to a transaction that has already been settled. In addition, such transmissions deal exclusively with value changes (for example, retroactive price changes) claimed by the customer (that is, the buyer). Therefore, the received quantity is not considered during value comparison or further processing.

- **Value-based clearing invoice with retroactive billing**

   This type of processing also deals exclusively with value changes (for example, retroactive price changes) claimed by the customer (that is, the buyer), by referring to a transaction that has already been processed and settled.

2. **Self-Billing with Invoice creation (“SBINV”)**

   In some countries or regions, legal requirements dictate that the billing documents that the supplier creates as part of a self-billing process must be identical with the self-billing documents that SAP Self-Billing Cockpit receives in transmissions from the buyer. In this scenario, known as self-billing with invoice creation, the supplier can create the final billing documents only after they have received self-billing documents from the buyer. In self-billing with invoice creation, the buyer can send several self-billing documents for one delivery item. SAP Self-Billing Cockpit continues to create billing documents as the buyer sends them, until the delivery quantity is fully billed.

   The following processing flows exist for self-billing with invoice creation:

   - **Initial invoice creation**

     This type of processing deals with initial invoice creation. After receiving self-billing documents from the buyer, the system determines the corresponding delivery document for reference, and compares the received data with the reference data.

     Based on the comparison results, the system proceeds in one of the following ways:

     - It executes self-billing to trigger the creation of invoices (billing type CIXS) for billing items where there is no difference.
     - It executes self-billing to create a clearing line, in addition to an invoice, for billing items where the transmitted net value differs from the reference net value.
It executes self-billing to create a clearing line and an open line, in addition to an invoice, if the difference exceeds the predefined tolerance limits.

- **Credit or debit memos for quantity corrections**

This type of processing deals with quantity corrections (such as damaged goods during the transport) claimed by the buyer, by referring to a transaction that has already been processed and settled. Therefore, the buyer sends a credit or debit memo for quantity corrections with reference to one or more existing invoices.

During the process, the system compares the claimed net value change against the internal net value change, both of which are calculated based on input such as quantity changes of the settled transaction.

- If they match, the system executes self-billing to trigger the creation of a credit memo (billing type CIXG) or debit memo (billing type CIXL) exactly as the buyer has prepared it.
- If they don't match, the system creates a credit or debit memo and a clearing line, as well as an open line if the difference exceeds the predefined tolerance limit.

- **Credit or debit memos for retroactive price changes**

This type of processing is like the previous one except that it deals with retroactive price changes. Therefore, the system compares the claimed net value change against the internal retroactive billing value, which is calculated in your system based on input such as price changes of the settled transaction.

For more details, refer to the product assistance of SAP Self-Billing Cockpit – [Link](#)

**Relevancy**

The Simplification is relevant for

1. Self-Billing with Automated posting (SBWAP) – If the table TRNSM has content.
2. Self-billing with Invoice creation (SBINV) - If content exist when the field MESTYP is filtered with value SBINV and GSVERF in the table EDIDC

SAP Self-Billing Cockpit is compatible along with below mentioned S/4HANA OP releases

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Valid from S/4HANA OP release</th>
</tr>
</thead>
<tbody>
<tr>
<td>SBWAP</td>
<td>OP2020_FPS1</td>
</tr>
<tr>
<td>SBWAP retro-billing feature</td>
<td>OP2020_FPS2</td>
</tr>
</tbody>
</table>
* For integration with SAP ERP EHP8 a service offering will be made available soon.

**SAP Self-Billing Cockpit Solution Benefits and Business capabilities**

**Solution Benefits**

- Gain full visibility with one central overview page
- Catch issues easily with an intuitive UI
- Enhance efficiency through automated result simulation
- Reduce errors through automated processing
- Gain early insights through error analysis
- Mass change capabilities help you save time

**Capabilities**

- Intuitive User Interface
- Two transactions (SBWAP + SBINV) are combined in one central overview page, multiple legal requirements in one solution are supported
- Automatic result simulation capability
- Mass change capabilities in case of errors in self-billing documents
- Option to take notes on status or required action
- Archiving of transmission
- Manual change of Tax code in SBINV

**Required and Recommended Action(s)**

- New functionality and enhancements are planned for Industry cloud application SAP Self-Billing Cockpit according to the SAP roadmap. Self-Billing (SD-SBI-INV) in SAP S/4HANA will be in maintenance (until a date yet to be decided).
- SAP Self-Billing Cockpit features included in the previous and planned for any future release can be found in the Roadmap Explorer.
- It is recommended that new SAP customer implementations start with Industry cloud application SAP Self-billing Cockpit.

**More information on SAP Self-Billing Cockpit**

1. [Feature Scope Description of SAP Self-Billing Cockpit](#)
2. [SAP Self-Billing Cockpit in SAP Store](#)
3. [Quick-Start Service for SAP Self-Billing Cockpit](#)
Other Terms


48.6  S4TWL - Sales Scheduling Agreement with TAM processing

Application Components: SD-SLS-OA-SCH

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3192264</td>
<td>S4TWL-Sales Scheduling agreement with Delivery orders (TAM)</td>
</tr>
</tbody>
</table>

Symptom

You plan to use Sales Scheduling agreement with Delivery orders (TAM). The following business impact note is relevant for you.

Reason and Prerequisites

Sales Scheduling agreement with Delivery orders (TAM) is not strategic, and customers should evaluate the next-generation Just-in-Time (JIT) Supply to Customer solution in SAP S/4HANA.

Sales Scheduling agreement with Delivery orders (TAM) is a deprecated component. This means that it is still supported but will be replaced by the next-generation Just-in-Time (JIT) Supply to Customer solution in SAP S/4HANA in the long term. The date is not set yet.

Solution

Scheduling Agreement with delivery orders (TAM) is a special type of Scheduling agreement. The process flow is Sales Scheduling agreement -> Sales order (TAM - Delivery order) -> Delivery -> Invoice.

This process came into existence when Just in Time (JIT) solution was not available. Since next-generation Just-in-Time (JIT) Supply to Customer solution is now part of the standard solution, it is recommended to use that solution with summarized JIT calls instead of TAM.

Business Process related information
“JIT Supply to Customer” is the S/4HANA successor of the SAP ERP “JIT Inbound” solution. For customers using JIT processes it is recommended to use “JIT Supply to Customer” from S/4HANA 2021 onwards as “JIT Inbound” will also be deprecated. For details please refer to note - https://launchpad.support.sap.com/#/notes/3159740

JIT Supply to Customer supports the following key features:

- Receive EDI messages to create and update customer JIT calls
- Usage of sales scheduling agreements for JIT processing
- Outbound delivery creation based on customer JIT calls
- Monitoring of customer JIT calls
- Stock availability analysis
- Demand analysis to compare forecast delivery schedules with customer JIT calls
- JIT delivery schedule creation based on customer JIT calls for improved material requirements planning
- Action framework, defining
  - allowed actions per internal processing status
  - change of internal processing status by action execution
  - action to be executed based on a change of the external status
  - interlinked actions, combining multiple actions to be processed together subsequently.
- Extensibility options for processing JIT calls through EDI message
- Definition of custom-specific actions
- Extending SAP standard actions in pre-processing and post-processing

For more details on JIT Supply to Customer, refer to the product assistance of SAP S/4HANA: Link

Relevancy

The Simplification Item is relevant, if:

- There is any entry for the field AUART in the table VBAK with the value TAM

Required and Recommended Action(s)

- When the check item is relevant, evaluate and implement the next-generation Just-in-Time (JIT) Supply to Customer solution in SAP S/4HANA instead of continuing with Sales Scheduling agreement with Delivery orders (TAM)

Other Terms
Sales Scheduling Agreement with Delivery orders, TAM processing, TAM, Just-in-Time, JIT, Automotive, ECC-DIMP, S/4HANA

48.7 S4TWL - Returnable Packaging Logistics

Application Components: IS-A-RL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3213566</td>
<td>S4TWL - Returnable Packaging Logistics</td>
</tr>
</tbody>
</table>

Symptom

You plan to manage returnable packages with either your vendors or your customers. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Returnable Packaging Logistics (IS-A-RL) is not the target solution in SAP S/4HANA and therefore deprecated. Even if it’s not yet defined when Returnable Packaging Logistics will become obsolete and be replaced, which means it’s still in maintenance until communicated otherwise, but will receive no new features and innovations. SAP recommends implementing the new industry cloud solution SAP Returnable Packaging Management as the strategic next-generation solution.

Solution

SAP Returnable Packaging Management (LO-RL) is an industry cloud solution helping companies to manage the logistics of reusable returnable packaging materials in a supply chain. Reusable packaging materials such as containers, pallets, tanks, and load carriers are used to move products safely and efficiently between business partners. With this product, a packaging manager can determine and plan the exact quantity and location of these reusable materials in the supply chain, thereby minimizing loss, waste, and rental-cost of these packaging materials.

Being an Industry cloud solution SAP Returnable Packaging Management is aligned with SAP’s strategy and has continuous investment with a well-defined roadmap

SAP Returnable Packaging Management integrates with S/4 HANA back-end systems, S/4HANA Cloud and S/4HANA OP. For prerequisites, please refer to chapter “Relevancy”.

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Business Process related information

1. Packaging Logistics

When packaged goods are shipped to a customer or vendor the decrease of the package is automatically captured in a packaging account. When the packages are returned, the increase is posted to the same packaging account. The status of serial-numbered packages can be defined, changed, and tracked individually. Stock in plant is displayed based on storage-location and stock-type. Statements for packaging-accounts showing the movements for a certain time-period can either be created or received and matched.

2. Packaging Planning and Collaboration

Packaging demand can be forecasted based analysis of the historical consumption pattern. Account-levels below reorder-point can be replenished automatically via the creation of a purchase-order in S/4HANA.

3. Returnable Packaging Rentals

The amount for the rental of packages can be calculated for serialized packages and bulk packages.

For more details, refer to the product assistance of SAP Returnable Packaging Management – [Link](#)

Relevancy

The Simplification is relevant if table RLACPOHD (Accounting Posting Header) has any content.

Required and Recommended Action(s)

- New functionality and enhancements are planned for Industry cloud application SAP Returnable Packaging Management to the SAP roadmap. Returnable Packaging Logistics (IS-A-RL) in SAP S/4HANA will be in maintenance until communicated otherwise.
- SAP Returnable Packaging Management features included in the previous and planned for any future release can be found in the [Roadmap Explorer](#).
- It is recommended that new SAP customer implementations start with Industry cloud application SAP Returnable Packaging Management.

More information on SAP Returnable Packaging Management
1. Feature Scope Description of SAP Returnable Packaging Management
2. SAP Returnable Packaging Management in SAP Store

Other Terms

Automotive, ECC-DIMP, S/4HANA, Returnable Logistics, RPM, Returnable Packaging Management

48.8 S4TWL - Tracking Inbound

Application Components: IS-A-TRI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270352</td>
<td>S4TWL - Tracking Inbound</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Solution

Description

The automotive industry solution in SAP ERP Discrete Industries & Mill Products (ECC-DIMP) for tracking of inbound deliveries and shipments is not available with SAP S/4HANA.

To calculate and track the exact time of arrival, the recipient of goods could use the tracking of inbound deliveries and shipments. Event information could be received via EDI message with type TRXSTA and processed with reference to an inbound delivery or inbound shipment. The event location had to be defined as node of a route assigned to the delivery or shipment document. The event time is used then to calculate the expected time of arrival based on the duration information stored with the route for scheduling.
The automotive industry solution for tracking of inbound deliveries and shipments has a low customer adoption rate. With SAP Transportation Management, a much more comprehensive and scalable solution exists.

**Business Process related information**

The industry-specific solution for tracking of inbound deliveries and shipments is not available with SAP S/4HANA.

**How to Determine Relevancy**

The Simplification Item is relevant, if:

- EDI messages of message type TRXSTA have been processed (check for entries with MESTYP = 'TRXSTA' in table EDIDC with transaction SE16)

**Required and Recommended Action(s)**

Evaluate SAP Transportation Management to manage and track shipments and related deliveries before conversion to SAP S/4HANA.

Archive EDI messages of message type TRXSTA before conversion to SAP S/4HANA.

**Related SAP Notes**

| Custom Code Check | SAP Note 2228139 |

**Other Terms**

Automotive, ECC-DIMP, S/4HANA, Tracking

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**48.9 S4TWL - Supplier Workplace**

Application Components:IS-A-SWP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270354</td>
<td>S4TWL - Supplier Workplace</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

**Solution**

**Description**

The Supplier Workplace (SWP) is an early collaboration solution in SAP ERP Discrete Industries & Mill Products (ECC-DIMP), enabling suppliers to access supplier-related data directly from the SAP ERP system of a company in addition or as an alternative to EDI communication. With SWP, the company could allow their suppliers to display purchasing documents and price information, view and confirm scheduling agreement releases, create, change or display inbound deliveries, view goods receipt and settlement information, and returnable packaging account information.

The Supplier Workplace has a low customer adoption rate, is not strategic and the technology used is no longer the target architecture, therefore it will be not available with SAP S/4HANA.

With SAP Ariba and Ariba Networks or SAP Supply Network Collaboration (SNC), there are successors available.

**Business Process related information**

Implementing a successor solution for supplier collaboration will result in a change in the IT system landscape and integration as well as in the business applications used for supplier collaboration.

Not all scenarios covered by SWP are supported by the successor products.

| Transactions not available in SAP S/4HANA | ISAUTO_SICASN1, ISAUTO_SICASN2, ISAUTO_SICASN3, ISAUTO_SICASN4, ISAUTO_SICBC, ISAUTO_SICCO, ISAUTO_SICDDL1, ISAUTO_SICEG, ISAUTO_SICIV, ISAUTO_SICJIT, ISAUTO_SICPDI, ISAUTO_SICPH, ISAUTO_SICPI, ISAUTO_SICRL, ISAUTO_SICRLRD, ISAUTO_SICRPM, ISAUTO_SICSR, ISA_SICALERT, ISA_SICKANBAN, ISI_BCI, ISI_BCO, ISI_POD, ISI_PR, ISIPi_CP, ISIPi_CS, ISIPi_ESP, ISIPi_OEPM, ISIPi_POD, ISIPi_PUL, ISIPi_SM, ISIPi_SUMJIT, ISIPi_TRACK, ISIT_PR, SIC_MA, SIC_MD, ME69 |
How to Determine Relevancy

The Simplification Item is relevant, if:

- The industry switch AM_SWP is active (check with transaction SFW1), and
- Supplier Workplace users have been assigned to vendors (check for entries in table ISAUTOSICVENDTAB with transaction SE16)

Required and Recommended Action(s)

Evaluate SAP Ariba / Ariba Networks or SAP Supply Network Collaboration as successor or alternative solution.

Remove all Supplier Workplace users assigned to vendors from table ISAUTOSICVENDTAB.

Related SAP Notes

<table>
<thead>
<tr>
<th>Pre Check</th>
<th>SAP Note 2326822</th>
</tr>
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<tbody>
<tr>
<td>Custom Code Check</td>
<td>SAP Note 2228218</td>
</tr>
</tbody>
</table>

Other Terms

Automotive, ECC-DIMP, S/4HANA, Supplier Workplace, SWP

48.10S4TWL - External Service Providers

Application Components: IS-A-ESP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270357</td>
<td>S4TWL - External Service Providers</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

**Solution**

**Description**

The automotive industry solution in SAP ERP Discrete Industries & Mill Products (ECC-DIMP) for managing supplier stock at External Service Providers (ESP) is not available in SAP S/4HANA.

The solution had been addressed to companies purchasing direct material from vendors who put the products to stock at an ESP for replenishment to the customer. The stock at the ESP is still owned by the vendor until the supply to the customer who requests a just in time replenishment directly from the ESP to the production.

An EDI message with type STOACT allowed the transmission of the current vendor stock for each product in inventory at the ESP; the inbound processing compared that stock information with the current vendor consignment stock at a defined storage location assigned to the ESP and posted the differences. It was recommended to exclude the ESP storage location from MRP to not consider the vendor's stock into account when planning and creating delivery schedules. For evaluation reasons, the vendor consignment stock at ESP storage locations could be included when defining selection rules for the stock/requirements list.

**Business Process related information**

The automotive solution for managing supplier stock at external service providers (ESP) had a very low adoption rate and is not available in SAP S/4HANA.

Managing vendor consignment stock in general is available in SAP S/4HANA and stock at storage locations could be separated in MRP by defining specific storage location MRP areas.

| Transactions not available in SAP S/4HANA | OESP, ESPLOG, ESPLOGD |
How to Determine Relevancy

The Simplification Item is relevant, if:

- Plant and storage location parameters for ESP processing have been maintained (check for entries in tables ESPPL and ESPST with transaction SE16), and
- EDI messages of message type STOACT have been processed (check for entries with MESTYP = 'STOACT' in table EDIDC with transaction SE16)

Required and Recommended Action(s)

Evaluate a redesign of the affected business process before the conversion to SAP S/4HANA.

Remove all entries in tables ESPPL and ESPST before the conversion to SAP S/4HANA.

Archive all EDI messages of message type STOACT before the conversion to SAP S/4HANA.

Related SAP Notes

| Custom Code Check | SAP Note 2228219 |

Other Terms

Automotive, ECC-DIMP, S4HANA, ESP

48.11S4TWL - Cross-System Transit between Two Plants

Application Components:IS-A-XLO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270358</td>
<td>S4TWL - Cross-System Transit between Two Plants</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Solution

Description

The automotive industry solution for cross-system transit between two plants addressed the need to manage stock in transit between different plants of a company operating in different SAP ERP systems. The goods issue posting at the supplying plant resulted in a goods movement posting to the stock in transit of the receiving plant using a remote function call in the target system. The goods in transit are then managed and valuated automatically by the receiving plant. A goods receipt in the receiving plant then resulted in a transfer posting from the stock in transit to a storage location stock. The automotive industry solution focused especially on the usage of scheduling agreements for procurement between the plants.

That solution had a very low adoption rate and is not available in SAP S/4HANA.

Business Process related information

The automotive industry solution for managing stock in transit for goods transferred between two plants of a company operating in different systems is not available in SAP S/4HANA.

| Transactions not available in S/4HANA | XLOC, XLOR, XLOS |

How to Determine Relevancy

The Simplification Item is relevant, if:

- Purchasing documents exist with document types maintained for cross-system stock in transit (check first for entries in table T161 with XLOKZ <> initial with transaction SE16; use all BSART found in T161 to check for entries in table EKKO with transaction SE16)
• Sales documents exist with schedule lines with movement types for cross-system stock in transit (check for entries with BWART = '6A1', '6A3', '6AA' or '6AC' in table VBEP with transaction SE16)
• The transaction codes XLOC, XLOR or XLOS are used

Required and Recommended Action(s)

Evaluate a redesign of the affected business process before the conversion to SAP S/4HANA.

Archive all purchasing documents with document types maintained for cross-system stock in transit before the conversion to SAP S/4HANA.

Archive all sales documents with the movement types for cross-system stock in transit or remove all related schedule lines before the conversion to SAP S/4HANA.

Related SAP Notes

<table>
<thead>
<tr>
<th>Pre Check</th>
<th>SAP Note 2349033</th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Code Check</td>
<td>SAP Note 2228220</td>
</tr>
</tbody>
</table>

Other Terms

Automotive, ECC-DIMP, S/4HANA, XLO, stock in transit

48.12S4TWL - Long Material Number

Application Components: IS-A-LMN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270396</td>
<td>S4TWL - Long Material Number</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case, if you are using the automotive
industry solution for the long material number in SAP ERP for Discrete Industries & Mill Products.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Prerequisite: Target release is SAP S/4HANA 1610 or subsequent.

Solution

Description

In SAP ERP, the automotive industry solution for the long material number did not extend the material number used as key and reference field in database tables. Instead it provided an additional extended representation of the material number up to 40 characters and a conversion from the 18 characters internal representation to the external representation and vice versa. The external representation has been entered and displayed on user interfaces and has been added to technical interfaces like BAPIs and IDOCs. The solution is activated with business function MGV_LAMA. It had restrictions and with its necessary conversions between an internal and external representation, it is suboptimal from a performance perspective.

In SAP S/4HANA, the material number is natively extended to 40 characters, therefore the automotive industry solution for the long material number is obsolete and will not be supported.

For more information on the material number field length extension in SAP S/4HANA, see SAP Note 2267140.

A conversion to SAP S/4HANA 1511 is not supported; In SAP S/4HANA 1511, the business function MGV_LAMA is set to "Always off".

Business Process related information

The industry solution for long material numbers has been replaced by a natively extended material number, clearly beneficial with regards to simplification, performance and integration.

The industry solution for long material numbers and its replacement by an extended material number requires a database conversion replacing the internal representation of
the material number by the external representation. Not in all cases it will be an identical exchange and not in all cases an exchange might be supported.

Interfaces like BAPIs, IDocs or Webservices had been extended by the industry solution for long material numbers, and they had been extended additionally for the natively extended material number. The interfaces might not provide the material numbers in exactly the same way before and after the conversion. A compatibility mode is provided to support the interface extensions of the industry solution for long material numbers.

For more details on conversion to S/4HANA with respect to long material numbers, refer to SAP Note 2360860.

**How to Determine Relevancy**

The Simplification Item is relevant, if:

- The Business Function MGV_LAMA has been activated (check with transaction SFW2 or SFW_BROWSER).

**Required and Recommended Action(s)**

Consider SAP Note 2384347 for proceeding with the conversion to SAP S/4HANA.

If you are using SAP Master Data Governance (MDG), execute report MDG_HDB_MAT_MIGRATE_LONGTEXT right after migration.

If you are using SAF-T (Standard Audit File for Tax) reporting according to regulations in Portugal and other European countries, refresh the extraction tables after conversion. See SAP Note 2341690 for more information.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Restrictions</th>
<th>SAP Note 2384347</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-Check</td>
<td>SAP Note 2326776</td>
</tr>
<tr>
<td>Custom Code Check</td>
<td>SAP Note 2228241</td>
</tr>
</tbody>
</table>
Other Terms

Automotive, ECC-DIMP, S/4HANA, Long Material Number, LMN, LAMA

48.13S4TWL - Material Version

Application Components: IS-A-LMN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270398</td>
<td>S4TWL - Material Version</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Prerequisite: Target release is SAP S/4HANA 1610 or subsequent.

Solution

Description

The automotive industry solution for material versions in SAP ERP Discrete Industries & Mill Products (ECC-DIMP) is based on the industry solution for the long material number which is activated using the business function MGV_LAMA.

The implementation of the long material number will be fundamentally changed in SAP S/4HANA, and considering the limited functionality and value of the solution for material versions and the very low customer adoption rate, that solution will be not available with SAP S/4HANA.

Features of the material versioning solution in SAP ERP Discrete Industries & Mill Products
When material versioning had been activated in SAP ERP, a version could be created with reference to a non-versioned material (called "header material"). Each version is created as an own material master, uniquely identified by the material number of the header material and its version ID.

The master data maintenance of a material version is controlled by the version type and the logistics switch. The version type specified with each material version created defines which material attributes are version-specific and could be maintained for each version independently (like it is valid for non-versioned material) and which shall be equal for the header material and all its versions. For these attributes, a change will be applied to the header material and all other versions simultaneously.

The logistics switch controls whether logistics-relevant views could be maintained for a material version or not. One reason is to create material versions for documentary reasons like minor changes in drawings etc. Another reason is to use material versions in logistics only in early phases of product development where changes occur often and continue in the mature phases of the lifecycle with the header material only.

Except for the master data maintenance, the only application specifically handling material versions is the BOM explosion from iPPE (Integrated Product and Process Engineering). An iPPE could be maintained just using header materials as components, so new material versions do not require the maintenance of iPPE objects. During BOM explosion, a valid material version with active logistics switch is dynamically determined and the header material replaced by its version if found. The validity for material versions is determined via ECM (Engineering Change Management) which is obligatory for material versions to be used. All other applications do not distinguish between header material and material versions.

A conversion to SAP S/4HANA 1511 is not supported; In SAP S/4HANA 1511, the business function MGV_LAMA is set to "Always off".

**Business Process related information**

The automotive industry solution for material versions is not available with SAP S/4HANA.

Material versions as material master referring to a header material with version ID and version type could not be maintained. Instead, material versions could be maintained as other materials with a material number combining the header material number and the version ID. Version type specific material master maintenance, logistics switch and material version determination during iPPE explosion according to the validity defined in ECM is not supported.
Transactions not available in S/4HANA | MMLS, TCLSVERS, VTCU

How to Determine Relevancy

The Simplification Item is relevant, if:

- The Business Function MGV_LAMA has been activated (check with transaction SFW2), and
- Material versions have been activated (check TMCNV-MVAKT = 'X' with transaction SE16), and
- Material versions have been maintained (check for entries in table MATERIALID, field MATNR_VERS with transaction SE16)

Required and Recommended Action(s)

A conversion of material versions is not supported by the standard conversion tools for long material numbers. Create an incident on application component IS-A-LMN with short text "S4HANA conversion for material versions required" to get support in converting material versions to normal material numbers in SAP S/4HANA.

Related SAP Notes

<table>
<thead>
<tr>
<th>Pre-Check</th>
<th>Custom Code Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP Note 2326776</td>
<td>SAP Note 2228242</td>
</tr>
</tbody>
</table>

Other Terms

Automotive, ECC-DIMP, S/4HANA, Material version, LMN, LAMA

48.14S4TWL - Planning Regular Route Shipments

Application Components: IS-A-TP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270399</td>
<td>S4TWL - Planning Regular Route Shipments</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Solution

Description

The automotive industry solution for planning inbound shipments for regular routes based on route schedules in SAP ERP Discrete Industries & Mill Products (ECC-DIMP) is not available in SAP S/4HANA.

Regular routes like milk-run tours lead to recurrent shipments. Route schedules could be defined as basis for generating these recurrent inbound shipments. Inbound deliveries created based on shipping notifications from suppliers could be directly linked as items to the generated inbound shipments. The inbound shipments could then be used for goods receipt processing collectively for all inbound deliveries shipped together.

Planning regular route shipments has a low customer adoption and is not available in SAP S/4HANA.

With SAP Transportation Management, a new solution for planning, executing and settling shipments is available.

Business Process related information

In SAP S/4HANA, the automotive industry solution for maintaining schedules for regular routes and planning and creating inbound shipments based on route schedules is not available.

| Transactions not available in SAP S/4HANA | VL51A, VL52A, VL53A, VL54A |
How to Determine Relevancy

The Simplification Item is relevant, if:

- Route schedules have been maintained (check for entries in table BORRTTS with transaction SE16)
- Route schedule determination records have been maintained (check for entries in table BORRTFI with transaction SE16)

Required and Recommended Action(s)

Evaluate SAP Transportation Management for planning and scheduling shipments before conversion to SAP S/4HANA.

Remove route schedules and route schedule determination records before conversion to SAP S/4HANA.

Related SAP Notes

| Custom Code Check | SAP Note 2227568 |

Other Terms

Automotive, ECC-DIMP, S/4HANA, Transportation, Regular Routes

48.15S4TWL - BSP based Dealer Portal

Application Components: IS-A-DP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273102</td>
<td>S4TWL - BSP based Dealer Portal</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Solution

Description

The automotive industry solution in SAP ERP Discrete Industries & Mill Products (ECC-DIMP) includes two different Dealer Portals. For simplification reasons, only one Dealer Portal solution is supported in SAP S/4HANA.

The Dealer Portal based on Discrete Industries Web Interface (DIWI) and Business Server Pages (BSP) is not available in SAP S/4HANA.

The successor Web Dynpro based Dealer Portal, introduced with SAP ERP 6.04 and accessible via SAP Netweaver Business Client, is available in SAP S/4HANA.

The Web Dynpro based Dealer Portal allows managing vehicle sales, spare parts procurement, and warranty claim processing in collaboration with dealers.

Business Process related information

The Dealer Portal based on Discrete Industries Web Interface (DIWI) and Business Server Pages is not available with SAP S/4HANA.

The Web Dynpro based Dealer Portal is recommended as successor application.

The user interface changes by the Dealer Portal switch, but the business processes are not affected.

How to Determine Relevancy

The Simplification Item is relevant, if:

- a user to partner mapping for the BSP based Dealer Portal exists (check for entries in database table /SAPDII/CUSPRMAP with transaction SE16), or
- a logical system to RFC destination mapping for the BSP based Dealer Portal exists (check for entries in database table /SAPDII/CSYSRFCM with transaction SE16), or
• a partner to system mapping for the BSP based Dealer Portal exists (check for entries in database table /SAPDII/CPRSYSM with transaction SE16).

**Required and Recommended Action(s)**

In case the conversion to SAP S/4HANA starts from SAP ERP 6.04 (Enhancement Package 4) or higher, the migration to the Web Dynpro based Dealer Portal could be done before the system conversion. Otherwise, the migration to the Web Dynpro based Dealer Portal needs to be done after the system conversion to SAP S/4HANA.

The pre-check will raise an error as long as the settings for the BSP based Dealer Portal, mentioned above to determine the relevancy, are available. Apply for an exemption for that check item after, or remove these settings for the BSP based Dealer Portal if the migration to the Web Dynpro based Dealer Portal could be done before the system conversion.

For migration purposes, move

- the user to partner mapping for the BSP based Dealer Portal to the one for the Web Dynpro based Dealer Portal with transaction DPCOMMON_MAP_U_P
- the logical system to RFC destination mapping for the BSP based Dealer Portal to the one for the Web Dynpro based Dealer Portal with transaction DPCOMMON_MAP_S_R
- the partner to system mapping for the BSP based Dealer Portal to the one for the Web Dynpro based Dealer Portal with transaction DPCOMMON_MAP_P_S

Provide a training for dealer users regarding the Web Dynpro based Dealer Portal.

Enhancements to the BSP based Dealer Portal have to be reimplemented for the Web Dynpro Dealer Portal, if applicable.

**Related SAP Notes**

| Custom Code Check               | SAP Note 2228244 |

**Other Terms**

Automotive, ECC-DIMP, S4HANA, DP, DIWI
48.16S4TWL - Web Dynpro based Dealer Portal

Application Components: IS-A-DP

Related Notes:

<table>
<thead>
<tr>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2352485</td>
<td>S4TWL - Web Dynpro based Dealer Portal</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

Solution

Description

The Web Dynpro based Dealer Portal allows managing vehicle sales, spare parts procurement, and warranty claim processing in collaboration with dealers.

That Dealer Portal solution is not strategic anymore with SAP S/4HANA from a target architecture perspective.

Business Process related information

No alternative or successor solution is available so far, but the target architecture would be based on SAP Hybris Commerce for B2B collaboration with Dealers in combination with SAP Configure, Price and Quote (SAP CPQ), with integration to SAP S/4HANA.

Required and recommended action(s)

Evaluate SAP Hybris Commerce and SAP Configure, Price and Quote for your future business with Dealers.
Other Terms

Automotive, ECC-DIMP, S/4HANA, DP
49. Industry DIMP - EC&O

49.1 S4TWL - Obsolete BAPIs of Bill of Services (BOS)

Application Components: IS-ADEC-BOQ

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2301522</td>
<td>S4TWL - Obsolete BAPIs of Bill of Services (BOS)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA

Solution

Description

Certain BAPIs provided for the Bills of Services functionality are not available in SAP S/4HANA.

Business Process related information

As an alternative, you could use other provided BAPIs for the Bills of Services functionality.

Required and Recommended Action(s)

Check if the BAPIs included in the piece list are used in custom code. If yes, you must adapt the custom code.

Other Terms

/SAPBOQ/SESBAPI, BOS07, EXIT_SAPLBOS20_10, PS_LDB_GETDETAIL, /SAPBOQ/SES_CHANGEBOS
49.2 S4TWL - BOS Cost Transfer to PS removed

Application Components: IS-ADEC-BOQ

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273314</td>
<td>S4TWL - Enhancements IS-ADEC-BOQ Billing of Quantity</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case.

**Reason and Prerequisites**

This note is relevant for you when your start release for the system conversion is an ERP release.

You are using Bill of Services (BOS) functionality part of SAP ERP for Discrete Industries & Mill Products (ECC-DIMP)

**Solution**

**Description:**

In SAP S/4 HANA the Bills of Services (BOS) functionality is available to be used.

Nevertheless be aware that the related functionality is considered to be a Non-Strategic-function.

**Business Process related Information:**

If you use easy cost planning for cost estimation of service lines or easy cost planning for cost estimation of WBS elements functionalities of BOS, then following S/4HANA simplification applies:

- Bills of Services functionality transfer cost to the Project is not available
- IMG activity configure batch processing profile for cost transfer to Project has been removed.
- The transactions BOSPS01 - Online Processing, BOSPS02 - Batch Processing and BOSPS_REV1 - BOS/Project Plan/Actual Revenue are not available
Required and Recommended Action(s)

Consider the note 2267182, Simplification related to Project system, Easy Cost Planning (ECP)

Other Terms

BOS, Cost transfer, BOSPS01, BOSPS02, BOSPS_REV1

49.3 S4TWL - ZDEP ETM CATS package

Application Components: IS-ADEC-ETM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2350332</td>
<td>S4TWL - ZDEP ETM CATS Package</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA transition worklist item is applicable in this case

Reason and Prerequisites

This note is relevant for you when your start release for the system conversion is an ERP release

ETM related SCAT test scripts are not available from SAP S/4HANA 1610 FPS1

Solution

Description:

Transaction SCAT is not available in SAP S/4HANA. Therefore ETM SCAT test cases /SAPCEM/BAL90 and /SAPCEM/BGL91 are replaced with the reports /SAPCEM/BAL90 and /SAPCEM/BGL91 respectively. The package /SAPCEM/CATT is replaced with new package /SAPCEM/CATT_REPORT.

All the other objects in the package /SAPCEM/CATT, other than /SAPCEM/BAL90 and /SAPCEM/BGL91 have no equivalent objects or reports available till SAP S/4HANA 1610 FPS1.
Buisness Process related Information.

Test scripts that were used by the workflow for the ETM solution to enable ETM processes (such as to create an asset or create an ETM catalog with characteristics, create equipment and change PM order) are now replaced with reports or function modules.

Example: In an ERP release, If you try to create an asset and save, a workflow would trigger creation of an equipment, creation of PM order, update of equipment number to asset, update of PM order to an asset, update of PM order in equipment were using SCAT test scripts.

Required and Recommended Action(s)

From SAP S/4HANA 1610 FPS1, The workflow steps that were calling the SCAT test scripts are replaced by the function modules. No actions are required if objects from SCAT test cases or package /SAPCEM/CATT are not part of the custom code.

In case if there are any objects used as part custom code then plan to make necessary changes with the information in the below table.

<table>
<thead>
<tr>
<th>BOR Object</th>
<th>Test script name in ERP release</th>
<th>Test script is replaced by the Function Module in S/4HANA 1610 FPS1</th>
<th>Report Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>J_3GBU1022/AS101</td>
<td>BAPI_FIXEDASSET_CREATE</td>
<td>J_3GRAWFOB01</td>
<td></td>
</tr>
<tr>
<td>J_3GBU1022/AS02</td>
<td>BAPI_FIXEDASSET_CHANGE</td>
<td>J_3GRAWFOB01</td>
<td></td>
</tr>
<tr>
<td>J_3GBU1022/WFIE02</td>
<td>/SAPCEM/ETM_UPDATE_EQUIPMENT</td>
<td>J_3GRAWFOB01</td>
<td></td>
</tr>
<tr>
<td>J_3GEQUI/WFIE02</td>
<td>/SAPCEM/ETM_UPDATE_EQUIPMENT</td>
<td>J_3GRMEQ165</td>
<td></td>
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<tr>
<td>J_3GBU2007/IW32</td>
<td>/SAPCEM/ETM_UPDATE_PM_ORDER</td>
<td>J_3GRIARCH00</td>
<td></td>
</tr>
</tbody>
</table>

Other Terms

/SAPCEM/CATT, /SAPCEM/BAL90, /SAPCEM/BGL91, SCAT, ETM
49.4 S4TWL - ETM General

Application Components: IS-ADEC-ETM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2326777</td>
<td>S4TWL - Equipment and Tools Management (ETM)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA.

**Solution**

**Description**

ETM functionality is available from SAP S/4HANA 1610 release with the possibility of creating ETM master data recipient as a business partner. Customers who used ETM functionality in their earlier ERP releases will have to plan ETM recipient data migration to business partner.

A conversion to SAP S/4HANA 1511 is not supported. In SAP S/4HANA 1511, ETM is not available.

ETM is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, ETM can be found under the ID 119.”

**Business Process Related Information**

There is no change in ETM functionality except the changes to ETM recipient. Nevertheless the related functionality is classified in the simplification list as Non-Strategic-function.

**Required and Recommended Action(s)**
Please consider to convert the ETM recipient related customer master records to business partner records. Refer to the SAP Note 2265093. Ensure that you perform the following pre-requisite steps during conversion of ECC DIMP ETM recipient to Business partner:

1. Perform additional Customizing for ETM recipient:
   a) Create an ETM-specific grouping and assign it to a business partner number range
   b) Assign the ETM-specific grouping to the J3G account group

2. Ensure that the Customizing settings from the Customizing client are copied to the productive client

3. Ensure that the business partner assignment is set to required or optional entry in the customizing transaction OBD2- (As mentioned in steps below)
   a) Choose customer account group J3G
   b) Double-click Sales data in the Field status group box
   c) Double-click Partner usage in the Select Group group box
   d) Set the Business partner assignment as required or an optional entry

**Restrictions:**

Graphical Planning Board Transaction for ETM: As part of the ETM enablement the Graphical Planning Board transaction is as well available via the classic SAP GUI Client. Nevertheless due to technical limitation the Graphical Planning Board transaction is not available as an SAP Fiori Visual Theme for classic applications and SAP Fiori Launchpad.

**Other Terms**

S/4HANA, Simplification List, DIMP, Engineering Constructions & Operations, Recipient, Project site, customer

**49.5 S4TWL - ETM Tables obsolete**

Application Components: IS-ADEC-ETM

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2301533</td>
<td>S4TWL - ETM (Equipment and Tools Management) Tables Obsolete</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA

**Solution**

**Description**

Certain tables in the ETM package are not required anymore. Therefore, these tables are removed. There is no change in functionality.

**Business Process related information**

No change in the process.

**Required and Recommended Action(s)**

No action required.

**Other Terms**

J_3GKALEND, KOTJ001, KOTJ002, KOTJ003, KOTJ0012

**49.6 S4TWL - REAL ESTATE SALES (HOMEBUILDING)**

Application Components: IS-ADEC-HBS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2197116</td>
<td>S4TWL - Real Estate Sales (Homebuilding)</td>
</tr>
</tbody>
</table>
Symptom

The Home Building Solution (HBS) will not be available in SAP S/4HANA.

Reason and Prerequisites

HBS functionality is not available in SAP S/4HANA.

Solution

Before doing a system conversion to SAP S/4HANA, check if HBS functionality was active in your system.

As HBS functionality is not available in SAP S/4HANA, all HBS related data would be lost during conversion. Please ensure that you take necessary steps to backup HBS data.

Objects under ECO_HBS and ECO_HBS_APP switches and objects under DI_HBS and DI_HBS_APP packages will not be available after system conversion.

SAP Note 2343388 gives more detailed information on the objects which will not be available after conversion.

Other Terms

HBS, DI_HBS, DI_HBS_APP

49.7 S4TWL Business Package for Subcontracting (EC&O)

Application Components: EP-PCT-IEC-S

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2389447</td>
<td>S4TWL Business Package for Subcontracting (EC&amp;O)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case

Reason and Prerequisites
Reason: Conversion from SAP ERP for Discrete Industries & Mill Products (ECC-DIMP) to SAP S/4HANA

Solution

Description

The Business Package for Subcontracting (E&C) was available for the general contractors to monitor current, upcoming and overall activities. It provided subcontractors access to the required information. Using the business package (EC_PORTAL), general contractors and subcontractors had the access to role-specific iViews that display the relevant data from multiple SAP ERP sources, including purchase orders, sales orders, and network activities.

Subcontracting portal is not available with SAP S/4HANA. There are successors with SAP Ariba and Ariba Networks.

Business Process Related Information

Implementing the successor solution for subcontract portal will result in the IT system landscape and integration as well as in business applications used for the subcontract portal. Not all scenarios covered by subcontract portal are supported by the successor products.

Required and Recommended Action(S)

Package EC_PORTAL is no longer available in S/4HANA. You must remove the usage of SAP objects from your custom code, as indicated by custom code check.

Other Terms

Enterprise Portal, Business Package for Subcontracting (EC&O), EC_PORTAL, S/4HANA, Simplification List, DIMP
50. Industry DIMP - High Tec

50.1 S4TWL - Manufacturing Execution Systems

Application Components: IS-HT-MES

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2383042</td>
<td>S4TWL - Manufacturer Execution Systems</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Industry Solution High Tech Manufacturing Execution (IS-HT-MES) was an add-on solution developed for High Tech semiconductor manufacturers.

This solution is used to track the semiconductor manufacturing process using process orders, with enhanced capabilities around lot split, lot merge, lot rework, lot genealogy, lot inheritance, lot search and Statistical Process Control (SPC) quality inspection.

Support for IS-HT-MES was made unavailable starting with ECC-DIMP 6.0 EhP4 (see SAP Note 1162438). Similarly, IS-HT-MES is also not available with SAP S/4HANA.

Depending on the customer business process, SAP S/4HANA may address certain of the requirements that were addressed by IS-HT-MES.

Business Process related information

| Transactions not available in SAP S/4HANA                                      |
| /SAPHT/MESCL30 - Batch Characteristic Search                                   |
| /SAPHT/MESZMLG - Batch Genealogy                                              |
| /SAPHT/MESZPRM - Formula parameter dynamic generation                         |
| /SAPHT/SPCZQ02 - QM: SPC Review Control Chart                                 |
50.2 S4TWL - RosettaNet

Application Components: IS-HT-RN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2383076</td>
<td>S4TWL - RosettaNet</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Industry Solution HighTech RosettaNet (IS-HT-RN) was an add-on solution providing and RNIF adapter to support B2B collaboration for the RosettaNet industry standard.

Support for IS-HT-RN was made unavailable starting with ECC-DIMP 6.0 EhP4 (see SAP note 1168556).

Similarly, IS-HT-RN is not available with SAP S/4HANA, and there is no successor functionality available in SAP S/4HANA.

Business Process related information

<table>
<thead>
<tr>
<th>Business Add-Ins not available in SAP S/4HANA</th>
<th>/SAPHT/RN_DUNS - RosettaNet Building Block: DUNS implementation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>/SAPHT/RN_GTIN1 - RosettaNet Building Block: GTIN implementation</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/RN_USER_DUNS - RosettaNet Building Block: DUNS implementation - User exit</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/RN_USER_GTIN - RosettaNet Building Block: GTIN implementation - User exit</td>
</tr>
</tbody>
</table>
50.3 S4TWL - Software License Management

Application Components: IS-HT-SW-LIC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270848</td>
<td>S4TWL - Software License Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Software License Management was part of the IS-HT-SW industry solution.

It supports business processes for licensing software, such as: Software License creation, Version Change processing, Product Bundle creation, Software License pricing.

IS-SW and thus Software License Management capabilities are not available in SAP S/4HANA.

There is currently no functional equivalent available in SAP S/4HANA.

Business Process related information

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>VBSY – Billing Plan Synchronization</th>
</tr>
</thead>
</table>

50.4 S4TWL - Installed Base Management for IS-SW

Application Components: IS-HT-SW-IB

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270849</td>
<td>S4TWL - Installed Base Management for IS-SW</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Installed Base Management was part of the IS-SW industry solution.

It used the SAP Installed Base (IBASE) database to manage software licenses, with capabilities including: business data inheritance, license bump processing, IBASE record splits.

For IS-SW, Installed Base Management capabilities have not been brought in to SAP S/4HANA.

There is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

Business Process related information

| Transaction not available in SAP S/4HANA | PASW - Partner Inheritance Switch |

50.5 S4TWL - Contract Management Enhancements

Application Components: IS-HT-SW-CM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270850</td>
<td>S4TWL - Contract Management Enhancements</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution
Description

Contract Management Enhancements was part of the IS-SW industry solution.

It enhanced standard capabilities for managing contracts, such as: sold-to party eligibility, contract availability period, contract messages, contract assignment, and price protection.

It also provided more of a usability enhancement to manage multiple business partners as part of a contract list.

IS-SW and thus Contract Management Enhancements capabilities have not been brought in to SAP S/4HANA.

There is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

However, some basic contract management capabilities have been moved in to SAP S/4HANA.

Although managing business partners in the contract is done in a different way, e.g., add individual business partners (sold-to parties) versus a contract list.

50.6  S4TWL - Billing Process Enhancements

Application Components: IS-HT-SW-BIL

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270851</td>
<td>S4TWL - Billing Process Enhancements</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Billing Process Enhancements was part of the IS-SW industry solution.

It provided billing plan synchronization and billing plan type determination, specifically to link/synchronize billing plans and with software license orders, e.g., if the software
license order was changed from 10 to 15 users then the previous order would be closed and a new one created/linked.

IS-SW and thus Billing Process Enhancements capabilities are not available with SAP S/4HANA.

There is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

**How to Determine Relevancy**

This note is only relevant if transaction 'VBSY' or program 'ROGBILLS' is being used in your system.

### 50.7 S4TWL - Software Maintenance Processing

Application Components: IS-HT-SW-SMP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270852</td>
<td>S4TWL - Software Maintenance Processing</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Software Maintenance was part of the IS-SW industry solution.

It supports the process of distributing new levels of software code to licensed customers, specifically: maintenance level management (MLM), to distribute maintenance code/corrections/fixes; and Version Change Protection (VCP), to automatically distribute a new software product or version change to licensed customers (providing a new license).

IS-SW and Software Maintenance Processing functionality are not available in SAP S/4HANA.
There is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

**Business Process related information**

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>OK32 - SMP Order Due List</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>OK30 - Software Maintenance Process</td>
</tr>
<tr>
<td></td>
<td>OK36 - SMP Log</td>
</tr>
</tbody>
</table>

**50.8 S4TWL - User Exits in DRM**

Application Components: IS-HT-DRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270853</td>
<td>S4TWL - User Exits in DRM</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Distributor Reseller Management (DRM) was part of the Discrete Industries and Mill Products (DIMP) industry solution.

DRM supports business processes for the distribution and resale of High Tech products, from the perspective of both a High Tech Manufacturer and a Distributor.

It provided capabilities such as ship-and-debit agreements, sell-in and sell-through distribution, drop-shipment to distributor customer, ship-and-debit claims processing, price change and price protection.

“User Exits in DRM” provided specific user-exit enhancements to the core DRM solution.
All of these user exits are Business Add-Ins (BAdIs).

DRM is not available in SAP S/4 HANA and thus “User Exits in DRM” is also not available SAP S/4HANA.

Within SAP Business Suite, DRM had been superseded by the SAP CRM Channel Management for High Tech solution.

SAP Channel Management for High Tech solution is not available with SAP S/4HANA.

### 50.9 S4TWL - Condition Technique in DRM: Rule Configuration

Application Components: IS-HT-DRM

#### Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270855</td>
<td>S4TWL - Condition Technique in DRM: Rule Configuration</td>
</tr>
</tbody>
</table>

#### Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

#### Solution

#### Description

Distributor Reseller Management (DRM) was part of the Discrete Industries and Mill Products (DIMP) industry solution.

DRM supports business processes for the distribution and resale of High-Tech products, from the perspective of both a High-Tech Manufacturer and a Distributor.

It provided capabilities such as ship-and-debit agreements, sell-in and sell-through distribution, drop-shipment to distributor customer, ship-and-debit claims processing, price change and price protection.

“Condition Technique in DRM: Rule Configuration” provided rules configuration enhancements to the core DRM solution, specifically to treat claims differently depending on parameters such as tracking partner, sales area, material, etc.
Within SAP Business Suite, DRM had been superseded by the SAP CRM Channel Management for High Tech solution.

DRM and thus “Condition Technique in DRM: Rule Configuration” have not been brought into SAP S/4HANA.

SAP Channel Management for High Tech is also not available in SAP S/4HANA.

There is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

### 50.10S4TWL - Manufacturer/Supplier Processes

Application Components: IS-HT-DRM

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270856</td>
<td>S4TWL - Manufacturer/Supplier Processes</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Distributor Reseller Management (DRM) was part of the Discrete Industries and Mill Products (DIMP) industry solution.

DRM supports business processes for the distribution and resale of High Tech products, from the perspective of both a High Tech Manufacturer and a Distributor.

It provided capabilities such as ship-and-debit agreements, sell-in and sell-through distribution, drop-shipment to distributor customer, ship-and-debit claims processing, price change and price protection.

“Manufacturer/Supplier Processes” provided the core capabilities for High Tech Manufacturers.
Within SAP Business Suite, DRM had been superseded by the SAP CRM Channel Management for High Tech solution.

DRM and thus “Manufacturer/Supplier Processes” have not been brought into SAP S/4HANA, nor has SAP Channel Management for High Tech been brought into SAP S/4HANA.

Thus, there is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

**Business Process related information**

<table>
<thead>
<tr>
<th>Transactions not available in SAP S/4HANA</th>
<th>DRMPPMS_C - Price Protection (Create Due List)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>DRMPPMS_P - Price Protection (Change/Process Due List)</td>
</tr>
<tr>
<td></td>
<td>DRMPPMS_D - Price Protection (Display Due List)</td>
</tr>
<tr>
<td></td>
<td>DRMPPMS – Price Protection (Background Processing)</td>
</tr>
<tr>
<td></td>
<td>DRMLMMS – Manual Lot Maintenance</td>
</tr>
<tr>
<td></td>
<td>DRMCLMS – Ship-and-Debit</td>
</tr>
<tr>
<td></td>
<td>DRMBUMS – Bill-up</td>
</tr>
<tr>
<td></td>
<td>DRMIRMS – Inventory Reconciliation</td>
</tr>
<tr>
<td></td>
<td>DRMR3MS – SAP Transactions</td>
</tr>
<tr>
<td></td>
<td>DRMSTGMS – DRM Staging Area</td>
</tr>
<tr>
<td></td>
<td>DRMCDMS – Discrepancy in Ship-and-Debit Claims</td>
</tr>
<tr>
<td></td>
<td>DRMMSBUSEM – Business Metrics</td>
</tr>
<tr>
<td></td>
<td>DRMPCMS – Price Protection Correction Report</td>
</tr>
<tr>
<td></td>
<td>DRMPEMS – Partner Validation Report</td>
</tr>
</tbody>
</table>
50.11S4TWL - Distributor/Reseller Processes

Application Components: IS-HT-DRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270858</td>
<td>S4TWL - Distributor/Reseller Processes</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Distributor Reseller Management (DRM) was part of the Discrete Industries and Mill Products (DIMP) industry solution.

DRM supports business processes for the distribution and resale of High Tech products, from the perspective of both a High Tech Manufacturer and a Distributor.

It provided capabilities such as ship-and-debit agreements, sell-in and sell-through distribution, drop-shipment to distributor customer, ship-and-debit claims processing, price change and price protection.

“Distributor/Reseller Processes” provided the core capabilities for HighTech Manufacturers.

Within SAP Business Suite, DRM had been superseded by the SAP CRM Channel Management for High Tech solution.

DRM and thus “Distributor/Reseller Processes” have not been brought into SAP S/4HANA, nor has SAP Channel Management for HighTech been brought into SAP S/4HANA.

Condition Technique in DRM: Rule Configuration is not available in SAP S/4HANA.

Thus, there is no specific, targeted successor solution in SAP S/4HANA for these capabilities.

**Business Process related information**
<table>
<thead>
<tr>
<th>Transactions not available in SAP S/4HANA</th>
<th>/SAPHT/DRMPPDR_C - Price Protection (Create Due List)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>/SAPHT/DRMPPDR_P - Price Protection (Change/Process Due List)</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMPPDR_D - Price Protection (Display Due List)</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMPPDR - Price Protection (Background Processing)</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMCLDR – Ship-and-Debit</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMBUDR – Bill-up</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMR3DR – Transactions Tracking &amp; Processing</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMSTGDR – Processing of Staging Items</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMLMDR – Manual Lot Maintenance</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMIADR – Invalid Ship and Debit Agreements report</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMDRBUSMET – Business Metrics report</td>
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<tr>
<td></td>
<td>/SAPHT/DRMIMRCN – Inventory Management Reconciliation report</td>
</tr>
<tr>
<td></td>
<td>/SAPHT/DRMSLSRPOUT – DRM Sales report</td>
</tr>
</tbody>
</table>
51. Industry DIMP – Mill

51.1 S4TWL - Non ferrous metal processing

Application Components: IS-MP-NF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270403</td>
<td>S4TWL - Non Ferrous Metal Processing</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note.

**Solution**

**Description**

Non Ferrous Metals is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Non Ferrous Metals can be found under the ID 401 (see file S4HANA-CompatibilityScopeMatrix-DETAILS.pdf)

With SAP S/4HANA 2023 it is planned to introduce a CDS view. With this change we plan to move Non Ferrous Metals from status "compatibility scope" to "perpetual scope" of SAP S/4HANA.

**Business Process related information**

The functional scope of Non Ferrous Metal in SAP S/4HANA remains unchanged.

**Required and Recommended Actions**

Before using NFM in S/4HANA the following activities are required:

- NFM field “Exchange key” in transaction „Business Partner“:
  Since SAP S/4HANA, on-premise edition 1511, Customer and Vendor master transactions are combined into new Business Partner transaction "BP”. The Non Ferrous Metals (NFM) field “Exchange key” is not shown in transaction "BP" by
default. In DDIC tables LFM1 [Vendor master record purchasing organization data] and KNVV [Customer Master Sales Data], the “NFM Exchange Key“ field /NFM/BOESL is still available. Re-activation by project development is possible. You can add field “Exchange key” into Transaction “BP” by BadI development. SAP note 2815395 - Enhancement of transaction BP with Non Ferrous Metals (NFM) "exchange key" field

- Metal price quotations:
  If you import metal price quotations from stock exchanges by data feed with transaction TBD4 please read SAP note 2918965 - NFM (Non Ferrous Metal) Datafeed via TBD4 in S4/HANA
- NFM fields in Material master:
  In case the NFM fields in material master are not displayed, please read SAP note 2357870 - SAP S/4HANA: Settings to enable Non Ferrous Metals data in material master

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, Mill Products, Non Ferrous Metals

51.2 S4TWL - Sales Order Versions

Application Components: IS-MP-SD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270405</td>
<td>S4TWL - Sales Order Versions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The special Mill Sales Order Versions function is not available in S/4HANA. For more information, see SAP Note 2226678

Business Process related information
This sales order versions function cannot be used anymore.

**Required and Recommended Action(s)**

**How to Determine Relevancy**

The simplification item is possibly relevant if the Business Function DIMP_SDUD (Discrete Indus. - Mill Products) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP.

The item is relevant if there are any entries in table VSVBUK_CN and VSVBUP_CN. You can use transaction SE16 to verify.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>SAP Note: 2226678</th>
</tr>
</thead>
</table>

**51.3 S4TWL - Stock Overview and Object Search by Characteristics**

**Application Components:** IS-MP-MM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270409</td>
<td>S4TWL - Stock Overview and Object Search by Characteristics</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

This function displays stocks and objects (such as orders) with particular characteristics.

The following Customizing activity is not available in S/4HANA:

**Path:** Materials Management --&gt; Inventory Management and Physical Inventory --&gt; Reporting --&gt; Define Profiles for Selection by Characteristics
Transaction: OMILL_MMCL
S_KM5_93000002   MILL_CUST   IMG Activity: SIMGMPWMM_OMILL_MMCL

The following Customizing activity is available in S/4HANA:

**Path:** Production --> Shop Floor Control --> Master Data à Order à Define Profiles for Selection by Characteristics

Transaction: MILL_MSP
S_KM5_93000002   MILL_CUST   IMG Activity: SIMGMPWMM_OMILL_MMCL

The following transaction is not available in S/4HANA:

**SAP Easy Access Menu:** Logistics --> Material Management --> Inventory Management --> Environment

- Stock
- Stock overview by characteristics

Transaction: MMCL - Stock overview and Object Search by characteristics
MMCL    MILL_BAS    Stock Overview by Characteristics

The transaction MMCL has been replaced with the transaction BMBC (Batch Information Cockpit).

**Business Process related information**

Business Process supported based on BMBC - Batch Information Cockpit can be used to fulfil the requirements.

**Required and Recommended Action(s)**

BMBC - Batch Information Cockpit can be used to fulfil the requirements.

**How to Determine Relevancy**
The simplification item is possibly relevant if the Business Function DIMP_SDUD (Discrete Indus. - Mill Products) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP.

The item is relevant if you are using transaction MMCL.

Related SAP Notes

| Custom Code related information | If you have enhanced MMCL Report (Stock Overview and Object Search by Characteristics), you need to bring the enhancements to the successor transaction BMBC (Batch Information Cockpit) also. For more information, see SAP Note 2226677 |

51.4 S4TWL - Mill specific enhancements to scheduling PRTs

Application Components: IS-MP-PP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270410</td>
<td>S4TWL - Mill specific enhancements to scheduling PRTs</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The mill specific function that enhances the handling of production resources and tools (PRTs) in the context of production orders is not available in SAP S/4HANA.

The customizing activity is not available in S/4HANA: 'Permit Assignment of PRTs to Work Centers', which was under IMG Path: Production -> Shop Floor Control -> Master Data -> Production Resources/Tools.

The following transactions are not available in S/4HANA:
• /SAPMP/TOOL_POOL_CHK - Compare PRT Pool, which was under SAP Easy Access Menu: Logistics -> Production -> Master Data -> Production Resources and Tools.
• /SAPMP/TOOL_REPLACE - Replace PRT in Order, which was under SAP Easy Access Menu: Logistics -> Production -> Shop Floor Control -> Order

**Business Process related information**

The PRT handling is reduced only by scope of these mill features. The special Mill Scheduling PRT functions are not available in SAP S/4HANA.

**How to Determine Relevancy**

The simplification item is possibly relevant if the Business Function DIMP_SDUD (Discrete Indus. - Mill Products) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP.

The item is relevant to you if you are using the transaction /SAPMP/TOOL_REPLACE or /SAPMP/TOOL_POOL_CHK.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2226674 |

**51.5 S4TWL - Process batch**

Application Components: IS-MP-PP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270412</td>
<td>S4TWL - Process Batch</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
The Mill specific Process Batch functionality (see SAP Help for Mill Products -> Enhancements in Production Planning and Control (PP) -> Process Batch) is not available in SAP S/4HANA as the successor core solution WIP Batch (Work in Process Batch) is already available. The process batch is a batch that you create for the production order so that you can document the properties of a material during the production process.

**Business Process related information**

The WIP Batch provides similar functionality of process batch with additional features, but has the limitation in SAP S/4HANA, on-premise edition 1511, that the Mill specific order combination function is not available. As of SAP S/4HANA 1610, WIP Batch is enhanced to support order combination for both production and process orders.

**Required and Recommended Action(s)**

It is required to use/convert to WIP Batch functionality in SAP S/4HANA. Please refer to SAP Note 2326769 for migration from process batch to WIP batch. Please refer to SAP Note 2346054 for information on enhancement to support order combination with WIP Batch.

**How to Determine Relevancy**

The simplification item is possibly relevant if the Business Function DIMP_SDUD (Discrete Indus. - Mill Products) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP

The item is relevant to you if you have been using process batch functionality. You are using process batch functionality if there are valid entries in table MILL_PBWU. You may use transaction SE16 to check.

The item is also relevant to you if you have been using Goods Movements via Mill GI/GR detail screens in transaction CO11N. (see SAP Help for Mill Products -> Enhancements in Production Planning and Control (PP) -> Goods Movements in the Confirmation Transaction).

**51.6 S4TWL - Fast entry of characteristic values in trading contract**

Application Components: IS-MP-LO

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2381873</td>
<td>S4TWL - Fast entry of characteristic values in trading contract</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion from an older release to SAP S/4HANA 1610 or newer. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

As of SAP S/4HANA 1610, the fast entry of characteristic values functionality from tab page 'Fast Data Entry' is merged into Item Overview tab page in trading contract transactions WB21, WB22, and WB23.

Business Process related information

The customer can expect an integrated and unified user interface for display and maintenance of configuration characteristic values of items on the same tab page.

Required and Recommended Actions

If you have been using the functionality prior to SAP S/4HANA 1610 and convert to SAP S/4HANA 1610 or newer releases, you have to note down existing settings before system conversion and apply those settings after conversion in customizing. Please refer to SAP note 2337868.

How to Determine Relevancy

The simplification item is possibly relevant if the Business Function /SAPMP/GEN_CI_1 (Mill, OrderToCash & Global Trade) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP.

The simplification item is relevant if you are using fast entry of characteristic values in trading contract transactions WB21, WB22, WB23. You are likely using the fast entry of characteristic values in trading contract if there are own specific entries for transaction type 'Trading Contract' in customizing step 'Define Application Group for Characteristic Display' and 'Define Characteristics Display for Overview Screen' under IMG “Logistics – General->Global Trade Management->Trading contract->Fast Entry of Characteristics”.


51.7 S4TWL - Selection by characteristics in mass processing of orders

Application Components: IS-MP-PP

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2381891</td>
<td>S4TWL - Selection by characteristics in mass processing of orders</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from an older release to SAP S/4HANA 1610 or newer. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

As of SAP S/4HANA 1610, the feature selection by characteristics in mill specific transaction /SAPMP/PP_COHV is merged into transactions for Mass processing of Production orders (COHV) and Mass Processing of Process Orders (COHVPI).

Business Process related information

The users can make selection of manufacturing orders by characteristics along with other selection criteria of transactions COHV and COHVPI.

Required and Recommended Actions

Customers using transaction /SAPMP/PP_COHV in the past now need to shift to transaction COHV and/or COHVPI instead. Please refer SAP note 2358159.

How to Determine Relevancy

The simplification item is possibly relevant if the Business Function DIMP_SDUD (Discrete Indus. - Mill Products) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP.

The simplification item is relevant if you are using the mill specific transaction /SAPMP/PP_COHV.
51.8 S4TWL - Fast entry of characteristic values in sales document

Application Components: IS-MP-SD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2381843</td>
<td>S4TWL - Fast entry of characteristic values in sales document</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from an older release to SAP S/4HANA 1610 or newer. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

As of SAP S/4HANA 1610, the fast entry of characteristic values functionality from tab page 'Fast data entry' is merged into tab page 'Configuration' in sales document transactions like VA01, VA02, and VA03.

Business Process related information

The customer can expect an integrated and unified user interface for display and maintenance of configuration characteristic values of items on the same tab page.

Required and Recommended Actions

If you have been using the fast entry of characteristic values functionality prior to SAP S/4HANA 1610 and convert to SAP S/4HANA 1610 or newer releases, you have to make the settings in customizing for sales document item configuration. For more information, please refer to SAP note 2319234.

The Configuration Tab can be set via Fcode “UECO” as default entry Tab for the overview screen. The End User will then directly be linked to the Configuration Tab when the transaction is called. The Fcode for the overview screen can be maintained in the "Define Sales Document types" Customizing settings (Transaction VOV8).

How to Determine Relevancy

The simplification item is possibly relevant if the Business Function DIMP_SDUD (Discrete Indus. - Mill Products) is active in your system. You can check its status via transaction SFW_BROWSER (Switch Framework Browser) under object DIMP.
The simplification item is relevant if you are using ‘Fast data entry’ tab page in one or more of the transactions VA01, VA02, VA03, VA11, VA12, VA13, VA21, VA22, VA23, VA41, VA42, VA43. You are likely using the ‘Fast data entry’ tab page if there are own specific entries for transaction type ‘Sales Document’ in customizing step ‘Define Application Group for Characteristic Display’ and Define Characteristics Display for Overview Screen’ under IMG ->Sales and Distribution->Sales Document->Fast Data Entry of Characteristics in Sales Documents.
52. Healthcare (IS-H)

52.1 S4TWL - SAP Patient Management (IS-H) is not available in SAP S/4HANA

Application Components: IS-H

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2689873</td>
<td>SAP S/4HANA: SAP Patient Management (IS-H): Restriction Note</td>
</tr>
</tbody>
</table>

Symptom

You are using SAP S/4HANA, respectively you are planning or running a conversion to SAP S/4HANA.

Reason and Prerequisites

SAP does not plan a conversion from SAP Patient Management (IS-H) to S/4HANA.

Solution

For information on planned successor products refer to [SAP Road Map for Healthcare](#) (scroll down on that page).

Even if the Business Function Set HEALTHCARE is not active and therefore a system conversion to SAP S/4HANA is possible, you must not use any entities in customer specific code belonging to the above mentioned healthcare products (software component IS-H). Usages of such entities are identified by the SAP S/4HANA custom code check in the ABAP Test Cockpit (ATC) with reference to this SAP note.

Also please note, that as of SAP S/4HANA 1809 the majority of the development objects belonging to the above mentioned healthcare products have been deleted from the software stack. The remaining objects, still available in S/4HANA, are subject of future deletions.

Other Terms

IS-H

SAP Patient Management
SAP Ambulatory Care Management

i.s.h.med

Business Function Set HEALTHCARE
53. Industry Insurance

53.1 S4TWL - FS-RI - Deletion of obsolete packages

Application Components: FS-RI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2818762</td>
<td>S4TWL - FS-RI - Deletion of obsolete packages</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

This SAP Note is relevant for you when your start release for the system conversion is an ERP release.

It is not relevant if your start release is S/4HANA Finance or S/4HANA.

Solution

Description

In SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for reinsurance management, packages with development objects that were already obsolete in SAP Reinsurance Management 7.0 have been deleted.

Business Process related information

Effects on business processes depends on the usage of obsolete objects in custom code.

Required and Recommended Action(s)

Check if the obsolete objects in the piece list are used in custom code. If yes, you must adapt the custom code.
Other Terms

COMPAT Packages

53.2 S4TWL - Technical changes to Statutory Reporting Tables

Application Components: FS-SR, FS-SR-DE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2810717</td>
<td>S4TWL - FSSR: Correction index 1 (ISSRFLDEO and ISSRFLDEC)</td>
</tr>
</tbody>
</table>

Symptom

You execute a system conversion in SAP S/4HANA, On Premise edition. The following SAP S/4HANA transition worklist entry is relevant in this case.

Reason and Prerequisites

A change of Index-1 for ISSRFLDEO and ISSRFLDEC to unique is required.

Solution

Description

For the tables mentioned above, there is an index that is not unique. This may lead to duplicate entries that cause terminations in the application.

Required and recommended action(s)

Proceed as described in SAP Note 2771381.

Other Terms

Worklist
53.3 S4TWL - FS-RI - Replacement of msg.PM Connection by SAP Standard

Application Components: XX-PART-MSG-LRM, FS-RI-LRM, FS-RI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2954199</td>
<td>S4TWL - Ersetzen der msg.PM Verbindung durch SAP Standard</td>
</tr>
</tbody>
</table>

Symptom

Sie führen eine Systemkonvertierung in SAP S/4HANA durch. In diesem Fall gilt der folgende Eintrag im Arbeitsvorrat für den Übergang nach SAP S/4HANA.

Reason and Prerequisites

Dieser SAP-Hinweis ist für Sie relevant, wenn Ihr Ausgangsrelease für die Systemkonvertierung ein ERP-Release ist.

Er ist nicht relevant, wenn Ihr Ausgangsrelease SAP S/4HANA Finance oder SAP S/4HANA ist.

Solution

Beschreibung


Geschäftsprozessbezogene Informationen

Die Auswirkungen auf Geschäftsprozesse hängen von der Verwendung der veralteten Objekte ab.

Erforderliche Aktionen

Überprüfen Sie, ob Sie die veralteten Objekte in Gebrauch hatten. Wenn dies der Fall ist, müssen folgende Schritte durchgeführt werden:

1. Es muss die aktuellste CAIMAN-Version (CAIMAN-34140.54) verwendet werden.
Um diese Version verwenden zu können, muss im PM-Customizing die aktuellste Version eingetragen werden.

i. Starten Sie die Transaktion /MSG/4_PM_CUSTOMIZE.
ii. Wählen Sie im Feld Anwendung FS-RI-RML-SRA-PM.
iv. Befüllen Sie das Feld Programm ID mit der aktuellsten CAIMAN-Version (CAIMAN-34140.54).

2. Im PM-Customizing muss die Kundeneinstellung gesetzt werden. Dieser Eintrag wird durch die Conversion geleert.

i. Starten Sie die Transaktion /MSG/4_PM_CUSTOMIZE.
ii. Wählen Sie im Feld Anwendung FS-RI-RML-SRA-PM.
iv. Befüllen Sie das Feld PM mit "msg.PM 3.x".

3. Prüfen Sie im PM-Customizing, dass die Einträge der Request-Destinationen und Monitor-Destiantionen gesetzt wurden.

i. Starten Sie die Transaktion /MSG/4_PM_CUSTOMIZE.
ii. Wählen Sie im Feld Anwendung FS-RI-RML-SRA-PM.
iii. Navigieren Sie nach Konfiguration -> Request-Destinationen.
iv. Prüfen Sie die Einträge:
   - Anwendung: FS-RI-RML-SRA-PM.
   - RFC-Destination: Tragen Sie die RFC-Destination des PM Runtime Servers ein.
vi. Prüfen Sie die Einträge:
   - Anwendung: FS-RI-RML-SRA-PM.
   - RFC-Destination: Tragen Sie die RFC-Destination des PM Runtime Server Monitors ein.

4. Produktdaten müssen neu importiert werden.

i. Starten Sie die Transaktion /MSG/4_PM_CUSTOMIZE.
ii. Wählen Sie im Feld Anwendung FS-RI-RML-SRA-PM.
iii. Navigieren Sie nach Programme -> Produktsammlungs-Import.
iv. Folgende Werte müssen gesetzt werden:
   - RFC-Destination: Tragen Sie Ihre CAIMAN-RFC-Destination ein
   - Auftrag/Aufgabe: Wählen Sie einen geeigneten Transportauftrag aus.
   - Quelle / Datei / Export / Arbeitsbereich / Produktraum: Wählen Sie die Produktsammlung, welche importiert werden soll, aus.
   - Übersetzung: Wählen Sie gegenbenenfalls alle relevanten Sprachen aus.
   - Fehler zu Warnungen konvertieren: Setzen Sie gegebenenfalls die relevanten Häkchen.
Protokolle / Verzeichnis: Falls ein Protokoll lokal gesichert werden soll, setzen Sie das Häkchen und wählen ein Verzeichnis.

v. Drücken Sie auf "Import durchführen".
vi. Prüfen Sie das Ergebnisprotokoll und drücken Sie auf "Freigeben", falls keine Fehler vorhanden sind.

Sollte beim Importieren der Produktdaten ein Fehler bzgl. Positivliste auftreten, geben Sie in der CAIMAN-RFC-Destination unter Anmeldung und Sicherheit folgende Einträge an:

i. Gerufener Funktionsbaustein: /MSG/4_PM_FETCH_EXPORTINFOBYUP
   Callback-Funktionsbaustein: *
ii. Gerufener Funktionsbaustein: /MSG/4_PM_FETCH_INFORMATION
   Callback-Funktionsbaustein: *

Other Terms

- msg.PM
- CAIMAN

53.4 S4TWL - FS-RI - Redesign Data Access Framework

Application Components: FS-RI-LRM, XX-PART-MSG-LRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3054946</td>
<td>S4TWL - Data access framework redesign</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA.

Reason and Prerequisites

This SAP Note is relevant to you if your source release for the system conversion is an ERP release.

It is not relevant if your source release is SAP S/4HANA Finance or SAP S/4HANA.

Solution
Description

Interfaces/classes/methods are adjusted or deleted in SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for Reinsurance Management:

- The following classes for exception calls are not available and have been replaced:
  - /msg/cx_vrj_after_finish_error
  - /msg/cx_vrj_assign_error
  - /msg/cx_vrj_badi_error
  - /msg/cx_vrj_boc
  - /msg/cx_vrj_bo_struct_error
  - /msg/cx_vrj_cmnt_serialisation
  - /msg/cx_vrj_defaults
  - /msg/cx_vrj_illegal_lock_mode
  - /msg/cx_vrj_invalid_change
  - /msg/cx_vrj_not_found
  - /msg/cx_vrj_not_loaded
  - /msg/cx_vrj_no_da_agent_found
  - /msg/cx_vrj_object_freed
  - /msg/cx_vrj_overlapping_vers
  - /msg/cx_vrj_parent_new
  - /msg/cx_vrj_parent_not_loaded
  - /msg/cx_vrj_parent_w_sublvs
  - /msg/cx_vrj_par_not_bound
  - /msg/cx_vrj_state_error
  - /msg/cx_vrj_sublvs_not_loaded
  - /msg/cx_vrj_type_mismatch
  - /msg/cx_vrj_undefined_value
  - /msg/cx_vrj_unknown_rdf_error
  - /msg/cx_vrj_wrong_journal

- The following classes are not available and have been replaced:
  - /msg/cl_vr_acmarket_001
  - /msg/cl_vr_aohd_001
  - /msg/cl_vr_mdtahead_002
  - /msg/cl_vr_mdtahead_006
  - /msg/cl_vr_mdtahead_007
  - /msg/cl_vr_mmovement_002
  - /msg/cl_vr_mmovement_006
  - /msg/cl_vr_mmovement_007
  - /msg/cl_vr_mmovement_009
  - /msg/cl_vr_olife_001
  - /msg/cl_vr_olife_003
  - /msg/cl_vr_opschr_002
  - /msg/cl_vr_opschr_003
  - /msg/cl_vr_opschr_004
• The following methods are not available:
  o inakt_flag (class /MSG/CL_VR_CCOND_002)
  o set_inakt_flag (class /MSG/CL_VR_CCOND_002)
  o inakt_flag (class /MSG/CL_VR_CCOND_003)
  o set_inakt_flag (/MSG/CL_VR_CCOND_003)

• Interface /msg/if_vrj_base
  o The following objects are not available:
    ▪ gvt_object_id (variable)
    ▪ got_changes (object)
    ▪ gst_field (structure)
    ▪ gtt_field_list (table)
    ▪ /msg/if_vrj_core (interface)
    ▪ get_node_by_id (method)
    ▪ diff (method)
    ▪ defaulted_fields (method)
  o The definition of the following method has been adjusted:
    ▪ copy

• Interface /msg/if_vrj_batr_bo
  o The definition of the following methods has been adjusted:
    ▪ load_batchrun
    ▪ finish_batchrun
    ▪ save_batchrun

• Interface /msg/if_vrj_batr_boc
  o The following objects are not available:
    ▪ gvt_sql_param (variable)
  o The definition of the following methods has been adjusted:
- get_aggatran_nodes
- get_closecap_nodes
- get_opencap_nodes
- get_renewal_nodes
- get_reopencap_nodes

- Interface /msg/if_vrj_batr_da
  - The following objects are not available:
    - gvt_effective_ts (variable)
    - gvt_processed_ts (variable)
    - gvt_sql_param (variable)

- Interface /msg/if_vrj_batr_jrnl
  - The following objects are not available:
    - gtt_batchrun_id (table)

- Interface /msg/if_vrj_cross
  - The following objects are not available:
    - gst_sql_param (structure)
    - gst_event_handler (structure)
    - gtt_event_handler (table)
  - The definition of the following methods has been adjusted:
    - select_odelreq

- Interface /msg/if_vrj_cust_da
  - The following objects are not available:
    - /msg/if_v_dev (interface)
    - false (alias)
    - true (alias)
    - bool (alias)
    - gst_rnode (structure)
    - gtt_rnode (table)
    - select_cclrqst (method)
  - The definition of the following methods has been adjusted:
    - select_ccond
    - select_ccestevtra

- Interface /msg/if_vrj_mdt_a_bo
  - The following objects are not available:
    - /msg/if_vrj_core_ndim (interface)
    - got_changes (object)
  - The definition of the following methods has been adjusted:
- `dt_changed`
- `after_save`
- `after_release`
- `load_dt`
- `finish_dt`
- `finish_movement`
- `save_dt`
- `save_movement`

- **Interface /msg/if_vrj_mdta_boc**
  - The following objects are not available:
    - `got_sql_param` (object)
    - `gtt_runid` (table)
    - `gvt_sql_param` (variable)
  - The definition of the following methods has been adjusted:
    - `create_dtahead`
    - `get_dtarun_nodes`
    - `get_dtasum_nodes`
    - `get_movement_nodes`
    - `get_movrun_nodes`
    - `get_nullval_nodes`

- **Interface /msg/if_vrj_mdta_da**
  - The following objects are not available:
    - `gst_sql_param` (structure)
    - `gst_sql_fieldval` (structure)
  - The definition of the following methods has been adjusted:
    - `select_dtahead`
    - `select_movement`
    - `select_wmdta`

- **Interface /msg/if_vrj_mdta_jml**
  - The following objects are not available:
    - `gtt_jmdta` (table)
    - `get_entity_vers` (method)
  - The definition of the following methods has been adjusted:
    - `get_version`
    - `get_versions`
    - `scroll_processed_back`
    - `scroll_processed_forw`

- **Interface /msg/if_vrj_mpol_bo**
The following objects are not available:
- got_changes (object)
- /msg/if_v_dev (interface)

The definition of the following events has been adjusted:
- policy_changed
- after_save
- after_release

The definition of the following methods has been adjusted:
- load_pol
- finish_pol
- save_pol

Interface /msg/if_vrj_mpol_boc
- The following objects are not available:
  - got_sql_param (object)
  - gvt_sql_param (variable)

The definition of the following methods has been adjusted:
- get_address_nodes
- get_calcbase_nodes
- get_claimall_nodes
- get_claimcon_nodes
- get_claimhd_nodes
- get_claimimp_nodes
- get_claimrev_nodes
- get_clairesp_nodes
- get_cond_nodes
- get_escvect_nodes
- get_esc_nodes
- get_evidence_nodes
- get_hobby_nodes
- get_impairmt_nodes
- get_inesper_nodes
- get_inspshr_nodes
- get_loadshr_nodes
- get_load_nodes
- get_occupat_nodes
- get_pcsshr_nodes
- get_perval_nodes
- get_polcomp_nodes
- get_polresp_nodes
- get_proalo_nodes
- get_uatch_nodes
• Interface /msg/if_vrj_mpol_da
  o The following objects are not available:
    ▪ gst_sql_param (structure)
    ▪ gst_sql_fieldval (structure)
  o The definition of the following methods has been adjusted:
    ▪ select_perval
    ▪ select_wmpol
    ▪ select_mcle
    ▪ select_movement

• Interface /msg/if_vrj_oapl_bo
  o The following objects are not available:
    ▪ reactivate_pol (method)
    ▪ reactivate_polcomp (method)
    ▪ reactivate_polcompshr (method)
  o The definition of the following methods has been adjusted:
    ▪ load_pol
    ▪ finish_pol
    ▪ finish_polcomp
    ▪ finish_polcompshr
    ▪ save_pol
    ▪ save_polcomp
    ▪ save_polcompshr

• Interface /msg/if_vrj_oapl_boc
  o The following objects are not available:
    ▪ got_sql_param (object)
    ▪ gvt_sql_param (variable)
  o The following methods have been deleted and replaced:
    ▪ create_esc
    ▪ create_escvect
    ▪ delete_esc
    ▪ delete_escvect
    ▪ get_esc
    ▪ get_escvect
    ▪ get_esc_nodes
    ▪ lapse_esc
    ▪ lapse_escvec
    ▪ set_escvect_data
    ▪ set_esc_data
  o The following methods are not available:
- get_escvect_nodes
- lapse_polalloc
- lapse_polresp

  - The definition of the following methods has been adjusted:
    - get_calcbase_nodes
    - get_cond_nodes
    - get_hobby_nodes
    - get_insper_nodes
    - get_inspshr_nodes
    - get_loadshr_nodes
    - get_load_nodes
    - get_occupat_nodes
    - get_perval_nodes
    - get_polalloc_nodes
    - get_polresp_nodes
    - get_proalo_nodes

- Interface /msg/if_vrj_oapl_da
  - The following objects are not available:
    - got_sql_param (object)
    - gvt_unfinished_run_id (variable)
    - gst_sql_param (structure)
    - gst_sql_fieldval (structure)
  
  - The following structure has been deleted and replaced:
    - gstt_proalo

  - The definition of the following methods has been adjusted:
    - select_pcshr
    - select_pol
    - select_proalo

- Interface /msg/if_vrj_oapl_jrnl
  - The following method is not available:
    - get_ts_by_movid

- Interface /msg/if_vrj_oapp_bo
  - The following objects are not available:
    - got_changes (object)
    - /msg/if_v_dev (interface)

  - The definition of the following methods has been adjusted:
    - application_changed
    - after_save
- after_release

- Interface /msg/if_vrj_oapp_boc
  - The following objects are not available:
    - got_sql_param (object)
    - gvt_sql_param (variable)
    - /msg/if_v_dev (interface)
  - The definition of the following methods has been adjusted:
    - get_evidence_nodes
    - get_impairmt_nodes
    - get_uatch_nodes

- Interface /msg/if_vrj_oapp_da
  - The following objects are not available:
    - gst_sql_param (structure)
    - gst_sql_fieldval (structure)
  - The definition of the following method has been adjusted:
    - select_woapp

- Interface /msg/if_vrj_oapp_jrl
  - The following objects are not available:
    - gtt_joapp (table)
    - get_load_keys (method)
    - get_entity_very (method)
  - The definition of the following methods has been adjusted:
    - get_version
    - get_versions
    - scroll_processed_back
    - scroll_processed_forw

- Interface /msg/if_vrj_olif_bo
  - The following objects are not available:
    - /msg/if_vrj_core_ndim (interface)
    - /msg/if_v_dev (interface)
    - got_changes (object)
    - reactive_life (method)
    - reactive_claimhd (method)
  - The definition of the following events has been adjusted:
    - after_save
    - after_release
The definition of the following methods has been adjusted:
- `load_life`
- `finish_life`
- `finish_claimhd`
- `save_life`
- `save_claimhd`

Interface `/msg/if_vrj_olif_boc`
- The following objects are not available:
  - `got_sql_param` (object)
  - `gvt_sql_param` (variable)

- The definition of the following methods has been adjusted:
  - `get_address_nodes`
  - `get_claimhd_nodes`
  - `get_idalloc_nodes`
  - `get_facdem_nodes`
  - `get_ident_nodes`
  - `get_insinfo_nodes`

Interface `/msg/if_vrj_olif_da`
- The following objects are not available:
  - `gst_sql_param` (structure)
  - `gst_sql_fieldval` (structure)

- The definition of the following methods has been adjusted:
  - `select_life`
  - `select_wolif`

Interface `/msg/if_vrj_olif_jrnl`
- The following objects are not available:
  - `gtt_jolif` (table)
  - `gvt_change_user` (variable)
  - `get_load_keys` (method)
  - `get_entity_vers` (method)

- The definition of the following methods has been adjusted:
  - `get_version`
  - `get_versions`
  - `scroll_effective_back`
  - `scroll_effective_forw`
  - `scroll_processed_back`
  - `scroll_processed_forw`
  - `get_ts_at`
• Interface /msg/if_vrj_opol_bo
  o The following objects are not available:
    ▪ /msg/if_vrj_core_ndim (interface)
    ▪ /msg/if_y_dev (interface)
    ▪ /msg/if_7f_da_mgr (interface)
    ▪ reactive_claimall (method)
  o The definition of the following events has been adjusted:
    ▪ policy_changed
    ▪ after_save
    ▪ after_release
  o The definition of the following methods has been adjusted:
    ▪ finish_claimall
    ▪ save_claimall

• Interface /msg/if_vrj_opol_boc
  o The following objects are not available:
    ▪ got_sql_param (object)
    ▪ gvt_sql_param (variable)
  o The definition of the following methods has been adjusted:
    ▪ delete_cldecidx
    ▪ get_claimall_nodes
    ▪ get_claimassreq_nodes
    ▪ get_claimcon_nodes
    ▪ get_claimimp_nodes
    ▪ get_claimrev_nodes
    ▪ get_clairesp_nodes
    ▪ get_evidence_nodes
    ▪ get_impairmt_nodes

• Interface /msg/if_vrj_opol_da
  o The following objects are not available:
    ▪ gst_sql_param (structure)
    ▪ gst_sql_fielval (structure)
  o The definition of the following methods has been adjusted:
    ▪ select_claim
    ▪ select_wopol
    ▪ select_pprwnd

• Interface /msg/if_vrj_opol_jrnl
  o The following objects are not available:
    ▪ gtt_jopol (table)
▪ get_load_keys (method)
▪ get_entity_vers (method)

  o The definition of the following methods has been adjusted:
    ▪ get_version
    ▪ get_versiona
    ▪ scroll_effective_back
    ▪ scroll_effective_forw
    ▪ scroll_processed_back
    ▪ scroll_processed_forw
    ▪ get_ts_at

▪ Interface /msg/if_vrj_ocm_da
  o The following objects are not available:
    ▪ /msg/if_v_dev (interface)
    ▪ false (alias)
    ▪ true (alias)
    ▪ bool (alias)

▪ Interface /msg/if_vrj_pl_callback
  o The following object is no longer available:
    ▪ is_defaulting_active (method)

▪ Interface /msg/if_vrj_core

The interface /msg/if_vrj_core is not available and has been partially replaced.

▪ Meta model / object model / entity model OPCSHR

The entity model OPCSHR has been replaced.

▪ BAPI interface /msg/bapi_vmpol_create

The interface of /msg/bapi_vmpol_create has been adjusted. The following parameters have been removed:

  o ct_claimall
  o ct_claimass
  o ct_claimcon
  o ct_claimdec
  o ct_claimimp
  o ct_evidence
  o ct_impairmt
  o ct_uwass
  o ct_uwipdec
Adjustment of structures

The fields DEFAULT_VALUE and DEFAULT_END_TS have been removed from the following structures:

- /MSG/BAPI_VDMPCLOGMSGS
- /MSG/BAPI_VDMPCSLOGMSGS
- /MSG/BAPI_VDMPOLLOGMSGS
- /MSG/BAPI_VDMADDLOGMSGS
- /MSG/BAPI_VDMCLMLOGMSGS
- /MSG/BAPI_VDMCLMCOLOGMSGS
- /MSG/BAPI_VDMCLMASSLOGMSGS
- /MSG/BAPI_VDMCLMCONLOGMSGS
- /MSG/BAPI_VDMCLMHLOGMSGS
- /MSG/BAPI_VDMCLMDECLOGMSGS
- /MSG/BAPI_VDMCLMIMPLOGMSGS
- /MSG/BAPI_VDMCLMSHLOGMSGS
- /MSG/BAPI_VDMESCLOGMSGS
- /MSG/BAPI_VDMESCVECTLOGMSGS
- /MSG/BAPI_VDMEVIDLOGMSGS
- /MSG/BAPI_VDMHOBLOGMSGS
- /MSG/BAPI_VDMIDENTLOGMSGS
- /MSG/BAPI_VDMIMPLOGMSGS
- /MSG/BAPI_VDMINSPERLOGMSGS
- /MSG/BAPI_VDMLOADLOGMSGS
- /MSG/BAPI_VDMLOASHLOGMSGS
- /MSG/BAPI_VDMOCCLOGMSGS
- /MSG/BAPI_VDMPERVALLOGMSGS
- /MSG/BAPI_VDMPROALOLOGMSGS

Information related to the business process

The impact on business processes depends on the use of the adjusted or deleted objects.

Required Action(s)

Check whether the deleted or changed objects specified in the object list and in this SAP Note are used. If so, you must replace the deleted or changed objects.
A replacement is delivered for the following deleted objects:

- Replace the following deleted classes for exception calls
  - /msg/cx_vrj_after_finish_error
  - /msg/cx_vrj_assign_error
  - /msg/cx_vrj_badi_error
  - /msg/cx_vrj_boc
  - /msg/cx_vrj_bo_struct_error
  - /msg/cx_vrj_cmnt_serialisation
  - /msg/cx_vrj_defaults
  - /msg/cx_vrj_illegal_lock_mode
  - /msg/cx_vrj_invalid_change
  - /msg/cx_vrj_not_found
  - /msg/cx_vrj_not_loaded
  - /msg/cx_vrj_no_da_agent_found
  - /msg/cx_vrj_object_freed
  - /msg/cx_vrj_overlapping_vers
  - /msg/cx_vrj_parent_new
  - /msg/cx_vrj_parent_not_loaded
  - /msg/cx_vrj_parent_w_sublvls
  - /msg/cx_vrj_par_not_bound
  - /msg/cx_vrj_state_error
  - /msg/cx_vrj_sublvls_not_loaded
  - /msg/cx_vrj_type_mismatch
  - /msg/cx_vrj_undefined_value
  - /msg/cx_vrj_unknown_rdf_error
  - /msg/cx_vrj_wrong_journal

with the superclass: /msg/cx_vrj

- Replace the following deleted classes
  - /msg/cl_vr_acmarket_001: /msg/cl_va_get_market_id
  - /msg/cl_vr_aohhead_001: /msg/cl_va_get_head_id
  - /msg/cl_vr_mdtahhead_002: /msg/cl_vr_get_dtahd_by_dtano
  - /msg/cl_vr_mdtahhead_006: /msg/cl_vr_get_dtahd_wo_sysdta
  - /msg/cl_vr_mdtahhead_007: /msg/cl_vr_get_systemdtaid
  - /msg/cl_vr_mmovement_002: /msg/cl_vr_get_error_movs_hist
  - /msg/cl_vr_mmovement_006: /msg/cl_vr_get_single_movement
  - /msg/cl_vr_mmovement_007: /msg/cl_vr_get_mov_by_refmovoid
  - /msg/cl_vr_mmovement_009: /msg/cl_vr_get_mov_by_dtaid
  - /msg/cl_vr_olife_001: /msg/cl_vr_get_current_life
  - /msg/cl_vr_olife_003: /msg/cl_vr_get_life_by_lifeno
  - /msg/cl_vr_opschr_002: /msg/cl_vr_get_m_shrs tty_sect
  - /msg/cl_vr_opschr_003: /msg/cl_vr_get_m_sh_pol_pk_cap
  - /msg/cl_vr_opschr_004: /msg/cl_vr_get_prev_shr_vers
Replace the following deleted methods (interface /msg/if_vrj_oapl_boc)
- create_esc
- create_escvect
- delete_esc
- delete_escvect
- get_esc
- get_escvect
- get_esc_nodes
- lapse_esc
- lapse_escvec
- set_escvect_data
- set_esc_data

with the corresponding method of the interface: /msg/if_vrj_opol_boc

Replace the structure gsttt_proalo (interface /msg/if_vrj_oapl_da) with the new structure: gst_proalo (interface /msg/if_vrj_oapl_da)

The interface /msg/if_vrj_core is not available.

- Replace the method META_DATA: Functions available in /msg/cl_vr_bo_manager

- Replace the following methods with the methods from the respective journal class of the BO models (/msg/cl_vr_oapl, /msg/cl_vr_oapp, /msg/cl_vr_opol, /msg/cl_vr_mpol, /msg/cl_vr_olif, /msg/cl_vr_mdta):
  - Replace the method LOAD: /msg/if_vrj_<BO_NAME>_bo->load_<ENTITYNAME>
  - Replace the method LOAD_SUBNODE: /msg/if_vrj_<BO_NAME>_bo->load_<ENTITYNAME>
- Replace the method SAVE: `/msg/if_vrj_<BO_NAME>_bo->load_<ENTITYNAME>`
- Replace the method RELEASE_ALL: `/msg/if_vrj_<BO_NAME>_bo->release_all`
- Replace the method RELEASE: `/msg/if_vrj_<BO_NAME>_bo->release_<ENTITYNAME>`
- Replace the method CHECK_CHANGED: `/msg/if_vrj_oapl_bo->check_pol_changed` or `/msg/if_vrj_base->node_has_changed`
- Replace the method GET_ACCESS_MODE: `if_vrj_<BO_NAME>_bo->get_acc_mode_<ENTITYNAME>`

- Replace the method CREATE_ROOT_BOC: `/msg/if_vrj_<BO_NAME>_boc->create_<ENTITYNAME>`
- Replace the method CREATE_BOC: `/msg/if_vrj_<BO_NAME>_boc->create_<ENTITYNAME>`
- Replace the method DELETE_BOC: `/msg/if_vr_boc->delete`
- Replace the method DELETE_BOC_IRREVOCABLE: `/msg/if_vr_boc->delete`
- Replace the method LAPSE_BOC: `/msg/if_vrj_<BO_NAME>_boc->lapse_<ENTITYNAME>`
- Replace the method SET_ATTIBUTES: `/msg/if_vrj_<BO_NAME>_boc->set_<ENTITYNAME>_data`

- Replace the following methods with the methods from `/msg/if_vrj_base`:
  - Replace the method RESOLVE_BO_STRUCT: `/msg/if_vrj_base->resolve_bo_struct`
  - Replace the method BO_NODE_LIST_FROM_DB: `/msg/if_vrj_base->resolve_bo_structure`
  - Replace the method BO_NODE_LIST_FROM_MEMORY: `/msg/if_vrj_base->resolve_bo_structure`
  - Replace the method DA_CREATE: `/msg/cl_vrj_base -> member instance mo_legacy_da (/msg/cl_vrj_legacy_da) -> create`
  - Replace the method DA_CREATE_TABLE: `/msg/cl_vrj_base -> member instance mo_legacy_da (/msg/cl_vrj_legacy_da) -> create_table`
  - Replace the method DA_UPDATE: `/msg/cl_vrj_base -> member instance mo_legacy_da (/msg/cl_vrj_legacy_da) -> update`
Replace the method DA_UPDATE_TABLE: /msg/cl_vrj_base -> member instance mo_legacy_da (/msg/cl_vrj_legacy_da) -> update_table

Replace the method DA_DELETE: /msg/cl_vrj_base -> member instance mo_legacy_da (/msg/cl_vrj_legacy_da) -> delete

Replace the method DA_DELETE_TABLE: /msg/cl_vrj_base -> member instance mo_legacy_da (/msg/cl_vrj_legacy_da) -> delete_table

Replace the method GET_CHILDREN: /msg/if_vrj_base -> get_children.

Replace the method GET_ROOT: /msg/if_vrj_base -> get_root

Replace the method GET_PARENT: /msg/if_vrj_base -> get_parent

Replace the method GET_PARENT_LEVEL: /msg/if_vrj_base -> get_parent_level

Replace the method GET_MODEL_NAME: /msg/if_vrj_base -> get_model_name

Replace the method GET_ENTITY_NAME: /msg/if_vrj_base -> get_entity_name

Replace the method GET_HIST_TYPE: /msg/if_vrj_base -> get_hist_type

Replace the method GET_TABLE_NAME: /msg/if_vrj_base -> get_table_name

Replace the method COPY: /msg/if_vrj_base -> copy

Replace the method MODEL: /msg/if_vrj_base -> get_model_name

Replace the method SET_MIGRATION: /msg/if_vrj_base -> set_migration

Replace the method BO_CHANGES: /msg/if_vrj_base -> changed_attributes or /msg/if_vrj_base -> changed_nodes

Replace the constants with the corresponding constants from: /msg/if_vrj_base

The meta model / object model / entity model OPCSHR has been replaced:
- OPOL_OPCSHR
- OAPP_OPCSHR

Check whether the entity model OPCSHR has been redefined:

- Call transaction /MSG/7FW_START.
- Load the application 10000.
- Navigate to "Meta Models -> Object Models -> Entity Models" and open the entity model OPCSHR.
- Check whether a redefinition was performed for the entity OPCSHR.
If a redefinition was performed, create a message for the component FS-RI-LRM to have the entity models OPOL_OPCSHR or OAPP_OPCSHR enabled for redefinitions.

- Objects that are listed as deleted in the object list or in the solution information of this SAP Note and that do not have a corresponding replacement listed in this SAP Note were deleted without replacement.

53.5 S4TWL - Deletion of obsolete objects (Compat-Packages)

Application Components: FS-RI-LRM, XX-PART-MSG-LRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3047902</td>
<td>S4TWL - Deletion of obsolete objects (compat packages)</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA.

Reason and Prerequisites

This SAP Note is relevant to you if your source release for the system conversion is an ERP release.

It is not relevant if your source release is SAP S/4HANA Finance or SAP S/4HANA.

Solution

Description

Packages with development objects that were already obsolete in SAP Reinsurance Management 7.0 are deleted in SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for reinsurance management.

Information related to the business process

The impact on business processes depends on the use of the obsolete objects.

Required actions

Check if the obsolete objects in the object list are used in user-specific source code. If this is the case, you must adjust the user-specific source code.
Some of the deleted programs are replaced by new programs. To do this, you can perform the following steps:

- Replace the obsolete program /MSG/VRP_BA_DEL_DTA with the new program: /MSG/VRP_BA_DTT DELETE
- Replace the obsolete program /MSG/VRP_BA_DEL_DTA_PP with the new program: /MSG/VRP_BA_DTT DELTETE_PP
- Replace the obsolete program /MSG/VRP_BA_MOVEMENT_PPROC with the new program: /MSG/VRP_BA_MOVTMT_PROP
- Replace the obsolete program /MSG/VRP_BA_MOVEMENT_PROC with the new program: /MSG/VRP_BA_MOVTMT_PROC
- Replace the obsolete program /MSG/VRP_BA_MOVTMT_REWIND with the new program: /MSG/VRP_BA_MOVTMT_REWIND
- Replace the obsolete program /MSG/VRP_BA_CLOSECAP with the new program: /MSG/VRP_BA_CAP_CLOSE
- Replace the obsolete program /MSG/VRP_BA_CLOSECAP_PP with the new program: /MSG/VRP_BA_CAP_CLOSE_PP
- Replace the obsolete program /MSG/VRP_BA_OPENCAP with the new program: /MSG/VRP_BA_CAP_OPEN
- Replace the obsolete program /MSG/VRP_BA_REOPENCAP with the new program: /MSG/VRP_BA_CAP_REOPEN

Other Terms

COMPAT Packages

53.6 S4TWL - FS-R1 - Deletion of LSMW Integration

Application Components: FS-R1-LRM, XX-PART-MSG-LRM

Related Notes:

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<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
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<td>Business Impact</td>
<td>2887844</td>
<td>S4TWL - Deletion of LSMW integration</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA. In this case, the following entry in the worklist for the transition to SAP S/4HANA applies.

Reason and Prerequisites
This SAP Note is relevant to you if your source release for the system conversion is an ERP release.

It is not relevant if your source release is SAP S/4HANA Finance or SAP S/4HANA.

**Solution**

**Description**

The "Import of a Data Transmission" background job is no longer available in SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for reinsurance management. When you navigate to a data transmission, the "LSMW" and "IDocs" tab pages and the import button that are displayed when the data transmission is being processed are also no longer available.

**Information related to the business process**

The impact on business processes depends on the use of the obsolete objects.

**Required and recommended action(s)**

Check whether you used the obsolete objects. If this is the case, you must implement your own solution for importing a data transmission, if you do not do so already.

**Other Terms**

LSMW

IDocs

/MSG/VRP_BA_IMPORT_DTA.

**53.7 S4TWL - FS-RI - Replacement of a Semantic Object in Fiori App and Transaction**

Application Components:FS-RI-LRM, FS-RI

**Related Notes:**

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2970970</td>
<td>S4TWL - FS-RI - Replacement of a Semantic Object in Fiori App and Transaction</td>
</tr>
</tbody>
</table>
Symptom

You intend to do a release upgrade from SAP S/4HANA 1909 to SAP S/4HANA 2020.

The following SAP S/4HANA 2020 Transition Worklist item is applicable in this case.

Reason and Prerequisites

This SAP Note is relevant, if the current release is SAP S/4HANA 1909.

Solution

Description

In SAP Reinsurance Management for SAP S/4HANA 2020 following objects are not available:

- Transaction /MSG/X_V_OPEN_POLICY
- Program /MSG/X_V_OPEN_POLICY
- semantic object ReinsuranceLifeRiskPolicy

Business Process related information

The effects on business processes depend on the usage of the obsolete objects.

Required Action(s)

Check if the obsolete objects, specified in the piece list, are in use. If yes, you must follow these steps:

- Replace the obsolete transaction/MSG/X_V_OPEN_POLICY with the new transaction: /MSG/X_V_POLICY_MGMT
- Replace the obsolete program /MSG/X_V_OPEN_POLICY with the new program: /MSG/X_V_POLICY_MGMT
- Replace the obsolete semantic object ReinsuranceLifeRiskPolicy with the new semantic object: RMLifePlcyNumber

Other Terms

Inforce Summary
53.8 S4TWL - FS-RI - Ensuring the functionality of the Extension Service

Application Components: FS-RI, XX-PART-MSG-LRM, FS-RI-LRM

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
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<td>Business Impact</td>
<td>2972152</td>
<td>S4TWL - FS-RI - Ensuring the functionality of the Extension Service</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA. In this case, the following entry in the worklist for the transition to SAP S/4HANA applies.

Reason and Prerequisites

This SAP Note is relevant to you if your source release for the system conversion fulfills one of the following conditions:

- ERP system
- SAP S/4HANA 1709 (FP 02) to SAP S/4HANA 2020 (Initial Shipment Stack)

Solution

Description

Extension Service objects are no longer available in SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for reinsurance management.

Information related to the business process

The impact on business processes depends on the use of the obsolete objects.

Required actions

Check whether you used the obsolete objects. If you did, you must perform the following steps:

During the SPAU and SPDD adjustment, the system may issue warnings stating that an adjustment is required for modified objects. This affects Extension Service structures with the name /MSG/BAPI_ED_* or /MSG/BAPI_EC_* etc. You can ignore these warnings. You can also reset the modifications. However, this may result in errors and should therefore be avoided.
When the Extension Service is regenerated after the upgrade, these BAPI structures are also regenerated. As a result, the Extension Service is consistent and functioning again.

Create customer variant

1. Call transaction /MSG/7FW_START.
2. Double-click "Workplace" and open the application "10000".
3. Right-click "10000" and choose "Customer Variant".
4. Populate the following fields:
   - Customer Variant
   - License Key
   - Storage Package of Classes
   - Class Prefix
5. Choose "New".
6. Save the change and choose a suitable request to do so.

Choose "Generate".

Call transaction /MSG/7FW_START again and, before choosing "Generate", ensure that all requests that contain the relevant objects have been released.

1. Call transaction /MSG/2_ES_EXT_SRVC.
3. Under "Extendable Tables", select the table /MSG/VDOCLAIM.
4. Under "Enhancements", select /MSG/ED_OCLM01 and choose "Activate" (Ctrl+F3).
5. In the dialog box that is displayed, create a request and save it.
6. Confirm any other dialog boxes that may be displayed. If the system displays a dialog box for the IDocs, choose "No".
7. If no errors occur, navigate back to transaction /MSG/2_ES_EXT_SRVC and repeat the steps 3 to 6 for the following tables:
   - /MSG/VDOCOND
   - /MSG/VDOCONDBASE
   - /MSG/VDOINSPER
   - /MSG/VDOLOAD
   - /MSG/VDOPCSHR
   - /MSG/VDOPOL
   - /MSG/VDOPOLCOMP
8. Navigate back to transaction /MSG/2_ES_EXT_SRVC and select FS-RI-RML-SRA under "Applications".
9. Repeat the steps 3 to 6 for the following tables:
   - /MSG/VDOUWASS
   - /MSG/VDOUWPOLDAT

Note that two enhancements must be generated for /MSG/VDOUWASS.
If errors occur during generation, call the transaction again and generate the enhancement again. The system may issue the following error messages:

- "Unable to load business object element ENTITY"
- "Unable to load business object element PERSISTENCE"
- "Unable to load business object element CHMODEL"
- "Unable to load business object elementCTRLMODEL"

Del-tool for problems with COND

1. Add the following entry to the table /MSG/0CHECK:
   - KORVAS-SAP
2. Call transaction /MSG/2_ES_DEL_TOOL.
3. Select the entry RCOND01.
4. Choose "Generate Standard“.

Other Terms

Extension Service

53.9 S4TWL - FS-RI deletion of obsolete functionality for FI-AR

Application Components:FS-RI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2964772</td>
<td>S4TWL - FS-RI deletion of obsolete functionality for FI-AR</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

This SAP Note is relevant for you when your start release for the system conversion is an ERP release.

It is not relevant if your start release is S/4HANA Finance or S/4HANA.
Solution

Description

In SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for reinsurance management, obsolete FS-RI functionality objects for FI-AR are deleted.

Business Process related information

Following business processes are no longer available:

- Goto Accounts Receivable (Transaction /MSG/RFDMN)
- Transfer Posting (Transaction /MSG/R_AU)
- Cash Loss/Noted Item (Transaction /MSG/R_AS and /MSG/R_AS1)
- Broker View of Line Items (Transaction /MSG/R_KM)

For Goto Accounts Receivable use Transaction RFDMN instead of /MSG/RFDMN. For Transfer Posting use Transaction /MSG/R_AU1 instead of /MSG/R_AU.

Effects on customer business processes depends on the usage of obsolete objects in custom code.

Required and Recommended Action(s)

Check if the obsolete objects in the piece list are used in custom code. If yes, you must adapt the custom code.

53.10S4TWL - FS-RI - Deletion and Replacement of Obsolete CDS Views

Application Components: FS-RI-LRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3040673</td>
<td>S4TWL - deleting and replacing CDS views</td>
</tr>
</tbody>
</table>

Symptom

You want to perform a release upgrade from SAP S/4HANA 1909 or SAP S/4HANA 2020 to SAP S/4HANA 2021 or higher.

Reason and Prerequisites
This SAP Note is relevant if your current release is SAP S/4HANA 1909 or SAP S/4HANA 2020.

**Solution**

**Description**

CDS views are deleted and replaced in SAP Reinsurance Management for SAP S/4HANA 1909 and SAP Reinsurance Management for SAP S/4HANA 2020. The following CDS views are not available in SAP Reinsurance Management for SAP S/4HANA 2021 and higher and have been replaced:

- /MSG/I_RTreatyInvolvementShrB
- /MSG/I_VOpPerValMaxID
- /MSG/I_VOpPerValMaxValidity
- /MSG/I_REntryCodeB
- /MSG/I_RAcctgUnitB
- /MSG/I_RClassOfBusinessB
- /MSG/I_RLineOfBusinessB
- /MSG/I_RUnderwritingAreaB
- /MSG/I_RPartnerInvolved
- /MSG/I_RTreatyB
- /MSG/I_REAKZB
- /MSG/V_ACCTRANS_SELECT_CL_NO

The following CDS views were deleted without substitution:

- /MSG/VRP_LATEST_CLAIM_STATUS
- /MSG/V_ACCTRANS_SELECT_CLCLAIM
- /MSG/V_ACCTRANS_SEL_CL_LATEST

**Information related to the business process**

The impact on business processes depends on the use of the deleted CDS views.

**Required Action(s)**

Check whether the deleted CDS views specified in the object list are used. If so, you must replace the deleted CDS views:

- Replace the obsolete CDS view /MSG/I_RTreatyInvolvementShrB with the new CDS view: /MSG/I_RTreatyInvolvementShr
- Replace the obsolete CDS view /MSG/I_VOpPerValMaxID with the new CDS view: /MSG/I_VOpSumRiskReinsAccMaxID
• Replace the obsolete CDS view /MSG/I_VOpPerValMaxValidity with the new CDS view: /MSG/I_VOpSumRiskAccuMaxVldty
• Replace the obsolete CDS view /MSG/I_REntryCodeB with the new CDS view: /MSG/I_REntryCodeBasic
• Replace the obsolete CDS view /MSG/I_RAcartgUnitB with the new CDS view: /MSG/I_RAAccountingUnitB
• Replace the obsolete CDS view /MSG/I_RAccountingUnitB with the new CDS view: /MSG/I_RAccountingUnitB
• Replace the obsolete CDS view /MSG/I_RClassOfBusinessB with the new CDS view: /MSG/I_RClassOfBusinessBasic
• Replace the obsolete CDS view /MSG/I_RLineOfBusinessB with the new CDS view: /MSG/I_RLineOfBusinessB
• Replace the obsolete CDS view /MSG/I_RUnderwritingAreaB with the new CDS view: /MSG/I_RUnderwritingAreaBasic
• Replace the obsolete CDS view /MSG/I_RPartnerInvolved with the new CDS view: /MSG/I_RBPartInvolved
• Replace the obsolete CDS view /MSG/I_RTreatyB with the new CDS view: /MSG/I_RTreatyBasic
• Replace the obsolete CDS view /MSG/I_REAKZB with the new CDS view: /MSG/I_RTreatyUseAssumedCededB
• Replace the obsolete CDS view /MSG/V_ACCTRANS_SELECT_CL_NO with the new CDS view: /MSG/V_AGGSEL_CLAIMSHR_LIFETME

Other Terms

CDS

CDS views

View

Online Analytic

Data Extraction

53.11S4TWL - FS-RI Deletion of obsolete functionality for FS-RI-B

Application Components: FS-RI, FS-RI-LRM, FS-RI-B

Related Notes:

<table>
<thead>
<tr>
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<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>3061212</td>
<td>Worklist for transition to SAP S/4HANA - FS-RI: Deletion of obsolete functions for information system reports</td>
</tr>
</tbody>
</table>
Symptom

You perform a system conversion to SAP S/4HANA. In this case, the following entry applies in the worklist for the transition to SAP S/4HANA.

Reason and Prerequisites

This SAP Note is relevant to you if your source release for the system conversion is an ERP release.

It is not relevant if your source release is SAP S/4HANA Finance or SAP S/4HANA.

Solution

Description

In SAP Reinsurance Management for SAP S/4HANA and in SAP S/4HANA Insurance for Reinsurance Management, obsolete FS-RI functions for information system reports are deleted.

Information related to the business process

The impact on business processes depends on the use of the obsolete objects.

Required and recommended action(s)

Check if the obsolete objects in the object list are used in user-specific source code. If this is the case, you must adjust the user-specific source code.

The following transactions are no longer available:

- Evaluation of Funds (transaction /MSG/R_A_DEPOT)
- Treaties by Broker (transaction /MSG/R_VTGM)
- Treaties by Cedent (transaction /MSG/R_VTGZ)
- Cedent/Reinsurer (transaction /MSG/R_PGES1)
- Broker (transaction /MSG/R_PGES2)
- Cedent/Reinsurer and Broker (transaction /MSG/R_PGES3)
- Cedent/Reinsurer and/or Broker (transaction /MSG/R_PGES4)
- Neither Cedent/Reinsurer nor Broker (transaction /MSG/R_PGES5)

The following user menu items and menu folders are no longer available in the menu "Insurance -> Reinsurance Information System Reports ->":

- Funds -> Evaluation of Funds
- Funds
- Treaty -> Treaties by Broker
- Treaty -> Treaties by Cedent
- Business Partner -> Cedent/Reinsurer
- Business Partner -> Broker
- Business Partner -> Cedent/Reinsurer and Broker
- Business Partner -> Cedent/Reinsurer and/or Broker
- Business Partner->Neither Cedent/Reinsurer nor Broker
- Business Partner

The menu template /MSG/FSRI_800_TEMPLATE has been adjusted accordingly.

The transactions and menu items have been deleted from the following predefined roles:

/MSG/V_LRM_BASIC_SETTING
/MSG/FSRI_800_TEMPLATE
/RUI/BR_RI_TREATY_ADMIN_NL
Group: /RUI/FSRI_BCG_TREATY_ADMIN_REPORTS
/RUI/BR_RI_TREATY_ADMIN_L
Group: /RUI/FSRI_BCG_TREATY_ADMIN_L_REPORTS

**Required and recommended action(s)**

Check if the obsolete objects in the object list are used in user-specific source code. If this is the case, you must adjust the user-specific source code.
Check if the obsolete objects in the object list are used in user-specific roles. If this is the case, you must adjust the user-specific roles.
Check if the obsolete objects in the object list are used in user-specific menus. If this is the case, you must adjust the user-specific menus.

**53.12S4TWL - FS-RI – Announcement of deletion of obsolete RAM APIs**

Application Components:XX-PART-MSG-RAM, FS-RI-RAM

Related Notes:

<table>
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<tr>
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<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3104363</td>
<td>S4TWL - FS-RI - Announcement of deletion of obsolete RAM APIs</td>
</tr>
</tbody>
</table>

**Symptom**

You want to perform a system conversion from EHP7 FOR SAP ERP 6.0 - 06 (10/2014) or higher, or a release upgrade from SAP S/4HANA 1709, SAP S/4HANA 1809, SAP S/4HANA 1909, SAP S/4HANA 2020, or SAP S/4HANA 2021 to SAP S/4HANA 2021 or higher.
Reason and Prerequisites

This SAP Note is relevant if your current release is EHP7 FOR SAP ERP 6.0 - 06 (10/2014) or higher, SAP S/4HANA 1709, SAP S/4HANA 1809, SAP S/4HANA 1909, SAP S/4HANA 2020, or SAP S/4HANA 2021.

Solution

Description

The following function modules are deprecated with Release SAP S/4HANA 2021 and will be deleted completely as of Release SAP S/4HANA 2022.

- /MRA/A2A_IR_MODIFY_RISK
- /MRA/A2A_RTA_C_PRE_ACCOUNTS
- /MRA/A2X_IR_F_ENDPER_BY_EL
- /MRA/A2X_IR_M_REGISTER_RISK
- /MRA/A2X_IR_P_SHIFT_RISK
- /MRA/A2X_RR_F_BY_ELEMENTS
- /MRA/A2X_RR_M_PRECESSION
- /MRA/A2X_RTA_C_PRE_ACCOUNTS

Information related to the business process

If your target release is SAP S/4HANA 2021, using the obsolete function modules has no effect for the time being. However, we recommend that you start using the replacing function modules as soon as possible.

If your target release is SAP S/4HANA 2022, it is no longer technically possible to use the deleted function modules. They must be replaced by the new function modules.

Required Action(s)

Check whether you are using one of the obsolete or deleted function modules and replace it with the new function module as soon as possible, as described above:

- /MRA/A2A_IR_MODIFY_RISK is replaced by /MRA/A2A_IR_MODIFY_RISK_V2
- /MRA/A2A_RTA_C_PRE_ACCOUNTS is replaced by /MRA/A2A_RTA_C_PRE_ACCOUNTS_V2
- /MRA/A2X_IR_F_ENDPER_BY_EL is replaced by /MRA/A2X_IR_F_ENDPER_BY_EL_V2
- /MRA/A2X_IR_M_REGISTER_RISK is replaced by /MRA/A2X_IR_M_REGISTER_RISK_V2
- /MRA/A2X_IR_P_SHIFT_RISK is replaced by /MRA/A2X_IR_P_SHIFT_RISK_V2
• /MRA/A2X_RR_F_BY_ELEMENTS is replaced by /MRA/A2X_RR_F_BY_ELEMENTS_V2
• /MRA/A2X_RR_M_PRECESSION is replaced by /MRA/A2X_RR_M_PRECESSION_V2
• /MRA/A2X_RTA_C_PRE_ACCOUNTS is replaced by /MRA/A2X_RTA_C_PRE_ACCOUNTS_V2

Other Terms

Risk Aggregation Management (RAM)

/MRA/A2A_IR_MODIFY_RISK
/MRA/A2A_RTA_C_PRE_ACCOUNTS
/MRA/A2X_IR_F_ENDPER_BY_EL
/MRA/A2X_IR_M_REGISTER_RISK
/MRA/A2X_IR_P_SHIFT_RISK
/MRA/A2X_RR_F_BY_ELEMENTS
/MRA/A2X_RR_M_PRECESSION
/MRA/A2X_RTA_C_PRE_ACCOUNTS

53.13S4TWL - FS-RI - Interface adaptation in the claim

Application Components: FS-RI-LRM, XX-PART-MSG-LRM

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3210235</td>
<td>Transition to SAP S/4HANA - FS-RI - interface adjustment in loss</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA 2022.

Reason and Prerequisites

This SAP Note is relevant if your source release for the system conversion is an ERP release or an SAP S/4HANA release up to and including SAP S/4 HANA 2021.

It is not relevant if your source release is SAP S/4HANA Finance.

Solution
Description

In the Release SAP S/4HANA 2022, the following methods are deleted and no longer available:

- Class /MSG/CL_VRP_LIB_BO_CLAIMMOV:
  - CHECK_CLAIMHD_ALLOC_CLAIM: No replacement
  - CREATE_NEW_CL_DECISION: The method has been integrated into the method COPY_OCLAIM_ASS of the class /MSG/CL_VRP_LIB_BO_CLAIMASS.

In release SAP S/4HANA 2022, the following methods are renamed:

- Class /MSG/CL_VRP_LIB_BO_CLAIMDATA:
  - SET_OCLAIMHD_FROM_MCLAIMHD is renamed to ASSIGN_MCLAIMHD_TO_OCLAIMHD
  - CHK_FIELD_CHANGE is renamed to RESET_CLAIM_HEADER_FIELDS

- Class /MSG/CL_VRP_LIB_BO_CLAIMASS:
  - CREAT_OCLAIMASS is renamed to CREATE_OCLAIMASS

In Release SAP S/4HANA 2022, the following method parameters of the class /MSG/CL_VRP_LIB_BO_CLAIMDATA are adjusted:

- Method ASSIGN_MCLAIMHD_TO_OCLAIMHD (formerly: SET_OCLAIMHD_FROM_MCLAIMHD):
  - IMPORTING parameters (deleted):
    - IR_OINSPER
    - IR_MINSPER
    - IF_CHANGE
    - IF_NULLVAL
    - IT_NULLVAL
    - IF_NEW_CLAIMHD
  - EXPORTING parameters (deleted):
    - EF_CLAIM_DATE_IDENT
    - EO_MCLAIMHD
    - EF_UPDATED_CLAIM_HD
  - IMPORTING parameters (replaced):
    - IR_OPOL replaced by IO_OPOL
    - IR_OCLAIM replaced by IO_OCLAIM
    - IR_MCLAIM replaced by IO_MCLAIM
    - IR_PARENT_MESSAGE replaced by IO_PARENT_MESSAGE
  - CHANGING parameters (replaced):
    - CS_ALLOC (structure) is deleted. The following structure fields are replaced by parameters:
• CSALLOC-MR_OLIFE replaced by IMPORTING parameter IO_OLIFE
• CSALLOC-MF_NEW_CLAIM_HD replaced by EXPORTING parameter EF_NEW_CLAIM_HD
• CSALLOC-MR_OCLAIMHD replaced by EXPORTING parameter EO_OCLAIMHD
  o IMPORTING parameters (new):
    ▪ IT_OCLAIMMHD (table with all operational claim headers of the current life)
    ▪ IO_MCLAIMMHD (claim header of movement)

• Method RESET_CLAIM_HEADER_FIELDS (previously: CHK_FIELD_CHANGE):
  o IMPORTING parameters (deleted):
    ▪ IR_OPOL
    ▪ IR_OINSPER
    ▪ IR_MINSPER
    ▪ IR_OCLAIM
    ▪ IR_MCLAIM
  o EXPORTING parameters (deleted):
    ▪ EF_ASS_EXISTS
    ▪ EF_FOLLOWING_CLAIM_MOV
    ▪ ER_OCLAIMDEC
    ▪ ER_OCLAIMASS
  o IMPORTING parameter (replaced):
    ▪ IR_PARENT_MESSAGE replaced by IO_PARENT_MESSAGE
  o EXPORTING parameter (changed):
    ▪ EF_CHANGE changed to RETURNING parameter RF_CHANGE_ALLOWED

• Method PROCESS_NEW_CLAIM
  o IMPORTING parameters (deleted):
    ▪ IF_NO_ASSESSMENT
    ▪ IT_CHECK
  o IMPORTING parameters (replaced):
    ▪ IR_INSPER replaced by IO_OINSPER
    ▪ IR_POLCOMP replaced by IO_OPOLCOMP
    ▪ IR_MPOLCOMP replaced by IO_MPOLCOMP
    ▪ IR_POL replaced by IO_OPOL
    ▪ IR_CLAIMMHD replaced by IO_OCLAIMMHD
    ▪ IR_MCLAIM replaced by IO_MCLAIM
    ▪ IR_PARENT_MESSAGE replaced by IO_PARENT_MESSAGE

• Method CALC_CLAIMSHR_AMOUNTS
  o IMPORTING parameter (replaced)
• IR_POL replaced by IO_OPOL
  o CHANGING parameter (replaced)
    ▪ CO_CLAIM is replaced by IMPORTING parameter IO_OCLAIM.

  • Method CALC_CLAIM_FROM_CLAIMSHR
    o IMPORTING parameter (replaced)
      ▪ IR_POL replaced by IO_OPOL
    o EXPORTING parameter (deleted)
      ▪ EF_CLAIM_CALCULATED
    o CHANGING parameter (replaced)
      ▪ CS_CLAIM_CH is replaced by IMPORTING parameter IO_OCLAIM

  • Method SET_CL_PROC_STATUS_IN_PROC
    o EXPORTING parameter (deleted)
      ▪ EF_CLAIM_PROCESSED
    o CHANGING parameter (replaced)
      ▪ CS_CLAIM is replaced by IMPORTING parameter IO_OCLAIM

  • Method DET_AMOUNT_ADMITTED
    o IMPORTING parameter (replaced)
      ▪ IR_POL replaced by IO_OPOL
      ▪ IR_PARENT_MESSAGE replaced by IO_PARENT_MESSAGE
    o CHANGING parameter (deleted)
      ▪ CF_CLAIM_PROCESSED
    o CHANGING parameter (replaced)
      ▪ CS_CLAIM is replaced by IMPORTING parameter IO_OCLAIM

  • Method DET_CLAIM_AMOUNTS
    o CHANGING parameter (replaced)
      ▪ CS_CLAIM is replaced by IMPORTING parameter IO_OCLAIM.

In Release SAP S/4HANA 2022, the following method parameters of the class /MSG/CL_VRP_LIB_BO_CLAIM_ASS are adjusted:

• Method CREATE_OCLAIM_ASS (previously: CREAT_OCLAIM_ASS)
  o IMPORTING parameter (replaced)
    ▪ IR_OCLAIM replaced by IO_OCLAIM
    ▪ IR_OPOL replaced by IO_OPOL
  o IMPORTING parameters (deleted)
    ▪ IR_OCLAIMDEC
    ▪ IR_OCLAIMHD
    ▪ IF_CLAIMDEC_EXISTS
  o EXPORTING parameter (replaced)
- EO_OCLAIMASS is replaced by RETURNING parameter RO_OCLAIMASS.

- Method REASS_OCLAIM_ASS
  - IMPORTING parameters (replaced)
    - IR_OCLAIM replaced by IO_OCLAIM
    - IR_OPOL replaced by IO_OPOL
    - IT_OCLAIMDEC replaced by IO_OCLAIMDEC
    - IR_OCLAIMHD replaced by IO_OCLAIMHD
  - IMPORTING parameters (deleted)
    - IF_CLAIMDEC_EXISTS

Information related to the business process

The impact on business processes depends on how you use the deleted objects.

Required action(s)

Check whether you use the deleted objects specified in the object list and in this SAP Note. If so, you must replace the deleted objects views.

To do this, replace the objects as described in the SAP Note text. If there is no replacement, you will have to implement a replacement yourself if necessary.

Other Terms

- Loss

53.14S4TWL - FS-RI – Replacement of old OA Accounting Reports

Application Components: FS-RI

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3227549</td>
<td>S4TWL - FS-RI – replacement of old OA accounting reports</td>
</tr>
</tbody>
</table>

Symptom

You perform an upgrade to SAP S/4HANA 2022.

Reason and Prerequisites
This SAP Note is relevant if you upgrade from a previous SAP S/4HANA version.

It is not relevant if you do not use any of the obsolete objects.

**Solution**

**Description**

This version prepares various CDS views, the analytical queries based on them, and the Fiori launchpad tiles of these queries for deletion.

The SAP Fiori launchpad tiles with the following titles are marked as obsolete and removed from the groups:

- Accounting Triangle Single Risk Non-Life
- Accounting Triangle Treaty
- Single Risk Statistics
- Single Risk Statistics Ceded View Non-Life
- Gross/Ceded/Net View Single Risk Non-Life
- Gross/Ceded/Net View Treaty
- Non-Finalized Accounts
- Policy Statistics Non-Life
- Loss Event Report
- True Up
- Comparison of Financial Periods
- Treaty Statistics

A more recent version of the tiles was created and added to the groups.

**Information related to the business process**

The impact on business processes depends on the use of the obsolete objects.

**Required and recommended action(s)**

Check whether you used the obsolete objects. If this is the case, you must replace them with the newly created objects.

**53.15S4TWL - FS-RI - Interface adaption of the navigation tree**

Application Components:FS-RI-LRM

Related Notes:
### Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 3225429 | Transition to SAP S/4HANA - FS-RI - interface adjustment in navigation tree

**Symptom**

You are performing a system conversion to SAP S/4HANA 2022.

**Reason and Prerequisites**

This SAP Note is relevant if your source release for the system conversion is an ERP release or an SAP S/4HANA release up to and including SAP S/4 HANA 2021.

It is not relevant if your source release is SAP S/4HANA Finance.

**Solution**

**Description**

Methods were adjusted in Release SAP S/4HANA 2022:

- Class /MSG/CL_VRB_DT_MGR

The following methods have been renamed:

  - create_tree_mpol_new becomes create_tree_mpol
  - create_tree_node_new becomes create_tree_node
  - create_tree_oapp_new becomes create_tree_oapp
  - create_tree_olife_new becomes create_tree_olife
  - make_tree_by_ref_new becomes make_tree_by_ref
  - start_op_new becomes start_op
  - mpol_new becomes mpol
  - oappl_new becomes oappl
  - olife_new becomes olife
  - opol_new becomes opol

- Class /MSG/CL_VRB_RDF_CONTAINER

  - The FILL method has been deleted.
  - The method FILL__NEW has been renamed FILL.

**Information related to the business process**

The impact on business processes depends on how you use the deleted/renamed objects.
Required and recommended action(s)

Check whether you use the deleted/renamed objects specified in the object list and in this SAP Note. If so, you must replace the deleted/renamed objects.

To do this, replace the objects as described in the SAP Note text. If there is no replacement, you will have to implement a replacement yourself if necessary.

Other Terms

Navigation tree

53.16S4TWL - FS-RI – Announcement of deletion of obsolete RAM APIs

Application Components: FS-RI-RAM, XX-PART-MSG-RAM

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>3260792</td>
<td>S4TWL - FS-RI - Announcement of deletion of obsolete RAM APIs</td>
</tr>
</tbody>
</table>

Symptom

You want to perform a system conversion from EHP7 FOR SAP ERP 6.0 - 06 (10/2014) or higher, or a release upgrade from SAP S/4HANA 1709, SAP S/4HANA 1809, SAP S/4HANA 1909, SAP S/4HANA 2020, or SAP S/4HANA 2021 to SAP S/4HANA 2022 or higher.

Reason and Prerequisites

This SAP Note is relevant if your current release is EHP7 FOR SAP ERP 6.0 - 06 (10/2014) or higher, SAP S/4HANA 1709, SAP S/4HANA 1809, SAP S/4HANA 1909, SAP S/4HANA 2020, or SAP S/4HANA 2021.

It is not relevant if you do not use any of the obsolete objects.

Solution

Description

The following function modules are deprecated with SAP S/4HANA 2022.
Information related to the business process

If your target release is SAP S/4HANA 2022, using the obsolete function modules has no effect for the time being. However, we recommend that you start using the replacing function modules as soon as possible.

Required and recommended action(s)

Check whether you used the obsolete objects. If this is the case, you must replace them with the newly created objects.

- `/MRA/A2A_IR_P_CONFIRM` is replaced by `/MRA/A2A_IR_P_CONFIRM_V2`
- `/MRA/A2X_IR_P_CHK_COVERAGE` is replaced by `/MRA/A2X_IR_P_CHK_COVERAGE_V2`
- `/MRA/A2X_IR_P_CONFIRM` is replaced by `/MRA/A2X_IR_P_CONFIRM_V2`
- `/MRA/A2X_IR_P_ALLOC_PRECESSION` is replaced by `/MRA/A2X_IR_P_ALLOC_PRECESSION_V2`
- `/MRA/A2X_RR_P_CHK_COVERAGE` is replaced by `/MRA/A2X_RR_P_CHK_COVERAGE_V2`
- `/MRA/A2X_RR_P_CONFIRM` is replaced by `/MRA/A2X_RR_P_CONFIRM_V2`
- `/MRA/A2X_RR_M_PRECESSION_V2` is replaced by `/MRA/A2X_RR_M_PRECESSION_V3`
- `/MRA/A2X_RR_F_BY_ELEMENTS_V2` is replaced by `/MRA/A2X_RR_F_BY_ELEMENTS_V3`

Other Terms

Risk Aggregation Management (RAM)

`/MRA/A2A_IR_P_CONFIRM`
`/MRA/A2X_IR_P_CHK_COVERAGE`
`/MRA/A2X_IR_P_CONFIRM`
`/MRA/A2X_IR_P_ALLOC_PRECESSION`
53.17S4TWL - FS-RI - Correction of misleading method names

Application Components: FS-RI-LRM

Related Notes:

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<tr>
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<th>Note Description</th>
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<td>Business Impact</td>
<td>3310949</td>
<td>Transition to SAP S/4HANA - FS-RI: correction of misleading method names</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA 2023.

Reason and Prerequisites

This SAP Note is relevant if your source release for the system conversion is an ERP release or an SAP S/4HANA release up to and including SAP S/4 HANA 2022.

It is not relevant if your source release is SAP S/4HANA Finance.

Solution

Description

The following methods were adjusted in Release SAP S/4HANA 2023:

- Class /MSG/CL_VF_DP_RULESET_POLICY
  - allowed_movement_status wird forbidden_movement_status

The following parameters were adjusted in Release SAP S/4HANA 2023:

- Class /MSG/CL_VF_DP_UNUSED_OBJECTS
  - Method restrictions
    - et_allowed_status wird et_allowed_pc_status
    - et_mov_status wird et_forbidden_mov_status

Information related to the business process
The impact on business processes depends on how you use the renamed objects.

**Required and recommended action(s)**

Check whether you are using the renamed objects specified in the object list and in this SAP Note. If so, you must replace the renamed objects.

To do this, replace the objects as described in the SAP Note text.

**Other Terms**

Anonymization

**53.18S4TWL - FS-RI - Deletion of obsolete Claim Methods**

Application Components: FS-RI-LRM, XX-PART-MSG-LRM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3105510</td>
<td>Transition to SAP S/4HANA - FS-RI - deletion of obsolete claim methods</td>
</tr>
</tbody>
</table>

**Symptom**

You are performing a system conversion to SAP S/4HANA 2021.

**Reason and Prerequisites**

This SAP Note is relevant if your source release for the system conversion is an ERP release or an SAP S/4HANA release up to and including SAP S/4 HANA 2020.

It is not relevant if your source release is SAP S/4HANA Finance.

**Solution**

**Description**

In the Release SAP S/4HANA 2021, the following methods are deleted and no longer available:

- Class /MSG/CL_VRP_LIB_BO_CLAIM_MOV:
  - calc_claim_amounts
Information related to the business process

The impact on business processes depends on how you use the deleted objects.

Required action(s)

Check whether you use the deleted objects specified in the object list and in this SAP Note. If so, you must replace the deleted objects views.

No replacement is provided for the deleted objects.

Other Terms

- Loss
- Distribution of claim amounts

53.19S4TWL - Insurance localization for Russia - deprecation

Application Components: FS-CM-LC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2978033</td>
<td>S4TWL - RU insurance localization - deprecation of package /GSINS/RU</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this Note. The following SAP S/4HANA Simplification Item is applicable in this case.

Reason and Prerequisites

Insurance Localization FS-CM for Russia installed.

Solution

Description

Package /GSINS/RU and it contents becomes obsolete because of no customer usage. Objects stored in the package and corresponding subpackages are removed including their references from other objects.

Business Process related information

Insurance localization for Russia stored in the package /GSINS/RU and it's subpackages is not being used and has been deprecated in S/4HANA OP2021 and became obsolete in all the supported lower versions.

Regarding S/4HANA OP2021 release, for transition period of 2 years the package and it's subpackages has been moved to SW component 'S4DEPREC' if the restoration of the functionality is needed.

Note content:

1) Existing references in objects ('Ref. Object Name') pointing to the objects in the package /GSINS/RU and it's subpackages were removed:

<table>
<thead>
<tr>
<th>Object Name</th>
<th>Package</th>
<th>Application Area</th>
<th>Software Component</th>
<th>Info Use</th>
<th>Ref. Object Type</th>
<th>Ref. Object Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>/GSINS/CL_CHECK_EHP</td>
<td>/GSINS/R EU</td>
<td>FS-CM- LC</td>
<td>INSURANCE</td>
<td>-enh</td>
<td>ENH</td>
<td>/GSINS/CL_FSCM_LOC_T R_605</td>
</tr>
</tbody>
</table>

2) Following programs contained in subpackages of main package /GSINS/RU were deactivated, cannot be executed:
<table>
<thead>
<tr>
<th>Program</th>
<th>Transaction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/CEEIS/RU_FSCD_RI_DEBTS</td>
<td>/CEEIS/RU_F10_23</td>
<td>FS-CD: Form 10, Appendix 1, Rep.: 2.3, 3.3 - Reinsurance operations</td>
</tr>
<tr>
<td>/CEEIS/RU_FSCD_RI_PAYM</td>
<td>/CEEIS/RU_F10_21</td>
<td>FS-CD: Form 10, Appendix 1, Rep.: 2.1, 3.1 - Reinsurance operations</td>
</tr>
<tr>
<td>/CEEIS/RU_FSCD_RI_RISPA</td>
<td>/CEEIS/RU_F10_22</td>
<td>FS-CD: Form 10, Appendix 1, Rep.: 2.2, 3.2 - Reinsurance operations</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_31</td>
<td>/CEEIS/RU_F10_32</td>
<td></td>
</tr>
<tr>
<td>/GSINS/CLAIM_REP_PRINT</td>
<td>/GSINS/CLAIMREP</td>
<td>Claim Report (Russia)</td>
</tr>
<tr>
<td>/GSINS/DTINF_ADJ_8755CE1E62E67</td>
<td>N/A</td>
<td>Archiving of MTPL: Delete (Russia)</td>
</tr>
<tr>
<td>/GSINS/MTPL_ARCHIVE_DELETE</td>
<td>N/A</td>
<td>Archiving of MTPL: Delete (Russia)</td>
</tr>
<tr>
<td>/GSINS/MTPL_ARCHIVE_WRITE</td>
<td>N/A</td>
<td>Archiving of MTPL: Write (Russia)</td>
</tr>
<tr>
<td>/GSINS/MTPL_COMPOSE_SEGMENT3</td>
<td>/GSINS/MTPL_SEGMENT3</td>
<td>Segment Three (Russia)</td>
</tr>
<tr>
<td>/GSINS/OLR_ARCHIVE_DELETE</td>
<td>N/A</td>
<td>Archiving of Open Loss Reserves: Delete (Russia)</td>
</tr>
<tr>
<td>/GSINS/OLR_ARCHIVE_WRITE</td>
<td>N/A</td>
<td>Archiving of Open Loss Reserves: Write (Russia)</td>
</tr>
<tr>
<td>/GSINS/OLR_CREATE_PTERM</td>
<td>/GSINS/PTERM_CREATE</td>
<td>Create Insurance Premiums (Russia)</td>
</tr>
<tr>
<td>/GSINS/OLR_DISPLAY_PTERM</td>
<td>/GSINS/PTERM_DISPLAY</td>
<td>Display Insurance Premiums (Russia)</td>
</tr>
<tr>
<td>/GSINS/OLR_reserve_calc</td>
<td>/GSINS/RESERVE_CALC</td>
<td>Reserve Calculation of Claimed but Unsettled Losses (Russia)</td>
</tr>
</tbody>
</table>
3) Following **transactions** were set as **obsolete in SU22 transaction**, so these cannot be executed:

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/CEEIS/RU_F1</td>
<td>F1.: Balance</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_1</td>
<td>F10.p1.: Reinsurance operations</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_21</td>
<td>F10.p2.1.: Reinsurer's Premiums</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_22</td>
<td>F10.p2.2.: Reinsurer's Payments</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_23</td>
<td>F10.p2.3.: Reinsurer's Liabilities</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_31</td>
<td>F10.p3.1.: Cedent's Premiums</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_32</td>
<td>F10.p3.2.: Cedent's Payments</td>
</tr>
<tr>
<td>/CEEIS/RU_F10_33</td>
<td>F10.p3.3.: Cedent's Liabilities</td>
</tr>
<tr>
<td>/CEEIS/RU_F11</td>
<td>F11.: Info about operational segment</td>
</tr>
<tr>
<td>/CEEIS/RU_F2</td>
<td>F2.: Profits and Losses</td>
</tr>
<tr>
<td>/CEEIS/RU_F2_SP</td>
<td>F2.: Profits and Losses; Appendix</td>
</tr>
<tr>
<td>/CEEIS/RU_F3_1</td>
<td>F3.p1.: Capital changes</td>
</tr>
<tr>
<td>/CEEIS/RU_F3_2</td>
<td>F3.p2.: Reserves</td>
</tr>
<tr>
<td>/CEEIS/RU_F3_3</td>
<td>F3.: Reference</td>
</tr>
<tr>
<td>/CEEIS/RU_F3_NA</td>
<td>F3.: Net assets value calculation</td>
</tr>
<tr>
<td>/CEEIS/RU_F5_3</td>
<td>F5.p3.: Financial investments</td>
</tr>
<tr>
<td>/CEEIS/RU_F5_4</td>
<td>F5.p4.: Payables and receivables</td>
</tr>
<tr>
<td>/CEEIS/RU_F5_5</td>
<td>F5.p5.: Expences</td>
</tr>
</tbody>
</table>

Reserves of Russia posting
Additional Account Assignment Installation (Russia)
Archiving of UPR (Unearned Premium Reserve): Delete
Archiving of UPR (Unearned Premium Reserve): Write
Unearned Premium Reserve Calculation Results (Russia)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/CEEIS/ RU_F6_1</td>
<td>F6.p1.: Solvency margin of insurer</td>
</tr>
<tr>
<td>/CEEIS/ RU_F6_2</td>
<td>F6.p2.: Solvency margin of insurer</td>
</tr>
<tr>
<td>/CEEIS/ RU_F7_1</td>
<td>F7.p1.: Insur. reserves investment</td>
</tr>
<tr>
<td>/CEEIS/ RU_F8_1</td>
<td>F8.p1.: Insurance reserves</td>
</tr>
<tr>
<td>/CEEIS/ RU_F8_2</td>
<td>F8.p2.: Insurance reserves</td>
</tr>
<tr>
<td>/CEEIS/ RU_F8_2_131</td>
<td>F8.p2.: Insurance reserves; A.g.13.1</td>
</tr>
<tr>
<td>/CEEIS/ RU_F8_2_131A</td>
<td>F8.p2.: Insur.reserves A.g.13.1.Apdx</td>
</tr>
<tr>
<td>/CEEIS/ RU_F8_2A</td>
<td>F8.p2.: Insurance reserves Append.</td>
</tr>
<tr>
<td>/CEEIS/ RU_F9_1</td>
<td>F9.p1.: PMR</td>
</tr>
<tr>
<td>/CEEIS/ RU_F9_2</td>
<td>F9.p2.: PMR</td>
</tr>
<tr>
<td>/GSINS/ 08000983</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 08000985</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 08000986</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000001</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000003</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000005</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000006</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000007</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000008</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000009</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000010</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000011</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000012</td>
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<tr>
<td>/GSINS/ 57000013</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000014</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ 57000015</td>
<td></td>
</tr>
<tr>
<td>/GSINS/ CLAIMREP</td>
<td>Print claim report</td>
</tr>
<tr>
<td>/GSINS/ MTPL_SEGMENT3</td>
<td>Composing of segment 3</td>
</tr>
<tr>
<td>/GSINS/ OLR</td>
<td>Define Res. Period for OLR</td>
</tr>
<tr>
<td>/GSINS/ PTERM_CREATE</td>
<td>Create Insurance Premium</td>
</tr>
<tr>
<td>/GSINS/ PTERM_DISPLAY</td>
<td>Display Insurance Premium</td>
</tr>
<tr>
<td>/GSINS/ RESERVE_CALC</td>
<td>Reserve Calculation of Losses</td>
</tr>
<tr>
<td>/GSINS/ REU_AC CGFI</td>
<td>Selection rules of FI tables content</td>
</tr>
<tr>
<td>/GSINS/ REU_E TL</td>
<td>Insurance ETL customizing</td>
</tr>
<tr>
<td>/GSINS/ REU_RST</td>
<td>Retraction customizing</td>
</tr>
<tr>
<td>/GSINS/ REU_RTR</td>
<td>Reserve to FI retraction</td>
</tr>
<tr>
<td>/GSINS/ RUAC_AAAI_INS</td>
<td>Additional Account Assignment Instal</td>
</tr>
</tbody>
</table>
Simplification List for SAP S/4HANA Cloud, private Edition 2023 – Initial Shipment

| /GSINS/RUAC_AC_GR               | Maintain Customer Accounting Groups |
| /GSINS/UPR_CALC                 | Calculations for Company Codes      |
| /GSINS/UPR_CHARG                | Charges - Percentage                |
| /GSINS/UPR_DISP                 | Display Calculated Results          |
| /GSINS/UPR_FCALC                | Calculations Methods                |
| /GSINS/UPR_HKONT                | Allowed General Ledger Accounts     |
| /GSINS/UPR_UFUN                 | Function Module for User Exits      |

**Required and Recommended Action(s)**

In general, SAP recommends that you install a solution by applying a Support Package. You can find more information about the Note Assistant in SAP Service Marketplace, under service.sap.com/note-assistant.

However, if you need to install a solution earlier, use the Note Assistant to implement and follow these steps:

**IMPORTANT:**

To complete the installation procedure for **S4TWL - RU insurance localization - deprecation of package /GSINS/RU** you have to implement the automatic correction instructions from this Note 2978033.

Remember, that you cannot use your own coding/functionality anymore which is based on the removed coding/functionality, explained in this Note 2978033.

**Other Terms**

Russia, Insurance, /GSINS/RU, S4DEPREC, deprecation, obsolete

**53.20S4TWL - Insurance localization for Turkey**

Application Components: FS-CM-LC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3164537</td>
<td>S4TWL - TR insurance localization - deprecation of package /GSINS/TR</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this Note.

The following SAP S/4HANA Simplification Item SI8: GSFIN_Insurance_TR is applicable in this case.

**Reason and Prerequisites**

Prerequisite: Insurance Localization FS-CM for Turkey installed.

Reason for deprecation:

- TRAMER functionality could be used to export automotive insurance related information in a specific format as XML in order to submit it to authorities in Turkey.
- the functionality is not usable anymore without customer modification, as the export format defined by the Turkish government has changed since initial delivery of the functionality, but it was never adapted to the new format.
- hence today customers already use other means to export this data from the system in the required format (eg. export to external text file and perform mapping to a suitable XML format with XSLT or via 3rd party, own code...).

**Solution**

**Description**

Package /GSINS/TR and it contents becomes obsolete because of no customer usage. Objects stored in the package and corresponding subpackages are removed including their references from other objects.

TRAMER functionality has already been put on the blocklist and hence will not be usable anymore without intervention in S/4HANA OP2022 release.

**Business Process related information**

Insurance localization for Turkey stored in the package /GSINS/TR and it's subpackages is not being used and has been deprecated in S/4HANA OP2022 and became obsolete in all the supported lower versions.

Regarding S/4HANA OP2022 release, for transition period of 2 years the package and it's subpackages has been moved to SW component 'S4DEPREC' if the restoration of the functionality is needed.

Note content:
1) Existing references in objects (‘Ref. Object Name’) pointing to the objects in the package /GSINS/TR and its subpackages were removed:

<table>
<thead>
<tr>
<th>Object Name</th>
<th>Package</th>
<th>Application Area</th>
<th>Software Component</th>
<th>Info</th>
<th>Ref. Object Type</th>
<th>Ref. Object Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>/GSINS/TR_CL_SWITCH_CHECK</td>
<td>/GSINS/TR_REU</td>
<td>FS-CM-LC-INSURANCE</td>
<td>used by REP S</td>
<td></td>
<td></td>
<td>LICL_MINI_BP F04</td>
</tr>
</tbody>
</table>

2) Following transactions were set as obsolete in SU22 transaction, so these cannot be executed:

<table>
<thead>
<tr>
<th>Transaction</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>/GSINS/770000010</td>
<td>Define Transformation Definitions</td>
</tr>
<tr>
<td>/GSINS/770000009</td>
<td>Assign Internal Claim Types to TRAMER Transformation</td>
</tr>
<tr>
<td>/GSINS/770000008</td>
<td>obsolete</td>
</tr>
<tr>
<td>/GSINS/770000011</td>
<td>BAdI: XML Structure Modification for Transformation KASKO</td>
</tr>
<tr>
<td>/GSINS/770000011</td>
<td>BAdI: XML Structure Modification for Transformation TRAFIK</td>
</tr>
<tr>
<td>/GSINS/TR_TRAMER</td>
<td>XML File Generation TRAMER Reporting</td>
</tr>
</tbody>
</table>

**Required and Recommended Action(s)**

In general, SAP recommends that you install a solution by applying a Support Package. You can find more information about the Note Assistant in SAP Service Marketplace, under service.sap.com/note-assistant.

However, if you need to install a solution earlier, use the Note Assistant to implement and follow these steps:

**IMPORTANT:**

To complete the installation procedure for **S4TWL - TR insurance localization - deprecation of package /GSINS/TR** you have to implement the automatic correction instructions from this Note 3164537.

Remember, that you cannot use your own coding/functionality anymore which is based on the removed coding/functionality, explained in this Note 3164537.

**Other Terms**
Turkey, Insurance, /GSINS/TR, S4DEPREC, deprecation, obsolete
54. Industry Media

54.1 S4TWL - SAP Media availability in SAP S/4HANA

Application Components: IS-M

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2506999</td>
<td>S4TWL - Industry Solution SAP Media and SAP S/4HANA</td>
</tr>
</tbody>
</table>

**Symptom**

You are planning a system conversion to SAP S/4HANA, on Premise Edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The industry solution SAP Media is not available in SAP S/4HANA, on-premise edition.

None of the media-specific SAP-GUI transactions is released and must not be used in SAP S/4HANA.

**Solution**

Customers using the Media Product Master in ERP and no additional functions of the industry solution SAP Media can use comparable functions in SAP S/4HANA core. The respective functions are available with SAP S/4HANA, on Premise Edition 1709. See SAP Note 2499057.

**How to determine relevancy**

Your start release for the system conversion is an ERP release and has at least one business function of the industry business function set Media active.

Customers using additional media-specific functions have the following options:

- run SAP Media on a SAP Business Suite on HANA release (if you want to use SAP HANA as a database for the SAP Business Suite and / or you want to benefit from the improved functionality of SAP S/4HANA FINANCE Add-on).

- run SAP S/4HANA without SAP Media as separate installation.
Other Terms

SAP Media, Media Product Master

54.2 S4TWL - Media Product Master

Application Components: CA-MDG

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2499057</td>
<td>S4TWL - Media Product Master and SAP S/4HANA</td>
</tr>
</tbody>
</table>

Symptom

You are planning a system conversion to SAP S/4HANA, on Premise Edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

The industry solution SAP Media is not available in SAP S/4HANA, on premise edition.

Solution

Customers using the Media Product Master in ERP and no additional functions of the industry solution SAP Media can use comparable functions in SAP S/4HANA core. The respective functions are available with SAP S/4HANA, on Premise Edition 1709.

Business Process related information

- Maintain logical hierarchies of media products, such as multiple editions under a parent title or multiple episodes under a parent series. The number of hierarchy levels can be defined as needed.
- Media-specific and custom fields which were stored in an industry-specific append of table MARA in ERP can be defined using the field extensibility tool of SAP FIORI.
- The standard FIORI apps of the Product Master can be used to maintain the Media Product Masters themselves and relationships between Media Product Masters.
- The industry-specific SAP GUI transactions are no longer available.
- The assignment of business partners to Media Product Masters is not supported in SAP S/4HANA.
Required and recommended actions

For required actions follow the instructions given in the conversion documentation attached to SAP Note 2499057.

How to determine relevancy

The business function TITLE LIFECYCLE MANAGEMENT of the industry business function set Media is active and you have created media product master records.

Other Terms

SAP Media, IS Media, Media Product Master, System Conversion, Industry Solution
**55. Industry Oil**

**55.1 S4TWL- ACM - Simplification for Contract Approval**

Application Components: LO-AGR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2468737</td>
<td>Business Impact Note for S4TWL - Changes in ACM (Agricultural Contract Management) Functionality</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion of ACM (Agricultural Contract Management) from SAP ERP EHP6 or higher to SAP S/4 HANA on-Premise edition. The following SAP S/4HANA business impact note is applicable in this case.

**Reason and Prerequisites**

For ACM, Contract Approval and certain other functionality in other modules like Orchestration Framework, Application Menu and settlement won’t work seamlessly when accessed from SAP GUI or SAP Fiori launchpad. Functionalities like Prepayment and External Interfacing are obsolete and no longer available in ACM on S/4HANA.

Several other functionalities available in the ACM (SAP ERP EHP6 or higher) ADDON are on the roadmap for the future releases of ACM on S/4HANA.

**Solution**

In SAP S/4HANA for ACM some applications are not available anymore or changed.

1. **Contract approval tab deprecated**

   The contract “Approval” tab in the trading contract has now been removed.

   The status of contracts is now being managed from GTM Status Management as below:

   1. Select Status from available ‘Application Status’ under Status Tab
   2. Click on ‘Set Status’ button to apply the selected status

2. **Configuration for GTM contract status**
The complete GTM contract status management has to be set up as below:


a. Create new entries for Status Group.

<table>
<thead>
<tr>
<th>Status Group</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>ACM Contract Status Group</td>
</tr>
</tbody>
</table>

b. Define Status for Status Group – Select a status from the “Status Groups” list and maintain the application status.

<table>
<thead>
<tr>
<th>App. Status</th>
<th>Status Name</th>
<th>Workflow Event</th>
<th>Event Trigger</th>
<th>Default Status Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>O</td>
<td>Ready for Archiving</td>
<td>On Saving</td>
<td></td>
<td>No Default Status</td>
</tr>
<tr>
<td>T</td>
<td>Approved</td>
<td>On Saving</td>
<td></td>
<td>No Default Status</td>
</tr>
<tr>
<td>U</td>
<td>Draft</td>
<td>On Saving</td>
<td></td>
<td>No Default Status</td>
</tr>
</tbody>
</table>

c. Assign Status group to Contract Type


Double click on contract type and assign status group maintained above.

3. Configuration for mapping contract status to call-off and position relevance


<table>
<thead>
<tr>
<th>App Status</th>
<th>Status Category</th>
<th>Position Relevant</th>
<th>Snap. Relevant</th>
<th>App. Status Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>Call-Off/Application Relevant</td>
<td>X</td>
<td></td>
<td>Approved</td>
</tr>
</tbody>
</table>

4. During system conversion, contracts status management relevant changes, for the contracts which were created in ECC, will be handled automatically when the ACM XPRA: /ACCGO/XPRA_CAKHDR is executed.

Contracts with the approval indicator set would be converted as follows:

The field ‘BTBSTA’ of WBHK would be changed to ‘T’.

**Required and Recommended Action(s):** Adjust customer specific coding accordingly.

Run the steps mentioned in SAP notes 2481713.
If you are converting from ACM ECC (with IS-OIL OFF) to ACM on S/4 HANA OP 1709 FP00 (software component, IS-OIL) please run the steps mentioned in note 2481873.

Other Terms

IS-OIL, ACM, Agricultural Contract Management, upgrade, S/4HANA OnPrem, system conversion

55.2 S4TWL- ACM: Simplification for Pre-payment and External Interfacing

Application Components: LO-AGR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2468819</td>
<td>Business Impact Note for S4TWL- ACM: Simplification for Pre-payment and External Interfacing</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion of ACM (Agricultural Contract Management) from SAP ERP EHP6 or higher (ACCGO 100, ACCGO 300) to SAP S/4 HANA on-Premise edition 1709 FP00

Reason and Prerequisites

Certain ACM functionalities in ACM (SAP ERP EHP6 or higher - ACCGO 100, ACCGO 300) ADDON won't work seemlessly in S/4HANA 1709 FP00 when accessed from SAP GUI or SAP Fiori launchpad.

Solution

Recommended Action: Run the steps mentioned in business impact note 2468737 - Business Impact Note for S4TWL - Changes in ACM (Agricultural Contract Management) Functionality

Other Terms

IS-OIL, ACM, Agricultural Contract Management, upgrade, S/4HANA OnPrem 1709 FP00, system conversion
55.3 S4TWL - ACM: Simplification of Cross Topics

Application Components: LO-AGR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2468833</td>
<td>Business Impact Note for S4TWL - ACM: Simplification of Cross Topics</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion of ACM (Agricultural Contract Management) from SAP ERP EHP6 or higher (ACCGO 100, ACCGO 300) to SAP S/4 HANA on-Premise edition 1709 FP00.

**Reason and Prerequisites**

Certain ACM functionalities in ACM (SAP ERP EHP6 or higher - ACCGO 100, ACCGO 300) ADDON won't work seamlessly in S/4HANA 1709 FP00 when accessed from SAP GUI or SAP Fiori launchpad.

**Solution**


**Other Terms**

IS-OIL, ACM, Agricultural Contract Management, upgrade, S/4HANA OnPrem 1709 FP00, system conversion

55.4 S4TWL - ACM: Simplification of Application Document Batch Split Process

Application Components: LO-AGR

Related Notes:
<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3017200</td>
<td>S4TWL - ACM: Simplification of Application Document Batch Split Process</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion of ACM (Agricultural Contract Management) from SAP ECC(ACCGO 400) to SAP S/4HANA on-premise edition 2020 FPS01 or a higher release.

**Reason and Prerequisites**

Application document process changed with respect to batch managed material

Going forward from the S4HANA release 2020 FPS01 the Application document will not be split on the basis of the batches mentioned on the Load Data Capture(LDC) if Feature switch (MERGE_APP)( Logistics - General under Global Trade Management -> Agricultural Contract Management -> Basic Settings -> Activate Feature Switches.) is checked.

**Solution**

Recommended action: Its recommended to check all the active application documents which have been split due to more than one batch on the LDC and complete those transactions before performing the conversion to S4HANA 2020 FPS01 or higher release.

If already converted to Higher release Activate the feature switch Feature switch (MERGE_APP)( Logistics - General under Global Trade Management -> Agricultural Contract Management -> Basic Settings -> Activate Feature Switches.) then use the transaction code /ACCGO/ACM_BSPL_CORR to correct the Application document by performing the Correction of the Same LDC Document and form the New sets of the logistics document.

**Other Terms**

IS-OIL, ACM, Agricultural Contract Management, upgrade, S/4HANA OnPrem 2020 FPS01, system conversion
55.5 S4TWL - ACM Temporary Lots for Draft Contracts

Application Components: LO-AGR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3086524</td>
<td>S4TWL - ACM Temporary Lots for Draft Contracts</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

A system upgrade/ conversion is about to be done and the source system is one of the following releases:

- ACM 4.0
- ACM on SAP S/4HANA 1709 - All releases
- ACM on SAP S/4HANA 1809 - FPS00
- ACM on SAP S/4HANA 1809 - FPS01
- ACM on SAP S/4HANA 1809 - FPS02
- ACM on SAP S/4HANA 1909 - FPS00
- ACM on SAP S/4HANA 1909 - FPS01
- ACM on SAP S/4HANA 1909 - FPS02
- ACM on SAP S/4HANA 2020 - FPS00

The target system is 'ACM on SAP S/4HANA 2020 FPS01' or a higher release.

Post-conversion/upgrade, dumps occurs because of the existence of multiple active BAdI implementations of the BAdI definition BADI_CPE_FE_RED_DATE_ROUTINE for the same filter value '9999999'. This prevents execution of various ACM transactions and prevents successful execution of the SDM /ACCGO/CL_SDM_ACM_V_SDMNPEL.

Important Note:

- The manual instruction in this note must only be implemented after all the productive activities in the system have been halted in preparation for the conversion/upgrade.
- The transport-request in which the implementation of this note is captured must be released to all follow-on systems to prevent occurrence of this issue in those systems.

Reason and Prerequisites
This step is needed to prevent the occurrence of dumps because of the existence of multiple BAdI implementations of the BAdI definition BADI_CPE_FE_REF_DATE_ROUTINE for the same filter value '9999999'.

**Solution**

**Required and Recommended Action(s)**

- Run the steps mentioned in SAP Note - 3094714- S4TC ACM Pre-Checks for Data Migration of /ACCGO/T_NPELOTS table in the source system
- The manual instruction in this note must only be implemented after all the productive activities in the system have been halted in preparation for the conversion/upgrade.
- The transport-request in which the implementation of this note is captured must be released to all follow-on systems to prevent occurrence of this issue in those systems.
- Please implement the manual correction instructions attached to this note.

**Other Terms**

Pre-upgrade/conversion step for upgrade/conversion to ACM on S/4HANA 2021 FPS01 or higher releases

**55.6 S4TWL - Handling Oil & Gas obsolete t-codes Oil**

Application Components: IS-OIL-DS

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2328674</td>
<td>S4TWL: OIL Transaction codes will not be available.</td>
</tr>
</tbody>
</table>

**Symptom**

You are using a SAP ERP system and intend to perform the upgrade-like conversion to SAP S/4 HANA 1610.

With the installation of the SAP S/4HANA on premise edition certain Transaction codes in the application areas of IS-OIL compared to EhP7 for SAP ERP 6.0 - have been deprecated/removed and partially replaced with newer transactions.
Transaction codes which are not supported or replaced by newer applications in SAP S/4HANA IS-OIL are listed below.

**Reason and Prerequisites**

SAP ERP contains few SAPGUI transactions in SAP IS-OIL in Older versions will not be available, but are still supported for compatibility reasons.

With the installation of the SAP S/4HANA on premise edition 1610, certain transaction codes in the application areas of IS-OIL - compared to EhP7 for SAP ERP 6.0 - will not be available and partially replaced with newer transactions.

**Solution**

All usages of SAP few OIL transaction codes will not be available, and partially replaced with newer transactions.

Below you find a list of OIL Tcodes and the respective successor Tcode if a successor Tcode is available.

It is recommended to use the successor Tcode instead of the older Tcode.

Reference to obsolete transactions in BAPIs/BDC/LSMW etc. should be adapted to new transaction code.

<table>
<thead>
<tr>
<th>Obsolete Transaction code</th>
<th>Older Transaction Code</th>
<th>Successor Tcode</th>
</tr>
</thead>
<tbody>
<tr>
<td>O0300</td>
<td>IS-Oil Administration info system</td>
<td>SE43</td>
</tr>
<tr>
<td>O03C1</td>
<td>Create Oil Conversion Defaults</td>
<td>O3DEFAULTTS</td>
</tr>
<tr>
<td>O03C2</td>
<td>Change Oil Conversion Defaults</td>
<td>O3DEFAULTTS</td>
</tr>
<tr>
<td>O4KC</td>
<td>Revaluation active check report 2/2</td>
<td>No Replacement available</td>
</tr>
<tr>
<td>O4KE</td>
<td>Excise Duty Valuation record 2/3</td>
<td>No Replacement available</td>
</tr>
<tr>
<td>O4KG</td>
<td>Excise Duty Stock values 2/3</td>
<td>No Replacement available</td>
</tr>
<tr>
<td>O4KH</td>
<td>Excise Duty Stock values 3/3</td>
<td>No Replacement available</td>
</tr>
<tr>
<td>O4KI</td>
<td>Excise Duty Valuation record 3/3</td>
<td>No Replacement available</td>
</tr>
<tr>
<td>O4NC</td>
<td>Create Nomination</td>
<td>O4NCN/O4NM</td>
</tr>
<tr>
<td>O4NS</td>
<td>Display Nomination</td>
<td>O4NSN/O4NM</td>
</tr>
<tr>
<td>O4NV</td>
<td>Change Nomination</td>
<td>O4NM</td>
</tr>
<tr>
<td>O4TE</td>
<td>IS-OIL TSW (Trader's &amp; Scheduler's W</td>
<td>No Replacement available</td>
</tr>
<tr>
<td>O4TEC</td>
<td>Generate Stock Projection</td>
<td>O4TCN</td>
</tr>
<tr>
<td>O4TECB</td>
<td>Generate Stock Projection for batch</td>
<td>O4TCN</td>
</tr>
<tr>
<td>O4TDL</td>
<td>OIL-TSW Delete Location</td>
<td>O402</td>
</tr>
<tr>
<td>O4TE</td>
<td>OIL-TSW: Enter movement ticket</td>
<td>O4TEN</td>
</tr>
<tr>
<td>O4TE_CORRECT</td>
<td>OIL-TSW: Correct ticket actualization</td>
<td>O4TENCORR</td>
</tr>
<tr>
<td>O4TE_REVERSE</td>
<td>OIL-TSW: Reverse ticket actualization</td>
<td>O4TENREV</td>
</tr>
<tr>
<td>O4TF</td>
<td>OIL-TSW: Change ticket</td>
<td>O4TFN</td>
</tr>
<tr>
<td>O4TG</td>
<td>OIL-TSW: Display Ticket</td>
<td>O4TGN</td>
</tr>
</tbody>
</table>
How to Determine Relevancy

This item is relevant for all IS-Oil customer

Other Terms

S/4HANA, SFIN and IS-OIL & GAS

55.7 S4TWL - Optimization in Oil & Gas - TD module for STO and sales order with POD b

Application Components: IS-OIL-DS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2328639</td>
<td>S4TWL - Optimization in Oil &amp; Gas - TD module for STO and sales order with POD b</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition 1610.

This is an IS-OIL note for the SAP S/4HANA on premise 1610 release. If you do not have IS-OIL, this note doesn’t apply to you. This note is specific to TD -Sales Orders with PoD Check & Intra Company STOs

The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

While performing Load Confirmation (TD process- O4G1) for Sales Order (with PoD) & STO process, the system would throw an error saying ‘there is no stock in Intransit storage location XXXX for the given material’. This is because of the new SAP S/4HANA MM-IM optimization and performance re-design during execution of MIGO.
When we perform load confirmation for example, in STO the movements which will post are 311 which will put the stock to in transit (Vehicle) and then this will be issued with a 647(GI) movement followed by 101 movement all in single material document.

But now in SAP S/4HANA re-design data model, we have separate stock checks for 311 movement, 647& 101 respectively, resulting in stock deficit as it is not considering the fact that the same posting is also bringing in stock.

Solution

This issue is handled by splitting into two material documents – one material document for 311 movement (stock into in transit) and another material document for 641/647 (in case of STO) followed by 101 movement for the same outbound delivery at the time of load confirmation

Software Components

IS-OIL

Languages

English

How to Determine Relevancy

This item is relevant for all IS-Oil customer

55.8 S4TWL - Data Model in Oil & Gas Inventory management

Application Components: IS-OIL-DS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2328419</td>
<td>S4TWL-Data Model in Oil &amp; Gas Inventory management</td>
</tr>
</tbody>
</table>

Symptom

You are an Oil and Gas customer and doing a system conversion to SAP S/4HANA on-premise edition 1610. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

The SAP ERP 6.0 stock inventory management data model consists of the two document tables MKPF for document header information and MSEG for document item data. In addition Oil & Gas has MSEGO1 for quantity conversion parameters for material documents and MSEGO2 Material Document Quantities in Additional Units of Measure. Additionally there were aggregated actual stock quantity data stored in several tables. Some of these tables do also store material master data attributes like the tables MARCO1, MARD01, MCHBO1, MKOLO1, MSLBO1, MSKAO1, MSKUO1 & MSPRO1. Such tables with material master data attributes as well as actual stock quantities will be named as hybrid tables in the following. There were also tables like MARCHO1, MARDHO1, MCHABO1, MKOLHO1, MSLBHO1, MSKAHO1, MSKUHO1 & MSPRHO1 which holds periodical history data.

With SAP S/4HANA 1610, this data model has changed significantly. The new de-normalized table MATDOC is introduced which contains the former header and item data of a material document as well as a lot of further attributes. Material document data will be stored in MATDOC only and not anymore in MKPF and MSEG. Oil append from MKPF & MSEG are added to MATDOC as an append. To be in line with core data model MATDOCOIL table has been introduced which contains former MSEGO1 & MSEGO2 table data and some attributes from core MATDOC table. Additionally the aggregated actual stock quantities will not be available anymore in the hybrid or replaced aggregation tables. Instead, actual stock quantity data will be calculated on-the-fly from the new material document table MATDOCOIL for which some of those additional special fields are used.

The affected tables are listed below:

<table>
<thead>
<tr>
<th>Table</th>
<th>Table Description</th>
<th>Core CDS View</th>
<th>DDL Source of CDS View for redirect</th>
<th>View to read the content of the database table (w/o redirect to compatibility view)</th>
<th>View to read the master data attributes only</th>
</tr>
</thead>
<tbody>
<tr>
<td>MBEW</td>
<td>Material Valuation</td>
<td>MBV_MBEW_EX T</td>
<td>OIH_OILEMBEW7_MBEW_EXT_DDL</td>
<td>CWM_MBEW_EXT_DDL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MBV_MBEW_ML _ONLY</td>
<td>OIH_OILEMBEW7_MBEW_M L_DDL</td>
<td>CWM_MBEW_ML_DDL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MBV_MBEW_BA SIS</td>
<td>OIH_OILEMBEW7_MBEW_BASIS_DDL</td>
<td>CWM_MBEW_BASIS_DDL</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MBV_MBEW_CA SE</td>
<td>OIH_OILEMBEW7_MBEW_CASE_DDL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Component</td>
<td>Description</td>
<td>Code Reference</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-----------</td>
<td>-------------</td>
<td>----------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EBEW</td>
<td>Sales Order Stock Valuation</td>
<td>MBV_EBEW_MO, CWM_MBEW_CASE_DDL, OIH_OILEMBEW7_MBEW_MOTH_DDL, MBV_MBEW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>MBV_EBEW_TH_SEG, CWM_MBEW_MOTH_SEG_DDL, MBV_MBEW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QBEW</td>
<td>Project Stock Valuation</td>
<td>MBV_QBEW_EX, OIH_OILEMBEW7_QBEW_EXT_DDL, MBV_QBEW_ML_ONLY, OIH_OILEMBEW7_QBEW_ML_DDL, MBV_QBEW_BASIS, OIH_OILEMBEW7_QBEW_BASIS_DDL, MBV_QBEW_CA SE, OIH_OILEMBEW7_QBEW_CASE_DDL, MBV_QBEW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OBEW</td>
<td>Valuated Stock with Subcontractor</td>
<td>MBV_OBEW_EX, OIH_OILEMBEW7_OBEW_EXT_DDL, MBV_OBEW_ML_ONLY, OIH_OILEMBEW7_OBEW_ML_DDL, MBV_OBEW_BASIS, OIH_OILEMBEW7_OBEW_BASIS_DDL, MBV_OBEW_CA SE, OIH_OILEMBEW7_OBEW_CASE_DDL, MBV_OBEW</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARC</td>
<td>Plant Data for Material</td>
<td>NSDM_DDL_MARC, CWM_MARC_COSTING, O10_COMMON_2_OILMAR CBS_DDL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKPF</td>
<td>Header: Material Document</td>
<td>NSDM_DDL_MKPF, O10_COMMON_2_OILMKPF_DDL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSEG</td>
<td>Document Segment: Material</td>
<td>NSDM_DDL_MSEG, CWM_MSEG_DDL, O10_COMMON_2_OILMS_EG_DDL, O10_OIOMSEG_DDL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MA07V</td>
<td>Material Master: DB</td>
<td>NSDM_E_MA07V, O10_COMMON_OILVAP_MA07V_DDL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>View for Inventory Management</td>
<td>V_VAPMA</td>
<td>OIF_OILVAPMA_DDL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>---------</td>
<td>------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sales Index: Order Items by Material</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARC O1 Appendix for Additional Quantities at Plant Level</td>
<td>OIB_DDL_MARCO1</td>
<td>V_OIB_MG_MARCO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARD O1 Appendix for Storage Location Additional Quantities</td>
<td>OIB_DDL_MARDO1</td>
<td>V_OIB_MG_MARDO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MCHB O1 Appendix for Additional Quantities at Batch Level</td>
<td>OIB_DDL_MCHBO1</td>
<td>V_OIB_MG_MCHBO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MKOL O1 Special stocks from vendor additional quantity appendix</td>
<td>OIB_DDL_MKOLO1</td>
<td>V_OIB_MG_MKOLO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSLB O1 Appendix for Special Stocks with Vendors: Add. Quantities</td>
<td>OIB_DDL_MSLBO1</td>
<td>V_OIB_MG_MSLBO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSKA O1 Special Stocks Appendix: Additional Quantities</td>
<td>OIB_DDL_MSKAO1</td>
<td>V_OIB_MG_MSKAO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SKU O1 Appendix for Special Stocks with Customers: Add. Quantities</td>
<td>OIB_DDL_MSKUO1</td>
<td>V_OIB_MG_MSKUO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MSCHR O1 Project Stock additional quantities</td>
<td>OIB_DDL_MSPRO1</td>
<td>V_OIB_MG_MSPRO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARDH O1 MARCH: Additional quantities appendix</td>
<td>OIB_DDL_MARCHO1</td>
<td>V_OIB_MG_MARCHO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>MARDHO1 MARDH: Additional</td>
<td>OIB_DDL_MARDHO1</td>
<td>V_OIB_MG_MARDHO1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quantity Appendix</td>
<td>Technical Key Fields</td>
<td></td>
<td></td>
<td></td>
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**Business Process related information**

**MATDOCOIL Table**

MATDOCOIL table has the following structure.

- Some technical key fields, optimized for memory consumption
- Stock identifier fields from MATDOC table
- All fields from the existing oil document table MSEG01
- All fields from the existing oil document table MSEG02 in column format with provision of 60 UoMs
Material Stock condensate table MATDOCOILEXTRACT

MATDOCOILEXTRACT is the condensed table of MATDOCOIL which contains technical key fields to optimize memory consumption, stock identifier fields, period fields and additional quantity fields.

Records will be inserted in this condensate table MATDOCOILEXTRACT at the same time as records are inserted in the material document table MATDOCOIL.

The Pre-compacting functionality

- Running at the period end closing
- Can be scheduled as periodic job
- Creates a condensate from all records having the same values in its stock identifying fields
- Inserts this condensate as new record and deletes all records contributing to this condensate. Hence the actual stock needs to be calculated only from this condensate and all document records created since the last Pre-Compacting run. Thus, the overall number of records in the condensate table is much less than in the material document table as well as the number of records to be aggregated on-the-fly is less resulting in high performance.

UoM Index Table

As per the new SAP S/4HANA data model, table MATDOCOIL contains MSEGO2 data. This table stores multiple UoMs in columnar format as UoM1 | UoM2 | …….. UoM60 (provision is made to store up to 60 UOMs). Earlier in MSEGO2, UoMs were stored in row format.

In SAP S/4HANA, columnar storage is supported due to performance improvements. Therefore if each UoM is provided with index number and stored in respective columns, aggregation will be faster in HANA DB. Thus MATDOCOIL_INDEX table would be used to determine the position of the UoMs and their quantities during the data insert to MATDOCOIL table.

MATDOCOIL_INDEX table get updated as follows

- Initial Load: This is based on MSEGO2 & MARCO1, the UoMs would be updated to the Oil index table MATDOCOIL_INDEX during migration.

- Delta Load: When the posting is done, the UoM is checked for existence in the MATDOCOIL_INDEX table. If not present, then that UoM is added by assigning next index number.
Flexible framework for UoM extension after 60 UoM

According to SAP S/4 HANA redesign in HPM, the system supports up to 60 unique UoMs. Once the UoM count exceeds 60, the user will not be able to post material documents with new UoM. To overcome this problem a flexible framework is provided to customers.

As per the framework when the UoM count reached to warning limit (total UoM fields – 5 UoM fields i.e. 60-5 = 55), an information message will be popped up in MIGO process stating UoM count has reached XX number, to retain smooth operation implement SAP note 2293641.

Data Archiving in S/4HANA for HPM (MATDOCOIL)

With SAP S/4HANA the database design for material documents was changed from the old tables MKPF and MSEG to the new table MATDOC and in IS-OIL from MSEGO1 and MSEGO2 to MATDOCOIL. For the tables MKPF, MSEG, MSEGO1 and MSEGO2 an archiving function is in place through the archiving object MM_MATBEL. The existing implementation of the archiving object MM_MATBEL shall be changed in a way that it works with the new table while existing settings for this archiving object are still valid and data which has already been archived in the customer environment is still accessible.

When material documents are moved from the DB into archive files it must be ensured that the calculation of the current stock level, as well as of historical stock levels is still working accurately. As the stock level is calculated on the basis of all stock movements for a particular stock identifier, this means that the archiving of material documents goes together with the creation of representatives for the archived entities.

It must be ensured that the aging and deletion of archived material documents does not happen in parallel. For this purpose a new lock object EMATDOC_AGING with client (MANDT) as lock parameter is introduced. When starting data aging for aging object MM_MATDOC in the aging runtime an exclusive lock shall be raised, while the delete program for material documents shall raise a shared lock for the same client.

A new program NSDM_MM_MATBEL_POST_PROCESSING (package MBND_ARCHIVING) is provided to consolidate the archive representatives (i.e. records of type ARC_DELTA) that were created by report RM07MADES. Consolidation means that the key figures of all representatives having the same aggregation key are aggregated into a single new representative and inserted into the table MATDOC and MATDOCOIL, while the representatives forming this new representative are deleted from the table MATDOC and MATDOCOIL.

It must be ensured that the aging and consolidation of archive representatives does not happen in parallel. For this purpose, the same lock object is used that is already applied to protect the aging and deletion of material documents (i.e. lock object EMATDOC_AGING). But as compared to the delete program, where a shared lock is
used to enable the parallel execution of the delete process, the post processing program shall raise an exclusive lock. By using an exclusive lock it is ensured that the post processing program is called only once at a time (i.e. it must not run parallel).

Old BAdI implementation for Oil and Gas (OIO_MM_MATBEL_WRITE) is deleted from the BAdI ARC_MM_MATBEL_WRITE as the BAdI call is inappropriate.

The material documents already present in the customer’s archive will still be accessible as before. There will be no difference from the user perspective between material documents archived before the changes described and material documents archived after these changes.

**Required and Recommended Action(s)**

- Any update to MKPF, MSEG, MSEG01 & MSEG02 tables in custom code needs to be changed for MATDOC & MATDOCOIL tables correspondingly.
- Custom appends in MKPF & MSEG need to be created in MATDOC table and similarly MSEG01 & MSEG02 appends in MATDOCOIL table.
- If UoMs were exceeding more than 60, refer & implement SAP note 2293641.
- Select queries on hybrid core & oil tables only for master fetch will be replaced with corresponding master data views to improve the performance. For this refer SAP note 2328444.
- Any inconsistency between MATDOC & MATDOCOIL will be corrected by running report “ROIBSCAN_MISSING_O1O2”. Existing inconsistency report of MSEG with MSEG01 & MSEG02 is modified to check inconsistency between MATDOC & MATDOCOIL and update the same. For this refer SAP note 2328561.
- ADQNT float field of MSEGO2 table has been obsolete due least usage of field. No more value available in the field. For this refer SAP note 2328455.

**How to Determine Relevancy**

This item is relevant for all IS-Oil customer

**Other Terms**

MATDOCOIL, S/4HANA, on-premise, conversion, MATDOCOILEXTRACT, MATDOCOIL_INDEX, MSEG01, MSEG02, ROIBSCAN_MISSING_O1O2
55.9 S4TWL - Improved update logic for excise duty related movements in MBEW

Application Components: IS-OIL-DS

Related Notes:

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Symptom

WARNING: This is an IS-OIL specific SAP Note. If you DO NOT have IS-OIL installed on your system, this SAP Note does not apply to you. If you apply this SAP Note and you do not have IS-OIL installed, you may cause serious damage to your system.

You are doing a system conversion to SAP S/4HANA, on-premise edition 1709. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Improved MBEW update logic for IS-OIL in SAP S/4HANA on-premise edition 1709

- Activated shared lock concept for IS-OIL
- No MBEW update required for non-excise duty related movements
- Update of MBEW is only required for "taxed" excise duty related movements
- IS-OIL master and taxed transactional data update to MBEW table
- Proxy object(MBV_MBEW) on MBEW table, Untaxable material data getting from ACDOCA_M_EXTRACT (Transaction data) Table.
- For SAP S/4HANA cloud edition or new installs of the SAP S/4HANA on-premise edition, the Late Lock (TCURM-MBEQU = 2) and the Non-Exclusive Locking Mode (TCURM-MB_LOCK_MODE = 3) are activated by default.

Business Process related information

- Material movement locking is applicable for taxable material and it will always set exclusive lock on coding level. Initial posting and after goods movement
posting in both cases taxable material set exclusive lock and update on MBEW Table

**Required and Recommended Action(s)**

- In case of an upgrade from ERP to SAP S/4HANA 1709 or migration from SAP S/4HANA 1610 to SAP S/4HANA 1709, the configuration is mandatory.

- On upgrade or migration the default material lock is set to late lock and configuration of the non-exclusive locking mode must be active (Table TCURM-MBEQU = 2 and TCURM-MB_LOCK_MODE = 3)

(SAP Customizing->Materials management-> General settings for material management -> Set material lock for goods movements)

**How to Determine Relevancy**

- This item is relevant for all IS-OIL customers

**Other Terms**

TCURM (Customizing: MM Configuration)

**55.10S4TWL - UoM Group Extension Improvements**

Application Components:IS-OIL-DS

Related Notes:

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Symptom

WARNING: This is an IS-OIL specific SAP Note.

| If you DO NOT have IS-OIL installed on your system, this SAP Note does not apply to you.
| If you apply this SAP Note and you do not have IS-OIL installed, you may cause serious damage to your system

You are doing a system conversion to SAP S/4HANA, on-premise edition 1709. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

UoM group is the major object in HPM module of IS-OIL. UoM attached to material decides the additional UoMs for that material. Hence it plays a major role in stock calculation, document posting and display. In ECC system it is not possible to do any modification like addition of new UoM, delete or change the existing UoM entries in UoM group which is already created.

This restriction on UoM group changes, will hamper customer in some typical business scenarios. So in S/4HANA simplification some relaxation is provided in the feature. Now customer can add a new UoM into UoM group but not to change/delete the existing UoMs of the UoM group.

Whenever a new UoM added into UoM group, system adjusts the stock with respect to new UoMs in all the materials which were assigned to that UoM group.

Solution

A report “R_OIB_01_UOM_ADD_INSERT_SUM” is developed to add the new UoM into the UoM group and adjust the stock for all the materials belonging to UoM group for the new UoM by inserting summary records.

The report needs to be executed in development, quality and production systems in a sequence to keep sync between the systems in the landscape.

The report (R_OIB_01_UOM_GRP_EHN_DISPLAY) is developed that gives the output of summary records created for all the materials assigned to UoM Group which was enhanced by adding new UoM. And it shows the physical parameters considered for calculating the summary records, created by, time stamps, and posting date.

Table OIB_UOM_GRP_HIST is updated with change history, Unit of Measure Group, Version UoM added, Last Changed by and Timestamp and so on.

Other Terms
UoM Group, IS-OIL, Additional UoM

55.11S4TWL - Extended IS-OIL Customizing

Application Components: IS-OIL-DS

Related Notes:

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Symptom

WARNING: This is an IS-OIL specific SAP Note.
If you DO NOT have IS-OIL installed on your system, this SAP Note does not apply to you.
If you apply this SAP Note and you do not have IS-OIL installed, you may cause serious damage to your system.

You are doing a system conversion to SAP S/4HANA, on-premise edition 1709. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

You have installed/upgraded to IS-Oil S/4HANA 1709

Solution

Industry Solution - Oil and Gas (IS-OIL) has created an improved customizing template which comprises of new Switch Business Configuration Sets. The new customizing values are delivered as part of S/4HANA 1709 and will only be applicable for the IS-OIL S/4HANA On-Premise customers. These BC Sets do not contain any ecatts or enterprise configurations. The intent here is to deliver reference customizing entries to help consultants configure the system as per their business needs.

Other Terms

BC Sets, Customizing Template
55.12S4TWL - IS-OIL - Commodity Management Integration

Application Components: IS-OIL-DS

Related Notes:

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Symptom

WARNING: This is an IS-OIL specific SAP Note.
If you DO NOT have IS-OIL installed on your system, this SAP Note does not apply to you.
If you apply this SAP Note and you do not have IS-OIL installed, you may cause serious damage to your system.

You are doing a system conversion to SAP S/4HANA, on-premise edition 1709. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

During the integration of Commodity Pricing Engine in an S/4 IS-OIL System, few changes were made in order to ensure the smooth functioning of the same, specifically removing the conflicts with Formula and Average Pricing.

Solution

1. OI0_CPE package created to capture changes related to the integration of Commodity Pricing Engine. OI0_CPE is assigned to the switch OI0_SERVICE and has the super package as IS-OIL-DS.
2. Maintain Formula button for the condition type with calculation type (KRECH) =Q has been removed and made only for Formula and Average Condition Type in both SD and MM side for the transactions vk11, vk12, vk13, mek1, mek2 and mek3.
3. Two new BC Sets were created for IS-OIL in the Commodity Pricing Engine configuration Tables
   - OI_DS_S4DEV_CPEV_CALCRULE(calculation rule configuration)
   - OI_DS_S4DEV_CPEV_SURCHARGE(surcharge rule configuration).

For more details on the Core CPE Simplification refer to Simplification Note: 2226096
Other Terms


55.13S4TWL - IS-OIL Data Archiving For Exchanges

Application Components: IS-OIL-DS

Related Notes:

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Symptom

WARNING: This is an IS-OIL specific SAP Note.

If you DO NOT have IS-OIL installed on your system, this SAP Note does not apply to you.

If you apply this SAP Note and you do not have IS-OIL installed, you may cause serious damage to your system

You are doing a system conversion to SAP S/4HANA, on-premise edition 1709. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

In SAP S/4HANA, on-premise edition 1709, IS-OIL can support archiving of Exchange Agreements.

Solution

Exchange agreements can be archived using the Data Archiving Object OIA_EXG.

All the exchange agreements that has the status of ‘To be archived’ can be archived using this object.

Note: Exchanges Data Archiving Object OIZ_EXG is responsible only for Exchanges related tables. If you want to make full use of the object you should perform archiving for the MM and SD objects first to archive the underlying documents in an exchange agreement like Sales contracts, Purchase contracts, etc.

Other Terms
Data archiving, OIA_EXG, IS-OIL, Exchanges, OIA, historical data

55.14S4TWL – iTSW available only for ACM customers

Application Components: IS-OIL-DS-TSW

Related Notes:

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Symptom

WARNING: This is an IS-OIL specific SAP Note.

| If you DO NOT have IS-OIL installed on your system, this SAP Note does not apply to you. |
| If you apply this SAP Note and you do not have IS-OIL installed, you may cause serious damage to your system |

You are an iTSW customer and doing a system conversion to SAP S/4 HANA on-premise edition 1709 FPS01. You face an error "LOG_TSW_ECC is not released for S/4 HANA 1709" during execution of pre-checks or SUM.

Reason and Prerequisites

You face an error during conversion to SAP S/4HANA on-premise edition 1709.

Solution

In general iTSW is not supported in S/4 HANA, the only exception is mentioned below in this note:

- The note is for ACM customers only, who intend to do a conversion from an ECC system to S/4 HANA 1709 FPS01.
- iTSW is not supported in S/4 HANA for new (or greenfield) installations – even when the target release is an S/4 HANA 1709 FPS01 release.
- For conversion, we do not support any S/4 HANA target release higher than S/4 HANA 1709 FPS01 (S/4 HANA 1809, 1909 etc.).

Other Terms

LOG_TSW_ECC; LOG_TSW_ECC_1; iTSW; ACM
55.15S4TWL - Service Station Retailing

Application Components: IS-OIL-DS-SSR

Related Notes:

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Symptom

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

Service Station Retailing is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Service Station Retailing for O&G can be found under the ID 110.

This means that you need to migrate from Service Station Retailing to its designated alternative functionality – SAP S/4HANA Supply Chain for secondary distribution (S4SCSD) component Retail Fuel Network Operations (RFNO), before expiry of the compatibility pack license. This note shall provide an overview on how you can migrate to the alternative functionality.

Business Process related information

SAP S/4HANA Supply Chain for secondary distribution is an SAP Oil & Gas add-on that uses functions from IS-Oil Downstream.


Please note that Retail Fuel Network Operations component requires an extra license.

Required and Recommended Action(s)
As Service Station Retailing for O&G can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality.

Please note that no direct conversion from Service Station Retailing to Retail Fuel Network Operations is possible and new installation is required. Therefore, please plan accordingly for the migration efforts in your project.

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, Service Station Retailing, Oil&Gas, ID 110

55.16S4TWL – Shipment Cost Processing

Application Components: LE-TRA

Related Notes:

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Symptom

You are an IS-OIL customer and doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

LE-TRA Shipment Costing Functionality is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. Due to dependency on LE-TRA functionality, LE-TRA specific expiry date is also valid for this functionality. In the compatibility matrix attached to SAP note 2269324, LE-TRA Shipment Costing for Oil & Gas can be found under the ID 127. This means that you need to migrate from LE-TRA Shipment Costing to its designated alternative functionality, which is the base variant of SAP S/4HANA Supply Chain for
Transportation Management, that is already available, before expiry of the compatibility pack license.

**Business Process related information**

LE-TRA Shipment Costing functionality, which is part of S/4HANA compatibility scope, includes shipment costing for IS-Oil TD shipment. This calculation is done based on TD shipment information as well as LE-TRA shipment costing configuration and pricing condition details. That is part of the LE-TRA solution, which is part of compatibility scope

**Required and Recommended Action(s)**

As LE-TRA shipment costing functionality can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality.

The planned alternative functionality for the shipment cost document of IS-Oil TD shipment will be the Freight Settlement Document from SAP S/4HANA Supply Chain for Transportation Management.

To be able to run the above-mentioned alternative functionality for freight costing of IS-Oil TD shipment, the corresponding development is planned to do the integration between IS-Oil TD shipment and Transportation Management. Please refer to IFR/roadmap explorer for details.

Please refer to SAP note 2270199 for Transportation Management as alternative solution for LE-TRA.

Currently both solutions (LE-TRA and Base Variant of SAP S/4HANA Supply Chain for Transportation Management) are independent from each other and can be used next to each other in the same SAP S/4HANA database instance. They are not integrated with each other. As of expiry date of the compatibility item (LE-TRA shipment costing) any enhancements or modifications done, will not be available anymore.

SAP S/4HANA TM is already available and can be used as a basic Transportation Management variant, which comes with the CORE S/4HANA License and covers the main features of LE-TRA shipment costing. Advanced Transportation Management has additional features compared to the main features of LE-TRA shipment costing, but requires additional license.

As well for LE-TRA the main features have already been replaced with the base variant of SAP S/4HANA Supply Chain for Transportation Management.
For convenience here is the link to the corresponding simplification item of LE-TRA shipment costing for O&G:

https://launchpad.support.sap.com/#/sic/itemSet('00109B1318B61EDCB0B59EDA85C8E124','false')

Other Terms

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, TD shipment, Oil&Gas, ID 127, LE-TRA shipment costing

55.17S4TWL - Optimization in Oil&Gas - Inter company sales - Cross border excise duty

Application Components: IS-OIL-DS

Related Notes:

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</table>

Symptom

This is an IS-OIL specific note for the SAP S/4HANA on premise edition 1610 release. If you do not have IS-OIL, this note doesn’t apply to you. This note does not apply to you if TDP-‘Cross-Company/Cross-Border Sales and Stock Transfers’ BC set is not activated in your system.

You are doing a system conversion to SAP S/4HANA on premise edition 1610, the following SAP S/4HANA note supports inter-company sales- Cross Border Excise duty movement cancellation.

Reason and Prerequisites

In TDP, Intercompany sales – Cross Border Excise duty business process concept of notional plant is introduced to handle the tax determination, when we perform PGI against the outbound delivery the following movements will be posted: 601 from supplying plant, 501(Goods receipt without PO) movement into notional plant & 601 from notional plant.
However, when we perform material movement (inter company) cancellation (through VL09), the availability check will occur at every line item and throws error (deficit of stock) at notional plant.

This will impact 3 different variants

a) delivered; CoT@Load
b) delivered; CoT@Discharge outside TD
c) delivered: Customer Pickup

With the new SAP S/4HANA MM-IM optimization, single item process as well as array processing is possible. With the single processing the items will be processed item by item & throws error (deficit of stock).

**Solution**

The solution for this scenario is by implementing a BADI ‘BADI_NSDM_READ_STOCK’, which checks whether there is a notional plant in OIH79 table and if exists, assign 'A' (array processing) to variable IS_SINGLE_OR_ARRAY which will take care of inter company Sales (cross border excise duty) reversal scenarios.

**Software components**

*IS-OIL*

**How to Determine Relevancy**

This item is relevant for all IS-Oil customer

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**55.18S4TWL – Freight Costs**

Application Components:IS-OIL-DS-TSW

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3050713</td>
<td>S4TWL - TSW Freight Costs</td>
</tr>
</tbody>
</table>
Symptom

You are an IS-OIL customer and doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.

Solution

Description

TSW Freight Costs Functionality is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and it’s expiry date and links to further information please refer to SAP note 2269324.

Due to dependency on LE-TRA functionality, LE-TRA specific expiry date is also valid for this functionality.

In the compatibility matrix attached to SAP note 2269324, TSW Freight Costs for Oil & Gas can be found under the ID 126.

This means that you need to migrate from Laytime & Demurrage functionality in TSW Nomination to its designated alternative functionality – ‘Laytime & Demurrage’ Fiori App, before expiry of the compatibility pack license. This note shall provide an overview on how you can migrate to the alternative functionality.

Business Process related information

TSW Freight Costs functionality, which is part of S/4HANA compatibility scope, includes Laytime and Demurrage calculation in TSW Nomination. This calculation is done based on details maintained in freight contract, such as laytime terms, start and end events for laytime, as well as demurrage rates. Demurrage calculation is done based on Shipment Cost Pricing that is part of the LE-TRA solution, which is also part of compatibility scope.

As of SAP S/4HANA 1809 the alternative functionality for Laytime and Demurrage calculation is available – Fiori Apps F3389 ‘Schedule Hydrocarbon Trip’ and F3390 ‘Laytime and Demurrage’. With these apps you can calculate laytime, capture related demurrage costs of a trip and trigger associated follow-up activities. Demurrage calculation is done based on SD and MM pricing.

You can find more information about functional scope of Laytime & Demurrage Calculation functionality at help.sap.com.
Please also refer to note 3027954 for information regarding functionality and current limitations.

**Required and Recommended Action(s)**

As TSW Freight Costs functionality can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide, when (with which of the coming SAP S/4HANA releases) they want to migrate to the designated alternative functionality.

Currently both solutions are independent from each other and can be used next to each other in the same SAP S/4HANA database instance. They are not integrated with each other and data for calculated laytime or demurrage is not exchanged.

The new Fiori apps for laytime and demurrage calculation utilize some of the functionality used also during calculation in TSW Nomination. However, both apps represent a new solution, including new processes and capabilities.

As of expiry date of the compatibility item (Laytime and Demurrage functionality in TSW Nomination) any enhancements or modifications done, will not be available anymore.

**Other Terms**

SAP S/4HANA, Compatibility Scope, System Conversion, Upgrade, TSW Freight Cost, Oil&Gas, ID 126, Laytime & Demurrage

**55.19S4TWL - Remote Logistics Management**

Application Components: IS-OIL-OL

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3046934</td>
<td>S4TWL - Remote Logistics Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this note. The following SAP S/4HANA Simplification Item is applicable in this case.
Solution

Description

SAP Remote Logistics Management (RLM) is part of the SAP S/4HANA compatibility scope, which comes with limited usage rights. For more details on the compatibility scope and its expiry date and links to further information please refer to SAP note 2269324. In the compatibility matrix attached to SAP note 2269324, Remote Logistics Management can be found under the ID 103.

This means that you cannot use Remote Logistics Management (RLM) after the expiry of the compatibility pack license. There is an alternative functionality called "Field Logistics" in SAP S/4HANA. This note shall provide information on what to do to move to the alternative functionality.

Business Process related information

SAP S/4HANA Field Logistics is part of the SAP Oil & Gas Upstream Cloud scope.

Field Logistics is available as of SAP S/4HANA CE1908. You can find information about the functional scope of Field Logistics at help.sap.com. Field Logistics scenarios are available with the Best Practice Scope items 40G, 4AH and 5OM.

Please note that Field Logistics, as part of the Oil&Gas Upstream component, requires an extra license.

Required and Recommended Action(s)

As Remote Logistics Management (RLM) can be used until the expiry date of the compatibility pack license, it’s up to each customer to decide when (based on which of the upcoming SAP S/4HANA releases) they want to implement the designated alternative functionality.

Please note that no direct conversion from Remote Logistics Management (RLM) to Field Logistics is possible and a new installation is required. Therefore, please plan accordingly for the implementation efforts in your project.

Other Terms

SAP S/4HANA, Compatibility Scope, Compatibility Package, System Conversion, Upgrade, Remote Logistics Management, Oil&Gas
55.20S4TWL - IS-OIL Proper sign operation for ACDOCA

Application Components: IS-OIL-DS

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2350150</td>
<td>IS-OIL Proper sign operation for ACDOCA</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition 1610. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

In SAP S/4HANA proper sign operation is adapted for ACDOCA.

Solution

In SAP S/4HANA, on-premise edition 1610, IS-OIL can support a sign operation in ACDOCA. Where required, automated logic is in place and executed automatically in case a customer converts the current SAP Business Suite system into SAP S/4HANA, on-premise edition 1610.

Nevertheless there might be constellations where a customer needs to be aware about. For example:

- Any FI Posting happened in the system Excise duty values come with sign operation, Condition credit indicator ‘H’ with negative values posting can see in ACDOCA

Overview

With SAP S/4HANA, on-premise edition 1610, posting proper sign operation adapted in ACDOCA.

Posting any FI document with Credit Indicator ‘H’, negative sign values applied to posting document and Debit indicator ‘S’ there is no sign-operation applied.

Posting proper sign to ACDOCA we implemented BADI ‘BADI_OIL_ACDOCA_POST_SIGN’ and with Implementing Class ‘CL_OIL_ACDOCA_POST_SIGN’.
Coding part done in above class using interface method
IF_BADI_FINS_ACDOC_POST_EV_INT~SUBST_ACDOCA_EXTENSION_FIELDS.

System Behavior Depending on the IS-Oil Switch

If the IS-OIL functionality is switched on, then only proper sign operation posting into ACDOCA.

Software Component

IS-OIL

How to Determine Relevancy

This item is relevant for all IS-Oil customer

Other Terms

sign,ACDOCA

55.21S4TWL - Unit of Measure (UoM) Group enhancement

Application Components:IS-OIL-DS

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2328459</td>
<td>S4TWL - Unit of Measure (UoM) Group enhancement</td>
</tr>
</tbody>
</table>

Symptom

UoM group ‘xxx’ assigned to a material; not possible to change or delete

Reason and Prerequisites

1) Program will consider QCI parameter values from O3DEFAULTTS (as the starting point). It is good to maintain QCI parameter values for all the combinations (Material/Plant/Storage Location/Batch) that are affected by adding a new UoM to the UoM group.
2) If there are any physical inventory count document for which physical inventory posting is not yet done, either post the physical inventory document or delete the physical inventory count document before adding new UoM to UoM group.

**Solution**

A report “R_OIB_01_UOM_ADD_INSERT_SUM” has been developed, which adds the new UoM into UoM group and adjust the stock for all the materials belonging to UoM group for the new UoM by inserting summary records.

**Description**

UoM group is one of the major object in HPM module of IS-OIL. UoM attached to material decides additional UoMs for that material. Hence it plays a major role in stock calculation, document posting and display if stock. In older IS-Oil releases, it was not possible to add new UoM to existing UoM group (where there are material documents for the materials which are assigned with the UoM group in context). This restriction will block few business scenarios for customers. IS-OIL SAP S4HANA 1610 release does not have this restriction and customer can add a new UoM to existing UoM group (where there are material documents for the materials which are assigned with the UoM group in context). Changing/deleting of UoMs in UoM group is not possible. Whenever a new UoM is added to UoM group, system adjusts stock (at Plant/Storage Location/Batch level) with respect to new UoMs for all the materials which were assigned to that UoM group.

Report “R_OIB_01_UOM_ADD_INSERT_SUM” must be executed which will add new UoM to UoM group and adjusts the stock for all the materials belonging to UoM group by inserting summary records for new UoM. Summary record will not have material document number.

The report needs to be executed in individual system. In order to be in sync between all the systems of landscape, the report has to run in Development, Quality and Production system in sequence.

Enter the UoM Group that needs to be enhanced and the UoM that has to be added to the UoM Group. By default ‘Test Mode’ flag is ON so that the end user can simulate to see if there are any errors. Simulation output shows which all combinations (Material/Plant/Storage location/Batch) are affected, if there are any issues and for which all combinations summary record can be created. If there are issues, it is suggested to fix the issues and run the report again. Once all the issues are fixed, user can run the report by removing the flag for ‘Test Mode’.

Role ‘SAP_ISOIL_UOM_GR’ Authorization object OIB_UOM with activity 48 for Simulation and 10 for Post (or Update) needs to be assigned to the user for executing this report.
For a particular material/plant/storage location/batch system will check current/net stock in base UoM and convert it to the newly added UoM based on QCI parameters and its values.

If O3DEFAULTS is not maintained for the material/plant/storage location, program will check for last material document posted in which QCI parameter values are filled in manually and those parameters and their values will be considered for QCI conversion to calculate the stock in new UoM.

If a material document exists for a material with a conversion group and the assigned conversion group is changed to a new conversion group for the same material resulting in a change of the QCI parameters and its values, then the program will check if conversion group is changed. If yes, it will consider the new conversion group, find the corresponding reading group, get the QCI parameters assigned to the reading group and consider the QCI parameter values for conversion and create the summary record.

Use cases handled:

1. If a material is marked for deletion, program still creates summary record but ‘Material flag for deletion’ column is marked ‘x’ (as just FYI)
2. Negative stocks are also handled with QCI conversion to new UoM
3. If material in context has few material postings (GR & GI) and nett stock in base UoM is 0, as the base UoM stock is zero, no summary record is created
4. Stock in Base UoM is negligible quantity (Ex: 0.001 KG) and newly added UoM is biggest UoM (Ex: MBL), as conversion of 0.001 KG to MBL will lead to ~0 value, summary record with 0 quantity will be added and stock in MBL will be shown as 0 in MMBE for newly added UoM (i.e. MBL)
5. If there are more than 1 O3DEFAULTS maintained for same material/plant/storage location, most relevant record (active and valid on current date) will be considered for QCI conversion to new UoM
6. There are some cases where material documents are created with a UoM (For Ex: BBL) which is not part of UoM group. In such cases, program ensures that the new UoM’s quantity in summary record is calculated such that new quantity of base UoM when converted to new UoM will match properly

Base UoM had net quantity as 360 KG and assuming correct QCI conversion into BBL is 2

1. Case1: If BBL was part of only few material documents, assuming net quantity in BBL from existing material documents is 1 BBL, Summary record will be created for BBL as 1 so that in MMBE after summary record is created, stock for BBL will be shown as 2
2. Case2: If BBL was part of only few material documents, assuming net quantity in BBL from existing material documents is 0 BBL, Summary record will be created for BBL as 0 so that in MMBE after summary record is created, stock for BBL will be shown as 2

3. Case3: If BBL was part of only few material documents, assuming net quantity in BBL from existing material documents is -1 BBL, Summary record will be created for BBL as 3 so that in MMBE after summary record is created, stock for BBL will be shown as 2

Business Process related information.
New functionality available in SAP S4HANA 1610

How to Determine Relevancy

This item is relevant for all IS-Oil customer

55.22S4TWL - eNetting Deprecation

Application Components: IS-OIL-DS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2328548</td>
<td>S4TWL-eNetting functionality in exchanges module is not available in S/4 HANA</td>
</tr>
</tbody>
</table>

Symptom

As preparation for a system conversion to SAP S/4HANA 1610 exchange reconciliation through eNetting.

Reason and Prerequisites

eNetting functionality in exchanges module is not available in SAP S/4HANA 1610.

Solution

Description:

eNetting application is used for exchange reconciliation and was available till 4.6C version of ERP. The exchange detail statement generated from R/3 is transmitted to eNetting application for exchange reconciliation. The data transfer between an R/3
system and a non-R/3 system is typically achieved using the IDOC interface. In the eNetting scenario, the exchange detail statement IDOC is generated from the R/3 system and is transmitted to the SAP Business Connector (middleware tool) through ALE integration technology. The SAP Business Connector is then responsible for the transformation of the data from IDOC to XML that is used for further processing by the eNetting application. SAP has stopped supporting middleware tool ‘SAP Business Connector’ with the latest solutions like Process integration availability.

**Business Process related information**

eNetting functionality was available till 4.6C version of ERP which is not available in SAP S/4HANA 1610.

**Required and Recommended Action:**

There is no equivalent functionality of eNetting available in SAP S/4HANA 1610.

**How to Determine Relevancy**

This item is relevant for all IS-Oil customer

**Other Terms**

IS-OIL-DS-EXG, IS-OIL-NET, Exchanges, eNetting

**55.23S4TWL - Dynamic Scheduling deprecation**

Application Components: IS-OIL-DS

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2328538</td>
<td>S4TWL-Dynamic scheduling functionality in TSW module is not available in SAP S/4HANA 1610</td>
</tr>
</tbody>
</table>

**Symptom**

As preparation for a system upgradation to SAP S/4HANA 1610.

**Reason and Prerequisites**
Dynamic scheduling application is an integration of Stock Projection Worksheet (SPW) and Three-way pegging (3WP) functionality. The application integrates these two applications so that when a user makes a data-change in one application, he can see the effect of it in the other application in real-time (without requiring a data-save). This allows the user to create simulations in 3-way pegging, see its effects on the inventory in the Stock Projection, modify the simulations, undo/redo changes, and make changes to already published nomination. Once satisfied, the user can save these changes to the database. As this application is not used much and thus is removed in SAP S/4HANA 1610.

**Solution**

**Description:**

Dynamic scheduling application is an integration of Stock Projection Worksheet (SPW) and Three-way pegging (3WP) functionality. Dynamic Scheduling integrates these two applications so that when a user makes a data-change in one application, they can see the effect of it in the other application in real-time (without requiring a data-save). This allows the user to create simulations in 3-way pegging, see its effect on the inventory in the Stock Projection, modify the simulations, undo/redo changes, and make changes to already published nomination. As SAP has come up with similar applications recently, it creates confusion to customers with similar solutions and hence Dynamic Scheduling has been removed in SAP S/4HANA 1610.

**Business Process related information:** Dynamic scheduling is an integration of SPW and 3WP functionality which has been removed from SAP S/4HANA 1610.

**Required and Recommended Action:** There is no equivalent functionality of dynamic scheduling available in SAP S/4HANA 1610, but advanced functionalities like Inventory Planning Workbench (IPW) and Nomination Planning Workbench (NPW) are available.

**How to Determine Relevancy**

This item is relevant for all IS-Oil customer

**Other Terms**

IS-OIL-DS-TSW, TSW, Dynamic scheduling, Stock Projection Worksheet (SPW), Three-way pegging (3WP)
55.24S4TWL - Financial Based netting deprecation

Application Components: IS-OIL-DS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2328017</td>
<td>S4TWL-Financial based Netting functionality in exchanges</td>
</tr>
</tbody>
</table>

**Symptom**

Customer may face errors while executing transaction O3A4(Create netting document) and O54X(Create Selection) that refers to financial based netting.

**Reason and Prerequisites**

Movement based netting has more advantages over Financial Based Netting functionality

**Solution**

Description

Financial Based Netting is not available within SAP S/4HANA 1610. But you can still display and process existing Financial Based Netting documents.

**Business Process related information**

The Transaction codes O54X(Create Selection) , O3A4(Create netting document) used to create Financial Based Netting are removed from SAP S/4HANA 1610.

As an alternative, you should use Movement Based Netting functionality in Exchanges module.

Transactions not available in SAP S/4HANA on-premise edition 1610 : O54X and O3A4

**How to Determine Relevancy**

This item is relevant for all IS-Oil customer

**Other Terms**


55.25S4TWL - Oil & Gas inconsistency reports deprecation

Application Components: IS-OIL-DS

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2328561</td>
<td>Inconsistency Reports in HPM</td>
</tr>
</tbody>
</table>

Symptom

Report deprecated due to new data model.

Solution

Description

In SAP S4HANA 1610 there is a change in MM-IM data model. Data is moved from existing MM-IM tables to new tables MATDOC and MATDOCOIL. Due to this change the old inconsistency check reports for aggregate and history tables are now deprecated.

The following table provides the change details regarding the new data model:

<table>
<thead>
<tr>
<th>Data Storage as per Old Data Model</th>
<th>Data Storage as per New Data Model</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKPF</td>
<td>MATDOC</td>
<td>No data is stored in MKPF</td>
</tr>
<tr>
<td>MSEG</td>
<td>MATDOC</td>
<td>No data is stored in MSEG</td>
</tr>
<tr>
<td>MSEGO1</td>
<td>MATDOCOIL</td>
<td>No data is stored in MSEGO1</td>
</tr>
<tr>
<td>MSEGO2</td>
<td>MATDOCOIL</td>
<td>No data is stored in MSEGO2</td>
</tr>
<tr>
<td>Core Aggregate tables (MARC...)</td>
<td>Aggregate Table + MATDOC</td>
<td>Master data is stored in Aggregate table, the transactional data is calculated on the fly from MATDOC using redirect CDS view</td>
</tr>
<tr>
<td>Oil Aggregate tables (MARCO1...)</td>
<td>Aggregate Table + MATDOCOIL</td>
<td>Master data is stored in Aggregate table, the transactional data is calculated on the fly from MATDOCOIL using redirect CDS view</td>
</tr>
<tr>
<td>Core History Tables (MARCH...)</td>
<td>Aggregate Table + MATDOCOIL</td>
<td>Master data is stored in Aggregate table, the transactional data is calculated on the fly from MATDOC using redirect CDS view</td>
</tr>
<tr>
<td>Oil History Tables (MARCHO1...)</td>
<td>Aggregate Table + MATDOCOIL</td>
<td>Master data is stored in Aggregate table, the transactional data is calculated on the fly from MATDOC using redirect CDS view</td>
</tr>
</tbody>
</table>
data is calculated on the fly from MATDOCOIL using redirect CDS view

**Business Process related information**

As per the old data model the data was maintained in the Aggregate/History tables for both Core and Oil & Gas, there was a necessity to check and correct any inconsistency between the Core and Oil tables. The reports for this purpose are as listed below:

- ROIBCHAR (MARD01 Inconsistency check)
- ROIBSCAN_MCHBO1 (MARD01 Inconsistency check)
- ROIBSCAN_SEL_MSEGO2 (Oil Aggregate table Inconsistency check)
- ROIBSCAN_SEL_MSEGO2_H (Oil History table Inconsistency check)

Since the new data model eliminates data storage in the Aggregate/History tables there is no longer the requirement to correct inconsistencies between the Core and Oil counterpart tables. The 4 reports mentioned above are deprecated with SAP S4HANA 1610.

**Required and Recommended Actions**

The reports for inconsistency check in the Oil Aggregate/History tables are no longer available.

To check for inconsistency between MATDOC and MATDOCOIL the following report can be executed:

- ROIB_MATDOCOIL_CONSI_CHECK (Please check note 2599569 - Data Inconsistency Between Oil and Core Tables)

<table>
<thead>
<tr>
<th>Data Storage as per Old Data Model</th>
<th>Data Storage as per New Data Model</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKPF</td>
<td>MATDOC</td>
<td>No data is stored in MKPF</td>
</tr>
<tr>
<td>MSEG</td>
<td>MATDOC</td>
<td>No data is stored in MSEG</td>
</tr>
<tr>
<td>MSEGO1</td>
<td>MATDOCOIL</td>
<td>No data is stored in MSEGO1</td>
</tr>
<tr>
<td>MSEGO2</td>
<td>MATDOCOIL</td>
<td>No data is stored in MSEGO2</td>
</tr>
<tr>
<td>Core Aggregate tables (MARC...)</td>
<td>Aggregate Table + MATDOC</td>
<td>Master data is stored in Aggregate table, the transactional data is calculated on the fly from MATDOC</td>
</tr>
<tr>
<td>Oil Aggregate tables (MARCO1...)</td>
<td>Aggregate Table + MATDOCOIL</td>
<td>Master data is stored in Aggregate table, the transactional data is</td>
</tr>
</tbody>
</table>
How to Determine Relevancy

This item is relevant for all IS-Oil customer

Other Terms

Aggregate table, History table, Stock, Inconsistency, MARD01
56. Industry Oil – OGSD

56.1 S4TWL - OGSD - Classic Data Collation

Application Components: IS-OIL-DS-OGSD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2477777</td>
<td>S4TWL - OGSD - Classic Data Collation</td>
</tr>
</tbody>
</table>

Symptom

You are converting a system with installed Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application "Classic Data Collation" - that is the Data Collation using SAP-GUI.

Solution

Description:

The old or "Classic Data Collation" incorporates the processes for the retrospective entry of all activities resulting from the purchase and procurement of petroleum products and the delivery of these products to customers. This means, it processes sales data "after the fact" and calls all needed functions or transactions from SD and MM for the actual process. It is used mainly for mass processing of sales data coming a) via interfaces (ALE) and b) to some smaller extent by entering data online, meaning that either you or an automatic process started by ALE enters the actual values from the purchasing and supply areas and from the sale and delivery of the procured and delivered materials.

Business related information:

Data collation (old and new alike) integrates and automates frequently used processes mainly in Materials Management (MM) and Sales and Distribution (SD).

It therefore represents a direct connection of MM and SD processes, such as procuring materials, creating and changing sales contracts, sales orders, and deliveries.

For further information about the old or "Classic Data Collation" see:
For further information about the Floorplan-Manager(FPM)-WebDynpro based New Data Collation see here:

https://help.sap.com/viewer/ac2edcbb31de46e48bb3986017667d9a/7.0.6/en-US/8e0cbd535862aa23e10000000a441470.html

This page contains a comparison between both versions allowing for a better assessment of the usability and scope of both.

**Required and recommended action(s):**

1. If you want to continue using Data Collation, you need to switch to the *New Data Collation*, which is based on FPM and WebDynpro technology. In this case you have to check, if you have created some own functionality inside or for use by the now called "Classic Data Collation". If such own functionalities exists, you need to manually migrate your functionalities into the New Data Collation or adapt them in order to make use of them in the future too.

2. You need to consider this as a project, as there are no migration tools which may assist you in transferring code of form-routines into class-methods or similar. All adaptations need to be executed manually.

3. You do not need to migrate OGSD-own functionalities of the Classic Data Collation, these have been migrated into the successor application "New Data Collation".

4. You need to organize knowledge transfer to all users working with Classic Data Collation" as their pattern of work will change when working with the "New Data Collation". Users will have to use new applications for creating, changing, displaying and processing a new Data Collation document.

5. An introduction to the new Data Collation can be found in a course available on openSAP:
   https://open.sap.com/courses/ogsd1
   Week 2 Units 1 - 4 deal with the new Data Dollation.

**Other Terms**

Simplification Items, System Conversion to SAP S/4HANA, Transactions /ICO/MO_R1, /ICO/MO_R2, /ICO/MO_R3, /ICO/MO_R9
56.2 S4TWL - OGSD - Classic OGSD Interfaces

Application Components: IS-OIL-DS-OGSD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2489544</td>
<td>S4TWL - OGSD - Classic Interfaces</td>
</tr>
</tbody>
</table>

Symptom

You are converting a system with installed Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application "Classic Interfaces" to process (mostly inbound) IDocs using VOFM-style customer enhancements via form routines.

Solution

Description:

The old or "Classic Interfaces" incorporates the processes for the import and processing of (mostly) inbound IDocs in order to trigger further activities resulting from the purchase and procurement of petroleum products and the delivery of these products to customers by making use only of the Classic Data Collation (see SAP-note 2477777). This means, it processes IDocs coming via ALE, transforms IDoc data or creates IDocs from flat files. The interfaces are used for checking purposes and also for adding data to incoming data.

Business related information:

The Classic Interfaces allow for importing data in the form of flat files or IDocs received by ALE and pass on these data to the Classic Data Collation (see SAP-Note 2477777) which then integrates and automates frequently used processes mainly in Materials Management (MM) and Sales and Distribution (SD). It therefore represents a needed first step to allow for the direct connection of MM and SD processes, such as procuring materials, creating and changing sales contracts, sales orders, and deliveries.

For further information about the old or "Classic Data Collation" see:

https://help.sap.com/viewer/ac2edcbb31de46e48bb3986017667d9a/7.0.6/en-US/16c7aa533dae0077e10000000a4450e5.html
For further information about the NEW Interfaces see:


There is no information about the Classic Interfaces online anymore, but the listed steps are quite similar to the New Interfaces, except that when "methods" are stated, the Classic Interfaces are using form routines at special events during the process.

**Required and recommended action(s):**

1. If you want to continue using the Interfaces, you need to switch to the New Interfaces, which is using a method framework instead of form routines and has many more new features. In this case you have to check, if you have created some own functionality inside or for use by the now called "Classic Interfaces". If such own functionalities exists, you need to manually migrate your functionalities into the New Interfaces or adapt them in order to make use of them in the future too.
2. You need to consider this as a project, as there are no migration tools which may assist you in transferring code of form-routines into class-methods. All adaptations need to be executed manually.
3. You do not need to migrate OGSD-own functionalities of the Classic Interfaces, these have been migrated into the successor application "New Interfaces".
4. You need to organize knowledge transfer to all users working with Classic Interfaces as their pattern of work will change when working with the "New Interfaces". Users will have to use new applications for creating, changing, displaying and processing interface data.
5. An introduction to the New Interfaces can be found in a course available on openSAP:
   https://open.sap.com/courses/ogsd1
   Week 3 Units 4 - 5 deal with the New Interfaces.

**Other Terms**

Simplification Items, System Conversion to SAP S/4HANA, Transactions /ICO/MO_IF, /ICO/MO_IA, /ICO/MO_IB, /ICO/MO_I9, ICO/MO_IH, ICO/MO_IM, ICO/MO_FD, ICO/MO_FU
56.3 S4TWL - OGSD - Sales Logistics Cockpit

Application Components: IS-OIL-DS-OGSD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2489567</td>
<td>S4TWL - OGSD - Sales Logistics Cockpit</td>
</tr>
</tbody>
</table>

Symptom

You want to convert a system with Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application Sales Logistics Cockpit.

Solution

Description:

The Sales Logistics Cockpit is an application that gives access to customer data including the OGSD customer history and the OGSD notes.

Business related information:

Sales Logistics Cockpit integrates and automates frequently used processes mainly in Materials Management (MM) and Sales and Distribution (SD) and is built in a CRM-like way. It also incorporates functionalities from the "Telesales" thus reducing the need for users to deal with a more extensive screen like the ones in VA01, VA02, VA03 or similar.

It therefore represents a direct connection of MM and SD processes, such as procuring materials, creating and changing sales contracts, sales orders, and deliveries.

The Sales Logistics Cockpit is discontinued in SAP S/4HANA, so all its program and DDIC-objects are lost after a migration to SAP S/4HANA.

Data: As it holds no own data (except for some own customizing data determining screens and some functionalities of the Sales Logistics Cockpit) none are lost.

For further information about the Sales Logistics Cockpit see:

https://help.sap.com/viewer/ac2edcb31de46e48bb3986017667d9a/7.0.6/en-US/1f320f54366b2e18e10000000a174cb4.html
For further information about the Telesales see:


For further information about the FMB-WebDynpro based New Data Collation see here:

https://help.sap.com/viewer/ac2edcbb31de46e48bb3986017667d9a/7.0.6/en-US/8e0cbd535862aa23e1000000a441470.html

**Required and recommended action(s):**

1. If you want to continue using some of the Sales Logistics Cockpit functionalities, you can check if a switch to S4SCSD Telesales might provide some of the functionalities you need. You may also check if the new S4SCSD Data Collation (based on FPM and Web Dynpro technology) can help you realize similar functionalities.

2. You need to consider this as a project, as there are no migration tools which may assist you in transferring code of form-routines into class-methods or similar. All adaptations need to be executed manually.

3. You need to organize knowledge transfer to all users working with Sales Logistics Cockpit as their pattern of work will change when working with the "New Data Collation" or Telesales. Users will have to use new applications for creating, changing, displaying and processing new documents.

4. An introduction to the new Data Collation can be found in a course available on openSAP:
   https://open.sap.com/courses/ogsd1
   Week 2 Units 1 - 4 deal with the new Data Collation.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA,
Transactions /ICO/MO_3C, /ICO/MO_3C_FRM, /ICO/MO_VLC_FRM

**56.4 S4TWL - OGSD - Liquid Petrol Gas**

Application Components: IS-OIL-DS-OGSD

**Related Notes:**

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<thead>
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<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2489643</td>
<td>S4TWL - OGSD - Liquid Petroleum Gas</td>
</tr>
</tbody>
</table>
Symptom

You are converting a system with installed Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application "Liquid Petroleum Gas", a Step-Loop-Application for processing Gas and Bottles using SAP-GUI.

Solution

Description:

The application Liquid Petroleum Gas incorporates the processes for the administration and processing of gas and bottles as a retrospective entry of all activities resulting from the purchase and procurement of LPG products and the delivery of these products to customers. This means, it processes sales and lending data "after the fact" and calls all needed functions or transactions from SD and MM for the actual process.

Business related information:

The application Liquid Petroleum Gas integrates and automates frequently used processes mainly in Materials Management (MM) and Sales and Distribution (SD) by passing data to the Classic Data Collation (see SAP note 2477777) by either making use of the Classic Interfaces (which will be lost after a migration also, see SAP-note 2489544) or the New Interfaces.

It therefore represents an extension to Classic Data Collation which established the direct connection of MM and SD processes, such as procuring LPG materials, creating and changing sales contracts, sales orders, and deliveries of the said materials. LPG is discontinued in SAP S/4HANA, so all its objects and data are lost after a migration to SAP S/4HANA.

For further information about Liquid Petrol Gas see here:


For further information about the old or "Classic Data Collation", to which all data is passed from LPG, see:

https://help.sap.com/viewer/ac2edcbb31de46e48bb3986017667d9a/7.0.6/en-US/16c7a533dae0077e10000000a4450e5.html

For further information about the FMB-WebDynpro based New Data Collation see here:
This page contains a comparison between both versions allowing for a better assessment of the usability and scope of both.

**Required and recommended action(s):**

1. If you want to continue functionalities currently provided by "Liquid Petroleum Gas", you need to check if, how and where you can re-create your own LPG-functionality inside the framework provided by the "new Data Collation", which is based on FPM and Web Dynpro technology. If own functionalities exists in LPG and you have determined that the New Data Collation can be used for your business processes, you need to manually migrate your functionalities into the new Data Collation in order to make use of them in the future too, and configure the New Data Collation accordingly.

2. In this case you need to consider this migration to the new Data Collation as a project, as there are no migration tools which may assist you in transferring code of form-routines or includes etc. into class-methods or similar used by the new Data Collation. All adaptations need to be performed manually.

3. And in this case you also need to organize knowledge transfer to all users currently working with Liquid Petrol Gas as their pattern of work will change when working with the "new Data Collation". Users will have to use new applications for creating, changing, displaying and processing a new Data Collation document.

4. An introduction to "New Data Collation" can be found in a course available on openSAP:
   https://open.sap.com/courses/ogsd1
   Week 2 Units 1 - 4 deal with the new Data Collation.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA, LPG, Transactions
/ICO/MO_L1, /ICO/MO_L2, /ICO/MO_L3, /ICO/MO_L9

### 56.5 S4TWL - OGSD - Infosheet

Application Components:IS-OIL-DS-OGSD

**Related Notes:**

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<tr>
<td>Business Impact</td>
<td>2491123</td>
<td>S4TWL - OGSD Infosheet</td>
</tr>
</tbody>
</table>
Symptom

You want to convert a system with Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application "Infosheet"

Solution

Description:

"Infosheet" is an OGSD application that allows you to define screens within the "Telesales" transaction, if you are using transaction VA01, VA02 or similar transactions for IS-OIL-DS-OGSD. These screen could be defined as to the discretion of any customer, they could either show or change data withing this scope of IS-OIL-DS-OGSD. Other business or order types processed by VA01 etc. were not affected by Infosheets nor are they affected once a migration to SAP S/4HANA has taken place.

Business related information:

The business advantages of Infosheet include the creation of additional all-purpose popup-dynpros for VA01-processes etc. without requesting modifications of SAPMV45A. The screens needed to be created by the traditional means of SAP-GUI, but the inclusion into VA01-screens is done by filling customizing tables.

OGSD application "Infosheet" is discontinued in SAP S/4HANA, so all its program and DDIC-objects are lost after a migration to SAP S/4HANA.

For further information about the Telesales see:


Required and recommended action(s):

1. There is no such function in S4SCSD. If you want to continue to use functionalities in SAP S/4HANA that are provided at present by using "Infosheet" in OGSD for the Business Suite, you need make use of SAP-provided customer extensions inside SAPMV45A / transaction VA01. These may require modifications of standard SAP code or objects.
2. You need to consider this as a project, as there are no migration tools which may assist you in transfering code, data or other objects. All adaptations need to be executed manually.
3. You need to organize knowledge transfer to all users working with "Infosheet" as their pattern of work will change when working with customer extensions instead.

Other Terms

Simplification Item, System Conversion to SAP S/4HANA, Transactions /ICO/MO_IS_CHECK, /ICO/MO_FM_LS, /ICO/MO_FILL_LOUA

56.6 S4TWL - OGSD - Best Buy

Application Components:IS-OIL-DS-OGSD

Related Notes:

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<td>Business Impact</td>
<td>2490540</td>
<td>S4TWL - OGSD - Best Buy</td>
</tr>
</tbody>
</table>

Symptom

You want to convert a system with Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application Sales Logistics Cockpit with application "Best Buy"

Solution

Description:

"Best Buy" is an application integrated into the Sales Logistics Cockpit and designed to support sales processes by taking into account purchase prices and delivery costs to determine the lowest possible gross purchasing prices.

Business related information:

You can use this application "Best Buy" to support your sales processes by directly determining the best combination of the lowest purchase prices and the lowest delivery costs. The system does this by determining the lowest purchase prices from your material stocks and purchasing contracts.

Prerequisites: You have made the required settings in Customizing for the Sales Logistics Cockpit by choosing Best Buy (for details see link below).
"Best Buy" is, like Sales Logistics Cockpit, discontinued in SAP S/4HANA, so all its data are lost after a migration to SAP S/4HANA.

For further information about "Best Buy" see:


For further information about the Sales Logistics Cockpit see note 2489567 - S4TWL - OGSD - Sales Logistics Cockpit and

https://help.sap.com/viewer/ac2edcbb31de46e48bb3986017667d9a/7.0.6/en-US/1f320f54366b2e18e10000000a174cb4.html

**Required and recommended action(s):**

1. If you want to continue using Best Buy and Sales Logistics Cockpit functionalities, you need to evaluate if other SAP components provide similar functionality.
2. You need to consider this as a project, as there are no migration tools which may assist you in transferring code or functions. You need to organize knowledge transfer to all users working with Best Buy and Sales Logistics Cockpit as their pattern of work will change when working with the "New Data Collation" or Telesales. Users will have to use new applications for creating, changing, displaying and processing new documents.
3. An introduction to the new Data Collation can be found in a course available on openSAP:
   https://open.sap.com/courses/ogsd1
   Week 2 Units 1 - 4 deal with the new Data Collation.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA, Sales Logistics Cockpit

**56.7 S4TWL - OGSD - Formroutines Telesales**

Application Components: IS-OIL-DS-OGSD

<table>
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<tr>
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<th>Note Description</th>
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<tbody>
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<td>Business Impact</td>
<td>2491727</td>
<td>S4TWL - OGSD - Formroutines Telesales</td>
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</tbody>
</table>
Symptom

You want to convert a system with Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD Formroutines for Telesales

Solution

Description:

Formroutines in Telesales are used to collect data from various sections of the SD-process and prepare them for display.

Business related information:

OGSD Formroutines for Telesales allow for customer-own procedures to be integrated into Telesales.

By using Formroutines you may use, read and display data from:

a) the "Customer History", that is a list of orders and offers relating to a customer,
b) Dialogue Settings, these are settings for the screens and subscreens on the OGSD-screen inside sales transaction VA01, VA02 etc. meaning: how and where shall data be displayed?,
c) Reference Pricing,
d) Terminal Access Identification Number.

The Formroutines for Telesales are discontinued in SAP S/4HANA, so all coding is lost after a migration to SAP S/4HANA.

For further information about "Customer History" see:


For further information about "Reference Pricing" see:

https://help.sap.com/viewer/ac2edcbb31de46e48bb3986017667d9a/7.0.6/en-US/fed89af9394b46999928ff6a6530a166.html

For further information about the replacement of Formroutines in Telesales into BAdI-implementations see:
2458477 - Elemente zur Ersetzung des Formroutinenwerks im OGSD Telesales

For further information about the Telesales see:


**Required and recommended action(s):**

1. If you want to continue using Telesales functionalities currently provided by Formroutines, you need to switch to the Telesales BAdIs functionality.
2. You need to consider this as a project, as there are no migration tools which may assist you in transferring code of form-routines into BAdI-implementations. All adaptations need to be executed manually. They consist of creating BAdI-implementations and doing some customizing (this is laid out in SAP Note 2458477, see below).
3. You need to organize knowledge transfer to all users working with Telesales functionalities currently provided by Formroutines as their pattern of work, when it comes to add own functionalities to the Telesales will change.
4. If you want to migrate the Formroutines you need to check and implement SAP note 2458477 - Elemente zur Ersetzung des Formroutinenwerks im OGSD Telesales, and, as a prerequisite, 2461340 - DDIC-Elemente: Voraussetzung für Hinweis 2458477.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA, Transaction VA01

**56.8 S4TWL - OGSD - Intercompany Processes**

Application Components: IS-OIL-DS-OGSD

**Related Notes:**

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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2491134</td>
<td>S4TWL - OGSD - Intercompany Processes (IC)</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert a system with Add-on OGSD to SAP S/4HANA.

**Reason and Prerequisites**
You are using the OGSD application "Intercompany Processes" (IC)

**Solution**

**Description:**

"Intercompany Processes" is an OGSD application that allows you to create an overview of the document and quantity flow that constitutes the purchasing and sales side.

**Business related information:**

The business advantages of "Intercompany Processes" are to get quick overviews about the flow of materials, documents etc. It is based on the cross-application accumulation of quantities on the sales and purchasing side. This enables you to see, for example, whether the plants have sufficient material. include more efficient use of .

OGSD application "Intercompany Processes" is discontinued in SAP S/4HANA, so all its program and DDIC-objects are lost after a migration to SAP S/4HANA. No own data are lost, as IC makes use of data from SD and MM, which are not affected by the loss of IC.

For further information about "Intercompany Processes" see the topic for "Internal Stock Monitoring"


**Required and recommended action(s):**

1. There is no such function in S4SCSD. If you want to continue using a functionality in SAP S/4HANA that is provided at present by "Intercompany Processes" in OGSD for the Business Suite, you need to switch to other SAP- or third-party-software.
2. You need to consider this as a project. All possible adaptations need to be executed manually.
3. In case of switching to a new software you need to organize knowledge transfer to all users working with "Intercompany Processes" as their pattern of work will change when working with new software. Users will have to use new applications for creating, changing, displaying and processing new documents.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA, Internal Stock Monitoring, Transactions /ICO/MO_IC, /ICO/MO_ICRB, /ICO/MO_ICRP, /ICO/MO_ICRR, /ICO/MO_ICRS, /ICO/MO_ICLSLN, /ICO/MO_ICLOE
56.9 S4TWL - OGSD - Classic Method Framework

Application Components: IS-OIL-DS-OGSD

Related Notes:

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<tr>
<td>Business Impact</td>
<td>2491700</td>
<td>S4TWL - OGSD - Classic Method Framework</td>
</tr>
</tbody>
</table>

Symptom

You want to convert a system with Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application "Classic Method Framework"

Solution

Description:

The old or "Classic Method Framework" incorporates means of creating customer enhancements for other OGSD applications like the new Interfaces (in OGSD 6.1 and 7.0), the New Data Collation (from OGSD 7.0 only) and Retail Fuels Network Operation (RFNO, from OGSD 7.0 only) at predefined special events during the processing of data within these applications.

Business related information:

Nearly all existing business functions of the abovementioned applications are either executed or at least supported by methods or classes administered by the Method Framework. Whether you check, post or refuse interface date, enhance, save and post documents from the New Data Collation or RFNO: you have to do this using methods or classes administered by the Method Framework. A malfunction there means a malfunction in one or even all of these applications.

For further information about the old or "Classic Method Framework" as well as the New Method Framework and the migration process see SAP note 2383036 - Umbau des Methodenrahmenwerks in eine BAdI-ähnliche Form especially section "Solution" and inside this section from Chapter A). There are other SAP notes about the Method Framework, but these deal mainly with corrections of the Classic Method Framework.
Apart from SAP-notes there is no information about the Classic or New Method Framework online at present as it is no application standing for its own. As described above it is a part of the foundation of the abovementioned applications, which themselves constitute the core of OGSD and S4SCSD.

**Required and recommended action(s):**

1. If you want to continue using any of the abovementioned applications you need to switch to the New Method Framework. This migration is, while automated in most places, still relevant to be understood well. SAP note 2383036 explains the changes that will take place, how they will take place and what you have to do. It is important, that you execute all mentioned steps in sequence and completely, as the process cannot be repeated.

2. You need to consider this as a project as there are migration tools which do assist you in transferring code of *n static methods* of one class for each event into each one method in *n classes* for each event. All adaptations are executed automatically, once you have inserted a number of a transport request, namespaces you use and names of packets where newly created classes shall be assigned to.

3. Apart from the number of a workbench transport request there are already defaults for target names and packets, so this number of a transport request is the one thing you definitely need to provide to be able to start the migration process.

3. As the functionalities of the method framework have barely changed you need to organize only a small knowledge transfer to all users currently working with the Classic Method Framework as their pattern of work will not change when working with the "New Method Framework" - except for the copying process of methods, that is a bit different in the New Method Framework. All other functions are working the same way as before users when it comes to handling during the regular work.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA, Transactions 
//ICO/MI_EVTMETH_OI, //ICO/MI_MOIF_EVTMETH, 
//ICO/MI_MO_CACHE, //ICO/OO_CPCLASS_COPY

56.10S4TWL - OGSD - Old Notes

Application Components: IS-OIL-DS-OGSD

Related Notes:
Symptom

You are converting a system with installed Add-on OGSD to SAP S/4HANA.

Reason and Prerequisites

You are using the OGSD application "Notes" in the old version (from OGSD 4.72 or 6.0)

Solution

Description:

The "Notes" in the old as in the new version are designed to allow a user of OGSD to create notes about his customers and to have notes created automatically, if a predefined event does occur.

Business related information:

You can use this function to create notes about a customer or have the system create notes automatically. The system can create up to three different notes. You can use notes as reminders and set them for resubmission (RS), or have them printed on the delivery note or invoice. You can archive the notes.

There is no information about the old version of Notes online anymore, but the functionalities are quite similar to the new version of the notes.

For further information about the current version of the OGSD application "Notes" ("New Notes") see:

https://help.sap.com/viewer/ac2edcb31de46e48bb3986017667d9a/7.0.6/en-US/6480a9533ad72009e10000000a441470.html

For further information about OGSD Telephone Sales (Or Telesales), of which the Notes are part, see:


Required and recommended action(s):

1. If you want to continue using Notes, you need to switch to the new Notes (which are actually available since OGSD Release 6.1 in 2009).
2. There is a migration tool that assists you in transferring notes from the old into new tables. All adaptations are executed automatically once you start either using the customizing activity inside the IMG of Oil & Gas Secondary Distribution - Sales - Notes - Migrate Notes or directly transaction /ICO/MO_NO_MIGRATE. **But before you start the migration of old notes read and implement SAP Note 1476702**, if it has not been implemented in your system. The correction coming with this note is part of OGSD since 6.1 SP 3, if you are on a higher stack, you may start migrating any time.

3. You need to organize some knowledge transfer to all users working with the "Old Notes" as their pattern of work will change a bit when working with the "New Notes". Users will have to use new Notes in future for creating, changing, displaying and processing notes.

**Other Terms**

Simplification Items, System Conversion to SAP S/4HANA, Packet /ICO/MO_NT, Transactions /ICO/MO_NL1, /ICO/MO_NL2, /ICO/MO_NO1, /ICO/MO_NO2, /ICO/MO_NOA, /ICO/MO_NOA1, /ICO/MO_NOA3, /ICO/MO_NT01, /ICO/MO_NT02
57. Industry Oil – OTAS

57.1 S4TWL - OTAS - Integrated Dispatch Management

Application Components: LO-BSLM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tr>
<td>Business Impact</td>
<td>2490435</td>
<td>S4TWL - OTAS - Integrated Dispatch Management (IDM)</td>
</tr>
</tbody>
</table>

Symptom

You want to convert a system with Add-on OTAS to SAP S/4HANA.

Reason and Prerequisites

You are using the OTAS application Integrated Dispatch Management (IDM).

Solution

Description:

The OTAS application Integrated Dispatch Management (IDM) provides various functions with which you can plan and monitor your outbound delivery tours.

Business related information:

Application IDM provides the following functions:

A) Trip Planning (TP) which includes: Road Map, Gantt Chart, Grids, Vehicle components, Resources (for further information see the links below)

B) Combination groups: This function is used when a trip or group is being checked to determine whether defined indicators are compatible with trip requirements. You define the indicators used to check the compatibility of products and loading units as well as of transport units and customers in the BSLM menu under Integrated Dispatch Management (IDM) - Master Data- Combination Groups - Define Combination Groups. This makes it possible to check whether a loading unit is allowed to contain a specific product or whether a transport unit has specific technical tooling.
IDM is discontinued in SAP S/4HANA, so all its program and DDIC-objects as well as all data are lost after a migration to SAP S/4HANA.
But depending on the release of S4SCSD you are using or planning to use, you may or may not have a functional alternative.

1. If you are planning to use S4SCSD Release 1.0 you must know: you will not have any functionality from IDM, as it was deleted upon conversion, nor does any successor application with such functionality exist in S4SCSD 1.0.
2. If you are planning to use S4SCSD Release 2.0, you will be able to make use of a successor application offering this functionality. It is called S4IDM and works with SAPUI5 and ABAP on HANA. As this application makes use of different namespaces and is realised with different tools, you cannot migrate anything from IDM (from the Business Suite) to S4IDM in S4SCSD 2.0 running on S/4HANA.

For further information about IDM see:


For further information about IDM function "Trip Planning" see:


For further information about IDM function "Combination Groups" see:

https://help.sap.com/viewer/ac2edcbd31de46e48bb3986017667d9a/7.0.6/en-US/e7a91953a699ff07e10000000a423f68.html

**Required and recommended action(s):**

1. IDM is discontinued in SAP S/4HANA, so all its program and DDIC objects as well as all data are lost after a migration to SAP S/4HANA.
2. If you want to continue using functionalities provided for the Business Suite by IDM also in SAP S/4HANA, you need to consider switching either to S4SCSD 2.0, where a successor-application exists, or to other SAP modules / applications.
3. In case of a switching to another module, tool, functionality or application (like S4IDM in S4SCSD 2.0) you need to organize knowledge transfer to all users working with IDM as their pattern of work will change considerably after such a switch. Users will have to use new or different applications for creating, changing, displaying, processing, planning and monitoring your outbound delivery tours.
Other Terms

Simplification Item, System Conversion to SAP S/4HANA, Transactions /IDM/TR_IP, /IDM/RC, /IDM/MS_GEO_LOCATE, /IDM/SRD, /IDM/TR_EVTMETH10

57.2 S4TWL - OTAS - Integrated Petroleum Report

Application Components:LO-BSLM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2490467</td>
<td>S4TWL - OTAS - Integrated Petroleum Report (IPR)</td>
</tr>
</tbody>
</table>

Symptom

You want to convert a system with Add-on OTAS to SAP S/4HANA.

Reason and Prerequisites

You are using the OTAS application Integrated Petroleum Report (IMB)

Solution

Description:

The OTAS application Integrated Petroleum Report (IPR) is used to compile data for transfer to the Federal Export Bureau (BAFA).

Business related information:

The OTAS application Integrated Petroleum Report (IPR) is used to compile the data for transfer to the Federal Export Bureau (BAFA).

IPR is discontinued in SAP S/4HANA, so all its program and DDIC objects are lost after a migration to SAP S/4HANA.

For further information about IPR see:

https://help.sap.com/viewer/ac2edcb31de46e48bb3986017667d9a/7.0.6/en-US/1f43d35225d10026e10000000a4450e5.html
Required and recommended action(s):
1. IPR is discontinued in SAP S/4HANA, so all its program and DDIC objects are lost after a migration to SAP S/4HANA.
2. If you want to continue using functionalities provided for the Business Suite by IPR also in SAP S/4HANA, you need to consider switching to other SAP modules / applications.
3. In case of a switching to another module, tool or functionality you need to organize knowledge transfer to all users working with IPR as their pattern of work may change considerably after such a switch. Users will have to use new or different applications creating such a report.

Other Terms

Simplification Item, System Conversion to SAP S/4HANA, Transaction /OTAS/IMB

57.3 S4TWL - OTAS - Sales Activities

Application Components: LO-BSLM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2490447</td>
<td>S4TWL - OTAS - Sales Activities</td>
</tr>
</tbody>
</table>

Symptom

You want to convert a system with Add-on OTAS to SAP S/4HANA.

Reason and Prerequisites

You are using the OTAS application Sales Activities (or Sales Action) in combination with OGSD.

Solution

Description:

You can use this OTAS application Sales Activities (or Sales Action) to map the commission transaction.

Business related information:
The action partner (commission recipient) provides services to a group of ship-to parties (delivery locations) in a specific region. The company issues a quotation to its action partners. You need to create a quotation, the action document, concerning the delivery of various products with various delivery dates and prices. The action partner forwards this quotation, with any necessary changes, to the ship-to party. When a quotation results in an order, a commission settlement will be made for the action partner based on the orders that are delivered to its ship-to parties.

OTAS application Sales Activities is discontinued in SAP S/4HANA, so all its program and DDIC objects as well as all data are lost after a migration to SAP S/4HANA.

For further information about "Sales Activities" (= "Sales Action") see:


**Required and recommended action(s):**

1. OTAS application "Sales Activities" is discontinued in SAP S/4HANA, so all its program and DDIC objects as well as all data are lost after a migration to SAP S/4HANA.
2. If you want to continue using functionalities provided by OTAS application "Sales Activities" also in SAP S/4HANA, you need to consider switching to other SAP modules / applications.
3. In case of a switching to another module, tool or functionality you need to organize knowledge transfer to all users working with OTAS-Application "Sales Activities" as their pattern of work will change considerably after such a switch.

Users will have to use new or different applications for creating, changing, displaying, processing, planning and monitoring your commission transactions.

**Other Terms**

Simplification Item, System Conversion to SAP S/4HANA, OTAS Application Sales Action, Transactions /OTAS/SA_ACTION, /OTAS/SA_EVALUATION
58. Industry Public Sector

58.1 S4TWL - Functionality German Local Authorities

Application Components: PSM-FM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270467</td>
<td>S4TWL - Functionality German Local Authorities</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In Funds Management, all transactions, configuration and master data attributes related specifically to German Local Authorities have been disabled/hidden by a switch.

**How to determine relevancy**

Go to transaction SE16N and type “FMISPS” to the table field.

Click on the execute button (or F8).

Check field KOM_ACTIVE. If the field value is empty, no action is required. If the field value is "X", please proceed as follows.

**Business Process related information**

Customers requiring functionality from the scope of the objects removed need to check on an individual basis if and how their needs can be satisfied with the remaining Funds Management functionality. Affected business processes cannot be executed any longer.

**Required and Recommended Action(s)**

Make sure that the field value KOM_ACTIVE is empty before starting the system conversion to SAP S/4HANA. You can do this via customizing (IMG) - Public Sector
Management - Funds Management Government - Basic Settings - Activate Global Functions for German Government - Field "Authorities Germany"

See SAP note 2868358 in case of error message FI_E207.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2226072 |

**58.2 S4TWL - Authorization in Funds Management**

Application Components: PSM-FM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2339149</td>
<td>S4TWL - Authorization in Funds Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In the Business Suite, authorizations for Funds Management master data elements could be maintained in two ways:

- old authorization concept (up until 4.6c) based on the key of the respective master data object
- new authorization concept (beginning with SAP R/3 Enterprise EA-PS 200) using 'authorization groups'

In SAP S/4HANA, the decision was taken to only support the use of authorization groups.

**Business Process related information**
Customers need to switch to the new authorization concept provided with SAP R/3 Enterprise, which is the only concept supported in S/4HANA.

**Influence on Business Processes**

Revise your authorization concept for Funds Management by determining authorization groups, rather than assigning individual master data keys to the respective authorization object.

**How to determine relevancy**

Go to transaction SE16N. Enter the name of the table FMISPS. Click on execute or F8. In the table entry check the value of the field AUTH_CHECK_OLD. If the value is blank, nothing has to be done. If the value is X that means you are still using the old authorization concept that’s not supported anymore.

**Required and Recommended Action(s)**

In the ECC source system which you are planning to convert to SAP S/4HANA,

1. Assign authorization groups to your master data objects by using the following transactions:
   - Maintain Commitment Item (transaction FMCIA)
   - Create/change Funds Center (transaction FMSA/FMSB)
   - Create/change Fund (transaction FM5I/FM5U)
   - Edit Budget Period (transaction FMBPD)
   - Process Functional Area (transaction FM_FUNCTION)
   - Edit Funded Program (transaction FMMEASURE)

2. Assign the authorization groups used in the above master data transactions to the authorization objects and remove the individual master data keys from the authorization objects. Make sure the new or revised authorization objects are included in the respective user roles (transaction PFCG).

3. De-activate the 'old authorization' concept in the IMG menu of Funds Management using Public Sector Management --> Funds Management Government --> Basic Settings --> Authorization check --> Activate Old Authorization Check

Make sure the flags are unchecked in this entry.

4. De-activate the BAdI for 'Partially Activate Old Activities' in the IMG menu of Funds Management using Public Sector Management --> Funds Management Government --> Basic Settings --> Authorization check --> BAdI: Partially Activate Old Activities
Make sure no active BAdIs remain here.

58.3 S4TWL - Public Sector localization for Hungary Deprecation

Application Components: FI-LOC-PS-HU

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3347307</td>
<td>S4TWL - Public Sector localization for Hungary Deprecation</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA or an upgrade from a lower to a higher SAP S/4HANA release and are using the functionality described in this Note.

The following SAP S/4HANA Simplification Item SI12 Public Sector FI-LOC-PS-HU is applicable in this case.

**Solution**

**Description**

Packages GLO_REP_EAPS_HU, GLO_REP_EAPS_SFWS_01 and it's contents becomes obsolete because of no customer usage. Objects stored in the package and corresponding subpackages are removed including their references from other objects.

**Business Process related information**

Public Sector Localization for Hungary stored in packages GLO_REP_EAPS_HU, GLO_REP_EAPS_SFWS_01 and it's subpackages is not being used and has been deprecated in S/4HANA OP2023 and became obsolete in all the supported lower versions.

Regarding S/4HANA OP2021 release, for transition period of 2 years the package and it's subpackages has been moved to SW component 'S4DEPREC' if the restoration of the functionality is needed.

Note content:

1) Existing **references** in objects ('Ref. Object Name') pointing to the objects in the package /GSINS/RU and it's subpackages **were removed**:
**Object Name** | **Package** | **Application Area** | **Software Component** | **Info** | **Ref. Object Type** | **Ref. Object Name**
---|---|---|---|---|---|---
/GLSINS/CL_CHECK_EHP | /GLSINS/REU | FS-CM-LC | INSURANCE | used by | ENHO | /GLSINS/CL_FSCM_LOC_T R_605

**Required and Recommended Action(s)**

In general, SAP recommends that you install a solution by applying a Support Package. You can find more information about the Note Assistant in SAP Service Marketplace, under [service.sap.com/note-assistant](http://service.sap.com/note-assistant).

**IMPORTANT:**

To complete the installation procedure for **S4TWL - Public Sector localization for Hungary Deprecation** you have to implement the automatic correction instructions from this Note 2978033.

Remember, that you cannot use your own coding/functionality anymore which is based on the removed coding/functionality, explained in this Note 3347307.

**Other Terms**

Public Sector, Hungary, S4DEPREC, deprecation, obsolete, GLO_REP_EAPS_HU, GLO_REP_EAPS_SFWS_01

**58.4 S4TWL - Former Budgeting System (FBS) in Funds Management**

Application Components: PSM-FM

Related Notes:

<table>
<thead>
<tr>
<th><strong>Note Type</strong></th>
<th><strong>Note Number</strong></th>
<th><strong>Note Description</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270413</td>
<td>S4TWL - Former Budgeting System (FBS) in Funds Management</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**
Description

In the Business Suite, the process budget maintenance was reflected by two tools, the older Former Budgeting System or FBS (co-development with the Project System budget capabilities) and the more recent Budget Control System (BCS). While a migration from FBS to BCS is available since release ECC 5.0 already, a large number of customers was quite satisfied with FBS and never saw a business need to execute the migration. SAP did never announce the end of life for FBS in the Business Suite.

For SAP S/4HANA, the decision was taken to only support BCS as a tool, also because the architecture of BCS is much more suitable to the simplification approach.

Business Process related information

Customers need to reconsider their needs in budget maintenance and how these are best reflected in BCS. Different objects and configuration (compared to FBS) is available to support budget maintenance. The BCS tool is already available since ECC 5.0, thus impact analysis, PoCs, migration tests and migration can take place before the system conversion to SAP S/4HANA.

Once on SAP S/4HANA, the FBS data is still available but operational transactions are blocked. As the typical timeframe of an approved budget is one year, the time remaining after system conversion to SAP S/4HANA might not be sufficient to consider and execute a smooth Conversion. It is therefore recommended from a business perspective to perform the FBS -> BCS migration before the system conversion to SAP S/4HANA.

How to determine relevancy

1. Using transaction SE16N, read table FM01 to get the list of all FM areas in the client.
2. Using transaction SE16N, read BCS configuration table FMBCSA for each FM area defined in table FM01.
   - Case 1: BCS is active. If the maintained year (fiscal year) is earlier than or equal to the current fiscal year of the FM area, BCS is already in use. No action is required.
   - Case 2: FBS to BCS migration is planned for future years. Maintained fiscal year is later than current fiscal year. Check if migration from FBS was already completed by selecting from the BCS budget header table FMBH using transaction code SE16N.
     - If an FMBH entry was found, then migration to BCS was already completed. No action is required.
     - If no FMBH entry was found, migration to BCS was not completed and FBS might still be in use. Proceed as described above in Business Process related information to migrate FBS to BCS.
Case 3: FBS is still active. If no entry is found for an FM area:
- look for entries in the totals tables BPJA and BPGE (for OBJNR like “FSXXXX*” where XXXX is the FM area)
- If an entry is found in one of the totals table (BPJA or BPGE), then migration to BCS was not performed and **FBS might still be in use. Proceed as described above** in Business Process related information to migrate FBS to BCS.
- If NO entry is found in any of the 2 tables (BPJA or BPGE), FBS has not been used. **No action is required.**

**Influence on Business Processes**

The business process change is not predictable and strongly depends on the chosen implementation of BCS.

**Required and Recommended Action(s)**

None

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Custom Code related information</td>
<td>The FBS tool is only technically disabled, not removed. Customer code referencing FBS objects thus remains technically functional. Customers need to analyse what their code is doing and need to consider if and how to reflect this in BCS. A complete rewrite will be required as the two tools do not share objects.</td>
</tr>
<tr>
<td></td>
<td>For more details see SAP Note: 2226048</td>
</tr>
</tbody>
</table>

**58.5 S4TWL - Functionality for FACTS I and FACTS II (Federal Agencies Centralized Tri)**

Application Components: PSM-FG

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270415</td>
<td>S4TWL - Functionality for FACTS I and FACTS II (Federal Agencies Centralized Trial Balance System)</td>
</tr>
</tbody>
</table>

**Symptom**
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

As mandated by US Treasury, the US Federal specific Trial Balance System has been changed from FACTS I (Federal Agencies Centralized Trial Balance System I) and FACTS II (Federal Agencies Centralized Trial Balance System II) to GTAS (Government-wide Treasury Account Symbol Adjusted Trial Balance System) starting with fiscal year 2014. SAP's US Federal Ledger 95 (FMUSGA and FMUSFGT) is now the single reporting ledger for financial reports such as GTAS bulk files and Trial Balances. It replaces the US Federal Ledgers 96 and 97 (FMUSFGFACTS1A, FMUSFGFACTS1T as well as FMUSFGFACTS2A and FMUSFGFACTS2T).

Business Process related information

All known customer implementations have already switched to GTAS, aligning with the legal regulations for FACTS/GTAS. This entry just appears for the record.

The business process remains as is.

| Transaction not available in SAP S/4HANA | RFACTS1_BL   |
|                                         | RFACTS1_FILE_SEND |
|                                         | RFACTS2_BL   |
|                                         | RFACTS2_UPLMAF |
|                                         | RFACTS2_MAF   |
|                                         | RFACTS2_EXTRACT |
|                                         | RFACTS2_FOOTNOTE |
|                                         | RFACTS2_EDITS |
|                                         | RFACTS2_FILE_SEND |

How to determine relevancy
Go to transaction SE16N and type “FMUSFGFACTS1A” into the table field. Enter the current fiscal year (RYEAR) and prior year for selection. Click on the execute button (or F8).
If no entries were found in the selection, type in table name “FMUSFGFACTS2A” instead, enter the current fiscal year (RYEAR) and prior year, and execute.

If entries are found in either of the selections, look at note 2225817. If no entries are found in either of the selections, nothing else has to be done.

**Required and Recommended Action(s)**

None

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>All related objects do still exist, thus no technical problems (like syntax errors) will occur all existing data resulting from the use of ADB in the Business Suite will remain untouched/unchanged</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Custom code for reporting purposes does not need to be changed to continue to display existing FACTS results and rules. Code that is used to maintain the FACTS settings or to execute FACTS functionality can no longer be executed.</td>
</tr>
<tr>
<td></td>
<td>This is documented in SAP note 2225817.</td>
</tr>
</tbody>
</table>

**58.6 S4TWL - Expenditure Certification**

**Application Components:** PSM-EC

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270418</td>
<td>S4TWL - Expenditure Certification</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
Expenditure Certification is a functionality which was based on a legal framework of subsidy funding from the European Community. This type of funding was last approved by the European Union in 2012, after which the legal framework was changed such that the detailed kind of process is no longer legally required. Due to this, and as Expenditure Certification also was only used by a few customers in ERP, it is no longer considered the target architecture in SAP S/4HANA. Activation of BF in SAP S/4HANA is not supported for new customers, customers with BF activated in Business Suite and migrating to S/4HANA should contact SAP Product Management to discuss strategy going forward. Currently there is no functional equivalent as alternative available.

**Business Process related information**

Customers, who used Expenditure Certification in ERP and are planning to move to S/4HANA, have to remodel their business processes accordingly if they still see a need or use for such functionality.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>FMECDERIVE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FMECDERIVER</td>
</tr>
<tr>
<td></td>
<td>FMEUFDD</td>
</tr>
<tr>
<td></td>
<td>FMEUFFINTYP</td>
</tr>
<tr>
<td></td>
<td>FMEUFINTERV</td>
</tr>
<tr>
<td></td>
<td>FMEUFLEVELS</td>
</tr>
<tr>
<td></td>
<td>FMEUFLP1</td>
</tr>
<tr>
<td></td>
<td>FMEUFLP2</td>
</tr>
<tr>
<td></td>
<td>FMEUFRPROC</td>
</tr>
<tr>
<td></td>
<td>FMEUFRCODE</td>
</tr>
<tr>
<td></td>
<td>FMEUFTAXHAN</td>
</tr>
</tbody>
</table>

**How to determine relevancy**

Go to transaction SFW2 and check if the Business Function PSM_EXP_CERT is active or not. If the activation status of the Business Function is not ON then they have to do nothing.

If the Activation status of the Business Function is ON: Go to transaction SE16N, check if there are any entries in the table FMEUFRUN. If there are any entries in the table
FMEUFRUN, then please refer to the note 2270418. If no entries are found, no action is needed.

**Required and Recommended Action(s)**

In order to proceed with the system conversion, the business function PSM_EXP_CERT needs to be switched off in case it is active (use transaction SFW5 to switch them off).

Furthermore, the derivation strategy for deriving Operations must be deleted in all system clients. If you cannot manually delete the strategy in all clients, use the deletion program of SAP note 3258666.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>SAP note 226049</th>
</tr>
</thead>
</table>

**58.7 S4TWL - Specific fields on Business Partner**

Application Components: PSM-FG

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270420</td>
<td>S4TWL - Specific fields on Business Partner</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With the introduction of Business Partner and Customer/Vendor Integration (CVI) as mandatory aspects of SAP S/4HANA, customer and vendor master record creation, maintenance and display is only possible via the Business Partner functionality. In both customer and vendor client and company code-specific tables, specific fields relevant for US Federal Financials had been added, which are now also available via the business partner transaction 'BP'. Refer to the simplification item for business partner for general information (*Business Partner Approach*).
Business Process related information

Business Partner transaction 'BP' is now used to create, change or display customer or vendor data. This also applies to the specific fields required in US Financials. Use the role for 'Business Partner Vendor (FI part)' (FLVN01) and 'Business Partner Customer (FI part)' (FLCU01)' and the tabs 'Customer - USFG Fields' and 'Vendor - USFG Fields' to display and maintain the specific fields.

The business process is not affected, only a different transaction needs to be used

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>FK01</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FK02</td>
</tr>
<tr>
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<td>FK03</td>
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<td></td>
<td>XD02</td>
</tr>
<tr>
<td></td>
<td>XD03</td>
</tr>
</tbody>
</table>

How to determine relevancy

please refer to OSS note 2265093 for a general overview of the Business Partner conversion concept and how to determine relevancy.

Required and Recommended Action(s)

None

Related SAP Notes
Custom Code related information

Customer code to create or change customer or vendor master data needs to be changed such that the business partner is created or maintained instead. The alignment with customer/vendor master data tables is the executed automatically as part of the CVI feature.

For more details see SAP Note: 2226131

### 58.8 S4TWL - Fund Accounting based on Special Ledger

Application Components: PSM-FA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270444</td>
<td>S4TWL - Fund Accounting based on Special Ledger</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Business Value**

In SAP S/4HANA, the Universal Journal (ACDOCA) is the heart of Accounting and includes all master data entities required to support Fund Accounting and provides the data model needed to generate financial as well as management information compliant with Public Sector accounting regulations. Document splitting as the core feature to achieve self-balancing accounting documents by Fund also is available in the standard General Ledger in SAP S/4HANA.

Fund Accounting using Special Ledger tables is still possible, but not the recommended solution going forward as it results in data redundancies as well as requires reconciliation efforts between the data tables.

A major benefit of the use of the Universal Journal is to avoid data redundancies and eliminate reconciliation efforts by using a single location for General Ledger, Controlling, Asset Accounting as well as Fund Accounting. Offering a unified view of transactional data (with account assignment dimensions from different applications) in one location, allows for multi-dimensional reporting with flexible drill-down and provides a single source of truth for financial as well as management reporting.
For more information about the features and benefits of Universal Journal in general and more specific for Fund Accounting there, refer to the Innovation Discovery item ‘General ledger and reporting (unified journal) for SAP S/4HANA’ and ‘Fund accounting in SAP Accounting powered by SAP HANA’.

Description

Any functionality based on Special Ledger (and therefore Fund Accounting based on Special Ledger as well), whether built as a custom implementation or based on SAP recommendations, is still supported in SAP S/4HANA. However, new developments / simplifications will be based on the Universal Journal Entry only. Customers currently using Fund Accounting based on Special Ledger might consider a migration to New General Ledger with document splitting prior to the system conversion to SAP S/4HANA (due to the fact that a direct migration from Special Ledger with document splitting to the GL with Universal Journal and document splitting in SAP S/4HANA is not available).

Note that a migration from New General Ledger as well as from the classic General Ledger into a basic implementation of the General Ledger using the Universal Journal is mostly done automatically - see simplification item note for General Ledger for further details.

Business Process related information

The available successor functionality offers the same processes and features.

How to determine relevancy

Go to transaction SE16N and type “T881” into the table field. Enter "FI" into the selection field Application and "SL" into the selection field Subapplication. Click on the execute button (or F8). Look for any ledger with a Totals Table in the "ZZ*" name range. Remember this table name. Click on the back button (F3). Enter the name of the totals table that was found in the previous step as Table, and execute. If no entries are found in the table, nothing else has to be done.

Required and Recommended Action(s)

None

Related SAP Notes

| Custom Code related information | There is no direct influence expected, custom code remains functional. With a Conversion from Fund Accounting based on Special Ledger to any new approach, all custom coding will need to be adjusted |
58.9 S4TWL - Data Structure changes in BCS

Application Components: PSM-FM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270445</td>
<td>S4TWL - Data Structure changes in BCS</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

All 3 aggregate/totals tables in the Budget Control System (BCS) are no longer updated. The totals table update has been replaced as follows:

- Budget totals, stored in table FMBDT: For any budget change, BCS has always created corresponding line items, stored in table FMBDP. With SAP S/4HANA, totals are no longer updated in table FMBDT, instead they are calculated via FMBDP. As the line items already exist, no migration is needed for migrating customers. A compatibility view is attached as proxy object to the totals table (CDS view V_FMBDT).

- Revenue Increasing Budget (RIB) totals, stored in table FMRBT: For this table, normally no customer has ever written any line items. However, since RIB rules are strictly year-dependent, a simple reconstruction is needed for upgrade customers: Run TA FMRBREINIT for the current fiscal year to populate the line item table FMRBP, making the RIB functions work again. The table FMRBT is no longer update. A compatibility view is attached as proxy object to the totals table (CDS view V_FMRBT).

- Active Availability Control (AVC) totals, stored table FMAVCT: For this table normally no customer has written change or line items. The update of the change records for AVC in table FMAVCT_RECON_YR is initiated by executing the re-initialization of AVC data via transaction FMAVCREINIT. Until execution, the totals table will still be updated for migrating customers. For new customers (in the sense of no technical migration from a non-SAP S/4HANA system), change records will be created from the beginning and the totals table is not updated.
There is a compatibility view for AVC, the CDS view V_FMAVCT_COMPAT. However, this view is not yet attached as proxy object to table FMAVCT.

**Business Process related information**

The change is of technical nature. All business processes and transactions remain functional and appear unchanged to users.

**How to determine relevancy**

Go to transaction SE16N and check if there are any entries in the totals table FMRBT for Revenue Increasing Budget. If there are any entries in the table, run transaction FMRBREINIT for the current fiscal year to populate the line item table, as described above.

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Custom Code related information</th>
<th>No technical object has been deleted or changed, thus no syntax error will occur. However, data content is changed and needs to be considered</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>For more details see SAP note 2226129</td>
</tr>
</tbody>
</table>

**58.10S4TWL - Funds Management Dimensions as part of the Universal Journal**

Application Components: PSM-FA

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
All fields which used to be supported in the standard newGL tables for Public Sector, FMGLFEXx and PSGLFLEXx, (such as Functional Area and Fund) are now part of the Universal Journal Entry table ACDOCA.

The new journal entry feature offers all dimensions needed to generate financial as well as management information compliant with Public Sector accounting regulations.

Document splitting functionality remains as before

Migration from New General Ledger to Universal Journal Entry also manages Public Sector Management (PSM) fields and specific source tables.

Compatibility views for the no longer updated newGL tables are generated as part of the migration process

**Business Process related information**

Customers will technically use the Universal Journal as the GL transaction data table.

| Transaction not available in SAP S/4HANA | See the respective FI-GL simplification items. |

**How to determine relevancy**

Go to transaction SE16N and type T881 into the table field. Click on the execute button (or F8). Look for the row where the column named “Leading Ledger” has an “X” and “Subapplication” is “PSM” or “PSX”. Check that row for the name of the leading ledger, which is indicated by the column called “Totals Table”. Remember this table name. Click on the back button (F3). Enter the name of the totals table that was found in the previous step, and execute. If there are entries in the table, above information given under "Description" and below required and recommended actions apply. If no entries are found in the leading ledger table, nothing else has to be done

**Required and Recommended Action(s)**

Due to the existence of compatibility views, custom code for reporting purposes does not need to be changed to continue to display GL data. You should however consider to exchange access to GL data by natively accessing the universal journal table ACDOCA to benefit from the flexibility that this new concept offers. Also, consider that the concept of compatibility views puts the focus on compatibility of the new structures with old structures, not on improving the performance of old access

Code that is used to maintain GL settings should no longer be executed. You need to adapt such coding to the new GL functionality using the new GL configuration.
Code that is used to post journal voucher entries via GL entry documents is not affected and will continue to work.

Data migration activities are required and covered in the documentation for the universal journal.

**Related SAP Notes**

| Custom Code related information | All related objects do still exist, no technical problems (like syntax errors) will occur all existing data resulting from the use of classic GL or newGL in the Business Suite will remain untouched/unchanged compatibility views do exist which technically read data from the universal journal table ACDOCA but present them to consumer programs under their old name and structure
For more details see SAP Note: 2226134 |

**58.11S4TWL - Functionality for BCS Multi-level Budget Structure**

Application Components: PSM-FM

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Multi-level Budget Structure (MBS) in the Budget Control System allows a customer to perform hierarchical budget processes like:

- top-down distribution
- bottom-up roll-up
The functionality does support timeframe-dependent definition of hierarchies of Funds Management master data.

The functionality was only used by less than 5 productive customers in the Business Suite, and deemed as complex to configure and complex to handle.

It is therefore no longer considered the target architecture in SAP S/4HANA. Activation of BF in SAP S/4HANA is not supported for new customers.

**Business Process related information**

A customer needs to decide if hierarchy-based budget processes are relevant to him and how to reflect them with the remaining functionality. No standard suggestion can be given.

The existing Business Processes cannot be executed in a hierarchical environment any longer.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA on-premise edition 1511</th>
<th>FMHIE_CHANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FMHIE_CHKINCONDATA</td>
</tr>
<tr>
<td></td>
<td>FMHIE_CHKINCONDISTR</td>
</tr>
<tr>
<td></td>
<td>FMHIE_COPY FMHIE_DELETE</td>
</tr>
<tr>
<td></td>
<td>FMHIE_DISPLAY</td>
</tr>
<tr>
<td></td>
<td>FMHIE_EXPORT FMHIE_GENERATION</td>
</tr>
<tr>
<td></td>
<td>FMHIE_HIEID FMHIE_IMPORT</td>
</tr>
</tbody>
</table>

**How to determine relevancy**

Go to transaction SFW5 (do NOT use SFW2, which will only show you the business function definition, not the current activation in the system) and check if any of the two MBS business functions PSM_FM_BCS_MBS and PSM_FM_BCS_MBS_2 are turned ON or not. If both of the Business Function are not turned ON then nothing has to be done. If either one or both of the Business Functions are turned ON, then please proceed as mentioned above.

**Required and Recommended Action(s)**
In order to proceed with the system conversion, the business functions mentioned above need to be switched off in case they are active (use transaction SFW5 to switch them off). Please note that with SAP S/4HANA 1909 some of the functionality included in this business functions is available again but business function activation is no longer needed. For more information about the available functionality in S/4HANA, refer to the 'What's New' documentation for [Multi-Level Budget Structures in Funds Management Budgeting].

**Related SAP Notes**

| Custom Code related information | SAP Note: 2226122 |

**58.12S4TWL - Functionality Average Daily Balance-based Distribution**

Application Components: PSM-FA

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270466</td>
<td>S4TWL - Functionality Average Daily Balance-based Distribution</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The Average Daily Balance-based Distribution (ADB) functionality is not available with SAP S/4HANA. The architecture of the functionality would require considerable rework to follow the simplification paradigms of SAP S/4HANA. This is not justified as it has only been used by very few customers. The functionality is not part of a legal requirement.

Technically, the functionality has only been disabled, all objects and all existing data remains in place

**Business Process related information**
The feature did require to keep a complete copy of the leading general ledger on a daily fiscal year variant basis to support the calculation of average daily balances. This data is no longer needed/supported thus reducing the data footprint. The distribution result are FI journal voucher documents which remain unchanged. Also, as the functionality is only disabled, the full configuration and calculation trail that had existed is still available for review purposes.

If the business process is still used, a customer needs to establish distribution-relevant information from the leading ledger via an analytical approach (possible, but no content made directly available), calculate the distribution and enter a journal voucher to distribute the amounts in question from source to target.

<table>
<thead>
<tr>
<th>Transaction not available in SAP S/4HANA</th>
<th>FMADB_CREATE_FYV</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FMADB_CUSTOM</td>
</tr>
<tr>
<td></td>
<td>FMADB_POST</td>
</tr>
<tr>
<td></td>
<td>FMADB_TRACE</td>
</tr>
</tbody>
</table>

**How to determine relevancy**

Execute transaction SM34, enter view cluster VC_FMADB. Click on Display.

- Select each ADB rule (table FMADB_HEADER), and look for records in the following folders:
  - Pool account assignments (tables FMADB_POOL)
  - Bank Accounts (FMADB_GLACCOUNT)
  - Incoming Interest Posting (table FMADB_INT_DOC) without blanks in document type and account fields
  - Transfer Parameters (table FMADB_DOC) without blanks in document type, posting keys and target account fields

- If all these customizing records are found for at least one ADB rule (header), please proceed as described above.

**Required and Recommended Action(s)**

In order to distribute remaining amounts based on prior to using S/4HANA, run report RFFMS_ADB_INTERESTS_POST. After migration to S/4HANA, undistributed amounts need to managed as described above.

**Related SAP Notes**

| Custom Code related information | SAP Note: 2226071 |
59. Industry Retail & Fashion

59.1 S4TWL - Retail Power Lists

Application Components: LO-SRS-IM, LO-SRS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371193</td>
<td>S4TWL - Retail Power Lists</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA Retail for merchandise management, retail power lists are available, but defined as "not strategic any more". See SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition, refer to ID 104 in the xls.

Business Process related information

Move to strategic technology once available, e.g. relevant CDS content.

Required and Recommended Action

No special action for retail power lists is needed when converting from SAP ERP to SAP S/4HANA.

59.2 S4TWL - Retail Closed BW Scenarios

Application Components: BW-BCT, BW-BCT-ISR, BW-BCT-ISR-AA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371195</td>
<td>S4TWL - Retail Closed Loop BW Scenarios</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA Retail for merchandise management, retail closed loop BW scenarios are available, but defined as "not strategic any more". See SAP note [2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition](https://support.sap.com), refer to ID 104 in the xls.

Business Process related information

Move to strategic technology once relevant content for CDS, or BW/4HANA is available.

Required and Recommended Action

No special action for retail closed loop BW scenarios is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if retail closed loop BW scenarios are used. This is for example the case if transactions WA56 is used. This also can be checked via transaction SE16N. Enter table TMCW_AA_QRY and check whether there are any entries, this is a good indicator for usage.

59.3 S4TWL - Retail Markdown Plan

Application Components: LO-MD, LO-MD-PR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371590</td>
<td>S4TWL - Retail Markdown Plan</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA Retail for merchandise management, functionality of retail markdown plan is available, but defined as "not strategic any more". See SAP note [2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition](https://support.sap.com), refer to ID 104 in the xls.

**Business Process related information**

Move to available functionality of markdown profile integrating in the price planning workbench.

Furthermore, SAP evaluates whether to develop a price and markdown optimization solution as a consuming application on SAP Customer Activity Repository.

**Required and Recommended Action**

No special actions for retail markdown plan is needed when converting from SAP ERP to SAP S/4HANA.

**How to Determine Relevancy**

This Simplification Item is relevant if markdown planning is used. This is the case if transactions WMF1, WMF2, WMF3, WMF4, WMF5, WMF6, WMF7, WMF_ARCHR, WMF_SARA, WMR1, WMR2, WMR3, WMR4 are used.

This also can be checked via transaction SE16N. Enter table WMFH, or WMFP and check whether there are any entries.

**59.4 S4TWL - Retail Bonus Buy**

Application Components: SD-BF-FG, SD-BF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371559</td>
<td>S4TWL - Retail Bonus Buy (transaction VBK*)</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA Retail for merchandise management, bonus buy functionality via transactions VBK1 VBK2 VBK3 VBK6 is available, but defined as "not strategic any more". See SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition, refer to ID 104 in the xls.

Business Process related information

Move to available bonus buy functionality via transactions RDMBB*.

Required and Recommended Action

No special actions for bonus buy is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if bonus buy functionality via IDocs is used. This is the case if transactions VBK1 VBK2 VBK3 VBK6 are used. This also can be checked via transaction SE16N. Enter table KONBBYH and check whether there are any entries.

59.5 S4TWL - Retail Sales Forecasting

Application Components: IS-R-PUR-AHD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371616</td>
<td>S4TWL - Retail Sales Forecasting</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA Retail for merchandise management, retail sales forecasting is available, but defined as "not strategic any more". See SAP note [2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition](https://support.sap.com), refer to ID 104 in the xls.

Business Process related information

The following areas are affected:

- Sales forecasting for stores
- Import of external forecast data
- Forecast with AHD (Alternative Historical Data)

UDF (Unified Demand Forecast) is strategic for forecasting in retail, which is part of SAP Customer Activity Repository.

Required and Recommended Action

No special actions for retail sales forecasting is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if retail sale forecasting is used.
This is the case if transactions MAHD1, MAHD2, MAHD3, MAHD4, MDRD1, MDRD2, MDRD3, MDRD4, WFCS01, WFCS02, WFCS03, WFCS04, MPR1, MPR2 are used.
This also can be checked via transaction SE16N. Enter table MAHD, WFCS_WRFT and check whether there are any entries.
59.6 S4TWL - Retail Order Optimizing: Load Build, Investment Buy

Application Components: IS-R-PUR-LB, IS-R-PUR, IS-R

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371602</td>
<td>S4TWL - Retail Order Optimizing: Load Build, Investment Buy</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA Retail for merchandise management, functionality to support order optimizing via load build, and investment buy is available, but defined as "not strategic any more". See SAP note [2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition](#), refer to ID 104 in the xls.

Business Process related information

There is SAP Forecasting & Replenishment as an existing solution alternative.

Required and Recommended Action

No special actions for order optimizing via load build, and investment buy is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if retail order optimizing is used. This is the case if transactions WLB1, WLB2, WLB3, WLB4, WLB5, WLB6, WLB7, WLB13, WLBA, WLBB, WLBC are used.

This also can be checked via transaction SE16N. Enter table WVFB, WBO* and check whether there are any entries.
59.7 S4TWL - Retail Rapid Replenishment

Application Components: IS-R-PUR-RP, IS-R-PUR, IS-R

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371539</td>
<td>S4TWL - Retail Rapid Replenishment</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA Retail for merchandise management, rapid replenishment, and planning workbench is available, but defined as "not strategic any more". See SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition, refer to ID 104 in the xls.

Business Process related information

There is SAP Forecasting & Replenishment as an existing solution alternative.

Required and Recommended Action

No special actions for rapid replenishment is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if rapid replenishment, or planning workbench is used.
This is the case if transactions WRP1R, WWP1, WWP2, WWP3, WWP4, WVM1, WVM3, WVM4, WVM5, WVM6, WVM7 are used.
59.8 S4TWL - Automatic Document Adjustment

Application Components: IS-R-PUR-ADA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267742</td>
<td>S4TWL - Automatic Document Adjustment</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA, the following differences to the process of automatic document adjustment apply:

1. The direct entry function is activated per default for all document categories to simplify the creation of worklist entries.
2. The field length of the Material Number data element (MATNR) is 40 characters. As a consequence, the field length of data element 'VAKEY' is enhanced and the database tables WIND and S111 have also been adjusted.

**Business Process related information**

1. In SAP S/4HANA, the indicator for direct entry is set now automatically during the update process of conditions. This means that:
   - When a user saves a condition change - including the creation of a new condition - an entry is made in the worklist (table WIND) for all document categories with valid Customizing settings.

For more information, please see SAP Note 519685 (Conversion of the procedure for Worklist creation).

Note also that change pointers do not have to be updated for message type CONDBI if direct entries are activated. With the conversion to the 'direct entry' procedure, you can deactivate the **update of change pointers** if you do not use it for other purposes.
2. Rebuilding business data volume (tables WIND and S111)

- SAP recommends that you process all open worklist entries completely before conversion to SAP S/4HANA. In this case, no activities for automatic document adjustment are required after the system conversion process.
- If the worklist cannot be completed in the SAP ERP system, you can proceed with the procedure described in section ‘Required and Recommended Actions on Start Release.

**Required and Recommended Action(s)**

If in the ERP system the worklist could not be completely processed, a rebuilding of the worklist for automatic document adjustment is required in SAP S/4HANA, on-premise edition 1511 -> please follow in this case the following procedure:

- Delete the content for automatic document adjustment of table S111 (Report RMEBEIN6 (transaction MEI6)) and
- Delete the content of table WIND (Report RMEBEIN5 (transaction MEI5))
- Rebuild the table entries for S111 and WIND for the used document categories by using the appropriate setup reports (see below). Make sure that the filter selection for rebuilding the S111 entries is meaningful by selecting the appropriate organizational criteria (time, org data, docnr, ...)[Rebuild is in SAP S/4HANA]

<table>
<thead>
<tr>
<th>Doc. category</th>
<th>Description</th>
<th>Report for rebuilding S111 and WIND entries</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Purchase Order</td>
<td>RMEBEIN3</td>
</tr>
<tr>
<td>02</td>
<td>Scheduling Agreement</td>
<td>RMEBEIN3</td>
</tr>
<tr>
<td>10</td>
<td>Sales Price Calculation</td>
<td>RWVKP012</td>
</tr>
<tr>
<td>11</td>
<td>Sales Price Calculation Index</td>
<td>RWVKP012</td>
</tr>
<tr>
<td>20</td>
<td>Customer billing document</td>
<td>RMEBEIL3</td>
</tr>
<tr>
<td>30</td>
<td>Vendor billing document</td>
<td>RMEBEIL3</td>
</tr>
<tr>
<td>31</td>
<td>Expense document</td>
<td>RMEBEIL3</td>
</tr>
<tr>
<td>32</td>
<td>Vendor settlement document</td>
<td>RMEBEIV3</td>
</tr>
<tr>
<td>35</td>
<td>Remuneration list</td>
<td>RMEBEIL3</td>
</tr>
<tr>
<td>40</td>
<td>Vendor settlement request</td>
<td>RMEBEIZ3</td>
</tr>
<tr>
<td>50</td>
<td>Assortment List</td>
<td>RMEBEIN3</td>
</tr>
<tr>
<td>55</td>
<td>POS-Outbound</td>
<td>RMEBEIN3</td>
</tr>
<tr>
<td>60</td>
<td>Customer settlement</td>
<td>RMEBEIK3</td>
</tr>
</tbody>
</table>

If you want to process multiple applications in one step (subsequent settlement and automatic document adjustment), you can also use report RMCENEUA.

**Related SAP Notes**
**59.9 S4TWL - Retail Additionals**

Application Components: LO-ADM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2371631</td>
<td>S4TWL - Retail Additionals</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA Retail for merchandise management, additionals functionality is available, but defined as "not strategic any more". See SAP note [2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition](https://apps.iname.com/dx/en/140/90206575), refer to ID 104 in the xls.

**Business Process related information**

For the use cases of additionals the alternatives are:

- There is an existing Fiori app to print labels.
- There is existing functionality of value added services for activities or products which are applied to ordered products that enhance their value, worth, functionality, or usefulness. It is planned to enhance functionality of value added services in future releases.
- To support processes of floor ready merchandise: development of a future solution closely integrated with SAP EWM is under evaluation.

**Required and Recommended Action**

No special actions for additionals functionality is needed when converting from SAP ERP to SAP S/4HANA.

**How to Determine Relevancy**
This Simplification Item is relevant if additions are used. This is the case if transactions WTAD, WTAD_ADDI_AL, WTAD_APPL_LOG, WTAD_ARCHR, WTAD_FMCU_CHANGE, WTAD_FMCU_DISP, WTAD_IDOC_AL, WTAD_SARA, WTAD_SUP_FM_CHANGE, WTAD_SUP_FM_DISP, WTAD_VKHM_DISPLAY, WTAD_VKHM_MAINTAIN, WRF_WTAD_CA, WRF_WTAD_CA1, WRF_WTAD_CA2, WRF_WTAD_CA3, WTR1, WTR2, WRF_WTR3, or reports ADDI_ANALYSIS_OF_CHANGES, ADDI_APPL_LOG, ADDI_ARCHIVE_READ, ADDI_ASSIGN_FM_TO_CUSTOMERS, ADDI_ASSIGN_FM_TO_SUPPLIERS, ADDI_IDOC_REQUEST, ADDI_MATNR_MASS_ASSIGN, ADDI_MONITOR, ADDI_ORDERS_CREATE, ADDI_PR_IDOC_REQUEST, ADDI_STWB_REQUEST, RWRF_ADDI_ANALYSIS_OF_CHANGES, RWRF_ADDI_IDOC_GENERATE are used.

This also can be checked via transaction SE16N. Enter table WTADDI and check whether there are any entries.

### 59.10S4TWL - Article Discontinuation

**Application Components:** IS-R, IS-R-BD-ART, IS-R-BD

**Related Notes:**

<table>
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<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368683</td>
<td>S4TWL - Article Discontinuation via transactions WSE*</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

At the end of the lifetime of an article, the discontinuation needs to be carried out to remove the relevant article segments.

**Business Process related information**
In SAP S/4HANA article discontinuation via transactions WSE1, WSE2, WSE3, WSE4, WSE5 is not available anymore.

Article discontinuation should be carried out via transaction WRF_DIS_SEL, and WRF_DIS_MON which are richer in functionality than WSE*.

**Required and Recommended Action(s)**

Switch to article discontinuation via transactions WRF_DIS_SEL, and WRF_DIS_MON.

**How to Determine Relevancy**

This Simplification Item is relevant if transactions WSE1, WSE2, WSE3, WSE4, WSE5 are used.

**Other Terms**

WSE1, WSE2, WSE3, WSE4, WSE5, WRF_DIS_SEL, and WRF_DIS_MON, SYSTEM_ABAP_ACCESS_DENIED

**59.11S4TWL - GDS simplified Inbound Price Catalog Interface**

Application Components: IS-R-BD-PCT-IN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2340264</td>
<td>S4TWL - Global Data Synchronization (GDS)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using GDS funcionality. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA GDS only works if the latest Open Catalog Interface (either enterprise service or IDoc PRICECATALOGUE) is used. IDoc PRICAT is not supported anymore. Also transactions PRICAT* (PRICAT, PRICATCUS1, PRICATCUS2, PRICATCUS3,
PRICATCUS6, PRICATCUS7, PRICATLOG, PRICATLOGOUT) are not supported anymore. Transactions W_SYNC or W_PRICAT_MAINTAIN need to be used.

**Business Process related information**

It is required that the latest Open Catalog Interface is used.

**Required and Recommended Action(s)**

Execute process as described in referenced note 2326511.

**How to Determine Relevancy**

This Simplification Item is relevant if GDS is used. This is the case if transactions PRICAT*, W_SYNC, W_PRICAT_MAINTAIN are used.

### 59.12S4TWL - Business Partner in Site Master

**Application Components:** LO-RFM, IS-R-BD-SIT, LO-MD-PL, LO-RFM-MD-SIT, LO-RFM-MD

**Related Notes:**

<table>
<thead>
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<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2339008</td>
<td>S4TWL - Business Partner for Sites</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using sites in your source system. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

With S/4HANA 1610 the Business Partner harmonization becomes available for the site. Sites can be migrated during the upgrade so they fulfill the new Business Partner paradigm in S/4HANA (every customer/supplier master record must have a Business Partner as leading entity; this was not possible on ERP for customers/vendors assigned to retail sites).

**Business Process related information**
The Business Partner will be the leading object.

Certain functionality of department store/shop concept is not available SAP S/4HANA. Transactions WRFCATEGORYSHOP, WRFCLOSESHOPS, WRFDELIVERYSITESHOPS, WRFREGIONSHOPS, WRFSHOPCAT, WRFSHOPDEP, WRF_ARC_DEPSHOP, WRF_TCHAIN_MIGR, WSHOPMIGR are not available.

**Required and Recommended Action(s)**

Follow instructions in the referenced note.

**How to Determine Relevancy**

This Simplification Item is relevant if retail sites are used. Relevance of this note can be checked via transaction SE16N. Enter table T001W and check whether there are entries with field VLFKZ (Plant Category) not equal blank.

For functionality not available anymore, please check whether transactions WRFCATEGORYSHOP, WRFCLOSESHOPS, WRFDELIVERYSITESHOPS, WRFREGIONSHOPS, WRFSHOPCAT, WRFSHOPDEP, WRF_ARC_DEPSHOP, WRF_TCHAIN_MIGR, WSHOPMIGR are used.

**59.13S4TWL - Logistical Variant**

Application Components: IS-R, IS-R-BD-ART, IS-R-BD

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368655</td>
<td>S4TWL - Logistical Variants</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**
For articles with several units of measures it was possible via logistical variants to a) manage the stocks of an article separately for different units of measure and b) plan requirements according to the unit of measure

**Business Process related information**

In SAP S/4HANA logistical variants are not available anymore.

**Required and Recommended Action(s)**

There is no equivalent functionality to logistical variants available in SAP S/4HANA prior to SAP S/4HANA 1809. Starting with SAP S/4HANA 1809 FPS01 there is the so called Logisical Product which offers functionality that addresses a similar business requirement, for functional scope see referenced note.

**How to Determine Relevancy**

This Simplification Item is relevant if logistical variants are used. This can be checked via transaction SE16N. Enter table MARA and check whether there are entries with field BFLME (Logistical Variant) not equal blank.

**59.14S4TWL - Article Hierarchy**

Application Components: IS-R-BD, IS-R, IS-R-BD-CDT

**Related Notes:**

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368680</td>
<td>S4TWL - Article Hierarchy via transactions MATGRP*</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The article hierarchy allows grouping of articles, using a customer-oriented structure. This means it is possible to map any hierarchical grouping of articles, in particular the consumer decision tree (CDT). The CDT is oriented around consumers and their needs
and, as far as possible, it reflects how, and according to what needs the consumer decides to make a purchase.

**Business Process related information**

In SAP S/4HANA article hierarchy maintenance via transactions MATGRP* is not available anymore.

Article hierarchies should be maintained via transactions WMATGRP* which are richer in functionality than transactions MATGRP*.

It is possible to migrate MATGRP Article Hierarchies to WMATGRP Article Hierarchies before doing the SAP S/4HANA system conversion, see referenced note 2536676.

**Required and Recommended Action(s)**

Switch to article hierarchies via transactions WMATGRP*.

In case you reuse ABAP objects of packetCL_MD in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if article hierarchy of this type is used. This is the case if transactions MATGRP01, MATGRP02, MATGRP03, MATGRP04, MATGRP05, MATGRP06, MATGRP07 are used.

This also can be checked via transaction SE16N. Enter table MATGRP_HIER and check whether there are any entries.

**59.15S4TWL - Market Basket Calculation**

Application Components:LO-MD, LO-MD-RPC

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368716</td>
<td>S4TWL - Market Basket Calculation</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

Market basket price calculation allowed changing sales prices for a group of articles and sites, based on sales and gross margin figures for the articles in the market-basket, while simulating the effects of these changes on the total gross revenue from the market.

Business Process related information

In SAP S/4HANA market basket calculation is not available anymore (as it is based on key figures from RIS (Retail Information System), which is not available anymore).

Required and Recommended Action(s)

There is no equivalent functionality to market basket calculation available in SAP S/4HANA. It is under evaluation whether there will be functionality in a future release, or as a consuming solution on SAP Customer Activity Repository to address the business requirement.

In case you reuse ABAP objects of Market Basket Calculation in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if market basket calculation is used. This is the case if transactions WKK1, WKK2, WWK3, WKK4 are used. This also can be checked via transaction SE16N. Enter table WWKK, or WWKP and check whether there are any entries.

59.16S4TWL - Merchandise and Assortment Planning (ERP based)

Application Components: LO-MAP

Related Notes:

<table>
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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368741</td>
<td>S4TWL - Merchandise and Assortment Planning (ERP based)</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Merchandise and assortment planning/category management offered planning functionalities, analysis and reporting options, for seasonal and non seasonal retailers,

Business Process related information

In SAP S/4HANA, merchandise and assortment planning/category management is not available anymore (software packages CM_MAP, WIS_PLAN, transaction CMMAP*, WXP*), as it is based on key figures from RIS (Retail Information System), which is not available anymore.

Please note that this is not the BW based solution SAP Merchandise and Assortment Planning (SAP MAP).

Strategic solutions are SAP Merchandise Planning for Retail, and SAP Assortment Planning for Retail, based on SAP Customer Activity Repository.

Required and Recommended Action(s)

Switch to strategic solutions SAP Merchandise Planning for Retail, and SAP Assortment Planning for Retail.

In case you reuse ABAP objects of packets CM_MAP or WIS_PLAN in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if Merchandise and Assortment Planning/category management is used.
This is the case if transactions WSUP, WXP*

(WXP0, WXP01, WXP02, WXP03, WXP04, WXP05, WXP06, WXP07, WXP08, WXP09, WXP1, WXP10, WXP11, WXP12, WXP13, WXP14, WXP15, WXP16, WXP17, WXP18, WXP19, WXP2, WXP20, WXP21, WXP22, WXP23, WXP24, WXP25, WXP26, WXP27, WXP28, WXP29, WXP3, WXP30, WXP31, WXP32, WXP33, WXP34, WXP35, WXP36, WXP37, WXP38, WXP39, WXP4, WXP40, WXP41, WXP42, WXP43, WXP44, WXP45, WXP46, WXP47, WXP48, WXP48_OLD, WXP49, WXP5, WXP51, WXP52, WXP53, WXP54, WXP55, WXP56, WXP57, WXP58, WXP6, WXP60, WXP61, WXP62, WXP63, WXP64, WXP65, WXP66,
WXP67, WXP68, WXP69, WXP7, WXP70, WXP74, WXP75, WXP8, WXP8A, WXP8B, WXC, WXPD, WXE, WXF, WXR, WXPN1, WXPN2, WXP IMG), or CMMAP* (CMMAP01, CMMAP02, CMMAP03, CMMAP04, CMMAP05) are used.

This also can be checked via transaction SE16N. Enter tables S202 S203 S204 S206 S207 S208 S209 S210 S211 S212 S214 S216 S217 S218 S219 and check whether there are any entries.

59.17S4TWL - Retail Method of Accounting

Application Components: IS-R-LG, IS-R, IS-R-LG-RMA

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2368736</td>
<td>S4TWL - Retail Method of Accounting</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The traditional retail method of accounting (RMA) is an averaging method that was practiced in the retail industry. Its philosophy is based on tracking and calculating inventory information that drives margins, compensation, reporting, buying, pricing, and other merchandizing decisions. It was developed before the advent of perpetual inventory systems.

Business Process related information

In SAP S/4HANA, retail method of accounting is not available anymore.

Functionality of eRMA (extended Retail Method of Accounting) is still available.

Required and Recommended Action(s)

Switch to eRMA.
In case you reuse ABAP objects of packets WRMA_* your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if Retail Method of Accounting is used. This is the case if transactions WRMA_1, WRMA_C1, WRMA_CHECK, WRMA_DATA_DISPLAY, WRMA_DIAG_R3, WRMA_M1, WRMA_M2, WRMA_NO_DOC, WRMA_VALUES, WRMA_WRART are used.

This also can be checked via transaction SE16N. Enter table WRMA_CLIENT and check whether there are any entries, and whether there are entries in table WRMA_PROFILE.

**59.18S4TWL - Fresh Item Procurement**

Application Components:MM-PUR-FIP, MM-PUR

Related Notes:

<table>
<thead>
<tr>
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<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368747</td>
<td>S4TWL - Fresh Item Procurement</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Fresh item procurement was used to procure special perishable products, which are usually characterized by a brief shelf life and are often offered by multiple vendors with restricted delivery capacity.

**Business Process related information**

In SAP S/4HANA, fresh item procurement is not available anymore.

**Required and Recommended Action(s)**

There is no equivalent functionality to fresh item procurement available in SAP S/4HANA. It is under evaluation whether there will be functionality in a future release.
In case you reuse ABAP objects of packets FIP_* in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if fresh item procurement is used. This is the case if transactions FIP_* (FIP_MD, FIP_SD, FIP_TD, FIP_CALL_MM03, FIP_CALL_MM43, FIP_CALL_rp_WL_DELE, FIP_CALL_rp_WL_DISP, FIP_CALL_wf30, FIP_CALL_WSUBST_CTAB, FIP_CALL_WSUBST_WL, FIP_RP_WORKLIST_DELE, FIP_RP_WORKLIST_DISP) are used.

**59.19S4TWL - Retail Ledger / Profit Center Analytics**

Application Components: FI-RL

**Related Notes:**

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<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368803</td>
<td>S4TWL - Retail Ledger / Profit Center Analytics</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The planning application "Profit Center Analytics in Retail: Store Planning" allowed planning the finances for stores in the retail sector. A store was portrayed as a profit center and a cost center. It was possible to perform both revenue planning and cost planning for the stores.

**Business Process related information**

In SAP S/4HANA, Retail Ledger / Profit Center Analytics is not available anymore.

**Required and Recommended Action(s)**
Strategic planning solutions are SAP Merchandise Planning for Retail, and SAP Assortment Planning for Retail.

In case you reuse ABAP objects of packet WRTL in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if profit center analytics is used. This is the case if transactions RETAIL_* (RETAIL_ACTIVATE, RETAIL_BLOCK, RETAIL_GB01, RETAIL_GCU1, RETAIL_GCU3, RETAIL_GCU6, RETAIL_GVTR, RETAIL_ITEMS, RETAIL_SUBPOST, RETAIL_TOTALS, RETAIL_VERSIONS, RTDE) are used.

This also can be checked via transaction SE16N. Enter table PCRRETAILA and check whether there are any entries.

**59.20S4TWL - Goods Receipt Capacity Check**

Application Components: MM-PUR, MM-PUR-OPT-GRC, MM-PUR-OPT

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368785</td>
<td>S4TWL - Goods Receipt Capacity Check</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Goods receipt capacity was used for checking the schedule and the delivery dates of a vendor. Thus, allowing to distribute the load of the goods receipt evenly, avoiding bottlenecks during inbound delivery.

**Business Process related information**

In SAP S/4HANA, goods receipt capacity check is not available anymore.
Required and Recommended Action(s)

There is no equivalent functionality to goods receipt capacity check available in SAP S/4HANA.

In case you reuse ABAP objects of packet WGRC in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if goods receipt capacity check is used. This is the case if transactions WGRC1, WGRC2, WGRC3, WGRC4, WGRC5, WGRC6 are used. This also can be checked via transaction SE16N. Enter table WGRC_ACT, WGRC_ACT_PO and check whether there are any entries.

59.21S4TWL - Online Store

Application Components: LO-MD-PC, LO-MD

Related Notes:

<table>
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<tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2368835</td>
<td>S4TWL - Online Store (IAC)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The online store was a solution for electronic commerce. The online store could be configured for consumer-to-business and for business-to-business use.

Business Process related information

In SAP S/4HANA, online store functionality is not available anymore.

Required and Recommended Action(s)
SAP Hybris Commerce is the strategic solution for omnichannel commerce.

In case you reuse ABAP objects of packet WWMB in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if online store is used. This is the case if transactions WW10, WW20, WW30, WW31 are used.

### 59.22S4TWL - Generic Article Harmonization

Application Components: LO-RFM, LO-RFM-MD-ART, LO-RFM-MD

Related Notes:

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<tr>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2339010</td>
<td>S4TWL - Generic Article Harmonization</td>
</tr>
</tbody>
</table>

**Symptom**

You want to convert your SAP ERP for Retail/Fashion system to an SAP S/4HANA system and you want to use existing generic articles in SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

The way of storing characteristic valuations of variants of a generic article and a configurable material were different.

**Solution**

**Description**

With S/4HANA, generic article harmonization with configurable materials becomes available. With that a generic article is assigned to a configuration class and the variant-creating characteristics for that generic article are taken from that configuration class. The valuation of the variant-creating characteristics of the variants is stored within the configuration storage (IBase). For this reason, the existing generic articles, the variant-creating characteristics and the variants need to be migrated during the upgrade.
Business Process related information

As the variant-creating characteristics are no longer linked to a merchandise category or characteristics profile, but to configuration classes, a re-classification of the merchandise category(characteristics profile of a generic article is no longer restricted by the assignment of variant-creating characteristics to merchandise categories/characteristics profiles.

As a consequence of the data model change the following functionality is not available anymore:

- Assigning a single article to a generic article via report MMASSIGNMAT, see also attached note 2772474
- Transforming a variant of a generic article to a single article via report MMUNHINGEVAR
- Characteristic value change of a variant of a generic article via report MMCHANGEVAR
- Convert Material Master data to Article Master data via report RMMMMPOI (transaction WRST); starting with SAP S/4HANA 1909 report RFM_CONV_MATERIAL_TO_ARTICLE is available which has similar functionality, see note 2843173.

Required and Recommended Action(s)

The complete data migration process is divided into three phases: manual started pre-migration activities, automated migration processes during downtime, and manual started post-migration activities.

The 1st phase includes the required manual execution of Pre-Migration reports in the SAP ERP for Retail system in all clients. Please implement the SAP Note 2331707 to get the pre-migration reports.

The 2nd phase includes the automatic execution of another migration report which will be executed by the SUM tool during the downtime.

The 3rd and the last phase includes the recommended manual execution of a Post-Migration report in the converted SAP S/4HANA system in all clients. Please refer to SAP Note 2350650 for more details.

How to Determine Relevancy

This Simplification Item is relevant if generic articles and variants are used. This can be checked via transaction SE16N. Enter table MARA and check whether there are entries with field ATTYP (Material Category) 01 (generic article) or 02 (variant).
Other Terms

SAP S/4HANA

59.23S4TWL - Retail Labeling

Application Components: LO-ADM

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368870</td>
<td>S4TWL - Retail Labeling</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

It was possible to trigger label printing via retail labeling.

Business Process related information

In SAP S/4HANA, retail labeling (software package WETI) via transactions WEBU, WENA, WESO is not available anymore

Required and Recommended Action(s)

The Fiori app Print Lables should be used to trigger label printing.

In case you reuse ABAP objects of packet WETI in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if labeling is used.
This is the case if transactions WEBU, WENA, WESO are used.
59.24S4TWL - Seasonal Procurement

Application Components: IS-R, IS-R-PUR-POF, IS-R-PUR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2368913</td>
<td>S4TWL - Seasonal Procurement</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Seasonal procurement covers purchasing processes that are specially designed to suit the requirements of seasonal procurement of retail goods, for example, from the area of fashion.

Business Process related information

In SAP S/4HANA, seasonal procurement is not available anymore.

Software packages WRF_APC, WRF_AT_GENERATE, WRF_PRC_CON_APPL, WRF_PRC_CTR_APPL, WRF_PRC_OTB_APPL, WRF_PRC_POHF_APPL, WRF_SEAS.

Transactions: WRFAPC*, WA10, WCOC*, WPCTR*, WOTB*, WPOHF*, WRFROCAT, WOOS.

Required and Recommended Action(s)

Processes for fashion retailers that are available already or will be released in the future should be used for seasonal procurement. Planning solutions SAP Merchandising Planning for Retail, and SAP Assortment Planning for Retail should be considered as well.

In case you reuse ABAP objects of packets WRF_AT_GENERATE, WRF_PRC_BASIC_APPL, WRF_PRC_BASIC_DDIC, WRF_PRC_CON_APPL, WRF_PRC_CON_DDIC, WRF_PRC_EM_AI, WRF_PRC_MAIN,
WRF_PRC_OTB_APPL, WRF_PRC_OTB_DDIC, WRF_PRC_POHF_APPL,
WRF_PRC_POHF_APPL_SFWS_SC, WRF_PRC_POHF_DDIC,
WRF_PRC_POHF_DDIC_SFWS_UI_VS, WRF_SEAS in your custom code, please see
attached note

How to Determine Relevancy

This Simplification Item is relevant if seasonal procurement is used.
This is the case if transactions, WRFAPC01, WRFAPC02, WRFAPC03, WRFAPC11,
WRFAPC12, WRFAPC14, WRFAPC15, WRFAPC16, WRFAPC17, WRFAPC22,
WRFAPC23, WRFAPC24, WRFAPC25, WRFAPC26, WRFAPC27, WRFAPC30,
WRFAPC35, WRFAPC36, WRFAPC37, WRFAPC40, WA10, WCOC, WCOCS,
WOTB1, WOTB2, WOTB3, WOTB4, WOTB6, WPCTRA, WPCTRQ, WPOHF1, WPOHF2C, WPOHF2D, WPOHF2DS, WPOHF2X, WPOHF2XS,
WPOHF3C, WPOHF3D, WPOHF3DS, WPOHF3X, WPOHF4C, WPOHF4D, WPOHF4DS, WPOHF4X, WPOHF4XS, WPOHF7, WPOHF8,
WRFROCAT, WOOS are used.

This also can be checked via transaction SE16N. Enter table WRF_APC_PLH and check
whether there are any entries.
This also can be checked via transaction SE16N. Enter table EKKO and check whether
there are entries with field POHF_TYPE (Seasonal Purchase Order Processing) is not
equal blank.

59.25S4TWL - Replenishment

Application Components: IS-R-PUR-RP, IS-R-PUR, IS-R

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370106</td>
<td>S4TWL - Retail Replenishment</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA Retail for merchandise
management or SAP S/4HANA for fashion and vertical business. The following SAP
S/4HANA Transition Worklist item is applicable in this case.

Solution

Description
Replenishment calculates the procurement dates and quantities for articles per store, based on various parameters (e.g. on-hand inventory, forecasted demand, shelf space), and can also create the resulting procurement documents.

**Business Process related information**

A) In SAP S/4HANA, some retail specific replenishment functionality (main transaction WRP1) and multi-step replenishment (transactions WRFE, WRSO, WRSR, ...) are not available anymore.

B) Generic Materials Requirements Planning (MRP) functionality is available (main transaction MD01). For details see referenced note.

MRP Live (transaction MD01N) is available. Certain retail specifics available in SAP ERP in transactions MD01 are not available in MRP Live (neither in SAP ERP nor SAP S/4HANA):
- Determination of internal supply source (e.g. distribution center as supply source for store)
- Considering the specifics of structured articles (such as display, sales sets, prepack)
- Promotion check

**Required and Recommended Action(s)**

A) Rapid Replenishment (transaction WRP1R) covers a similar scope, but is superior from a performance perspective.

B) Use "classic" MRP (transaction MD01)

**How to Determine Relevancy**

This Simplification Item is relevant if replenishment is used in SAP Merchandising for Retail or SAP Fashion Management Solution. This is the case if transactions WR30, WR31, WR94, WR95, WRP1, WRFE, WRSO, WRSR, are used.

### 59.26S4TWL - Retail Information System

Application Components: IS-R-IS, IS-R-IS-RIS, IS-R

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370131</td>
<td>S4TWL - Retail Information System (RIS) and Category Management Workflow</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The information systems used to plan, control, and monitor business events at different stages in the decision-making process. Tools were available in Customizing to allow a self-defined information system to be created and tailored to specific requirements.

Business Process related information

In SAP S/4HANA, RIS functionality and Category Management Workflow are not available anymore.

Required and Recommended Action(s)

RIS (Retail Information System) technology is not available anymore.

To cover reporting requirements usage of SAP BW or SAP BW/4HANA is recommended.

There is content for Retail for SAP BW, which however does not cover an identical scope as RIS.

There is no retail specific content for SAP BW/4HANA. Thus, content need to be created or adjusted part of the implementation project.

To cover operational reporting requirements CDS (Core Data Services) technology should be used. It is planned to offer retail specific content in a future release. Till then, content need to be created part of the implementation project.

In case you reuse ABAP objects of packets WRB or WRBA in your custom code, please see attached note.

Information structure S160 is used for perishables procurement. In SAP S/4HANA, perishables procurement is not available from release SAP S/4HANA 1610 till 1909. Starting with SAP S/4HANA 2020 perishables procurement is available again. Thus, information structure S160 can be used from SAP S/4HANA 2020. It is planned to substitute functionality of information structure S160 by CDS technology in a future release.

Coding for retail specific enhancements is controlled via settings in table TMCW. Please
deactivate all settings, or delete the entry in table TMCW. Active settings can lead to reduction in performance or even errors. You can maintain entries in table TMCW through transaction SM30 view V_TMCW.

**How to Determine Relevancy**

This Simplification Item is relevant if RIS is used. This can be checked via transaction SE16N. Enter table S077 S078 S079 S080 S081 S082 S083 S084 S085 S086 S087 S105 S106 S107 S108 S110 S117 S119 S120 S121 S122 S123 S124 S160 S200 S202 S203 S204 S205 S206 S207 S208 S209 S210 S211 S212 S214 S216 S217 S218 S219 S270 S271 S272 S273 S274 S275 S276 S277 S278 S279 and check whether there are any entries.

Custom specific RIS structures can be detected via transaction SE16N for table TMC4 with TMC4-MCAPP = 40 and TMC4-KBTCH is not initial (i.e. = 1, 2, 3, D). RIS structure S160 may be active as it is used for Perishable Procurement, see note 2368739.

If you have RIS structures with activated updating, and want to convert from ECC to S/4HANA, please deactivate updating prior to the conversion via transaction MCH6.

Relevant transaction are CMPRO, MC$!, MC$!, MCG2, MCG3, MCGC, MCGD, MCGE, MCGF, MCGG, MCGH, MCGJ, MCGK, MCGL, MCH+, MCH0, MCH1, MCH2, MCH3, MCH4, MCH7, MCH8, MCH9, MCH.; MCHA, MCHB, MCHC, MCHD, MCHG, MCHP, MCHS, MCHV, MCHY, MCHZ, MCH_, MCM%, MCMX, MCMY, MCMZ, MCWIS, MCWRP, T108, T109, T110, T111, T112, T113, T114, T115, TR02, WCM1, WCM2, WCM3, WCM4, WCMA, WCMB, WCMC, WCMCP, WCMD, WCE, WDKR.

In case you reuse ABAP objects of packets CM_WF, MCW, WVKP_RRM, WWGR in your custom code, please see attached note.

This Simplification Item is relevant if Category Management Workflow is used. This also can be checked via transaction SE16N. Enter table WCMP and check whether there are any entries.

**Other Terms**

RIS, Retail Information System, LIS, Logistics Information System, BW/4HANA, Retail
59.27S4TWL - SAP Retail Store

Application Components: LO-SRS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370133</td>
<td>S4TWL - SAP Retail Store</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

SAP Retail Store and SAP In-Store Merchandise and Inventory Management Mobile (Java) enhanced and optimized tools available for executing store-oriented processes by providing store associates with specially developed store management functions. It offered a web-based user interface that was tailored specifically to the requirements of stores.

Business Process related information

In SAP S/4HANA, SAP Retail Store and SAP In-Store MIM Mobile (Java) are not available anymore.

Required and Recommended Action(s)

Simplified user interfaces to support store associates/managers are available as Fiori apps or as part of In-Store MIM (Web Dynpro ABAP).

Because of the Business Partner harmonization the WebDynpro WDA_WSSD_CUST cannot be used in releases prior to SAP S/4HANA 2022, only displaying an existing customer is possible. The respective BAPIs BAPI_CUSTOMER_CREATEFROMDATA1 and BAPI_CUSTOMER_CHANGEFROMDATA1 are not available as well. The WebDynpro app has been adjusted for SAP S/4HANA 2022 and can be used gain.

As an alternative, customer master data can be maintained through the Fiori app Manage Customer Master Data (F0850A). If you need to adjust the app to your specific needs, consulting note 2655797 describes how this can be achieved.
It is planned to deprecate the WebDynpro app for sales order maintenance (LO_OIF_MAIN_APP, LO_OIF_SDOC_APPL) with SAP S/4HANA 2023. You need to switch to suitable Fiori apps for sales order maintenance by then.

**How to Determine Relevancy**

This Simplification Item is relevant if SAP Retail Store or SAP In-Store MIM Mobile (Java) is used.

This is the case if transactions

- RFAF
- RME2N
- SRS_GM_SH
- SW_WW10
- WCSO
- WCSO_ENTRY
- WCSOC
- WCSOD
- WCSOS
- WCU2
- WOSCR_CBL
- WOSCR_EXI
- WOSCR_SLOGIN
- WOSZ_MAT_SHOW
- WOSZ_PRINTER
- WSAK
- WSAM_ENTRY
- WSAM_SHMAE
- WSAM_SHMAE
- WSAO_CYCLE
- WSAO_LKPLC
- WSAU
- WSGM
- WSHT
- WSII_ENTRY
- WSPO_ENTRY
- WSSW
- WSTA
- WSTA_R_DLV_DISP
- WSTA_R_PDC_DATA
- WSTA_R_PDC_STRUCT
- WSTE_R_PDC_CUSTOMIZ
- WSTE_R_PDC_DOCUMENT
- WSTE_R_PDC_GR
- WSTE

- WSTE_NEW
- WSTED
- WSTI
- WSTI_DOC
- WSTI_MON
- WSTI_R_PDC_PI
- WSTL
- WSTP
- WSTSA
- WSTU
- WSTV
- WSTV_R_PDC_CUST
- WSTV_R_PDC_DATA
- WSTV_R_PDC_MATDATA
- WSVD_ENTRY
- WSVD_SAPGUI
- WSVD_VNDR_WLIST
- WTAD_SRS
- WTAD_STWB
- WebDynpro WDA_WSSD_CUST /sap/bc/webdynpro/sap/WDA_WSSD_CUST
- WebDynpro LO_OIF_MAIN_APP /sap/bc/webdynpro/sap/LO_OIF_MAIN_APP
- WebDynpro LO_OIF_SDOC_APPL /sap/bc/webdynpro/sap/LO_OIF_SDOC_APPL

are used. This is not a complete list.

59.28S4TWL - Retail iViews

Application Components: MM-PUR

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370183</td>
<td>S4TWL - Retail Buying iViews</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

An iView (integrated view) was a logical portal content building block representing a visual application or part thereof. There were some iViews to support retail buying.

Business Process related information

In SAP S/4HANA, retail buying iViews are not available anymore. Transactions WRBDL, WRBDL2 are not available anymore.

Required and Recommended Action(s)

In SAP S/4HANA there are alternatives to display the information. For stock information there is transaction RWBE or the Fiori apps for inventory management. For open purchase orders there are transaction ME2L, ME2M, ME2N or the purchase order Fiori app.

In case you reuse ABAP objects of packet WRB or WRBA in your customer code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if iViews for retail buying are used. This is can be observed if functions modules WRB_RFC_GET_OPEN_PO_OVERVIEW, WRB_RFC_GET_VENDOR_OPEN_PO, WRB_RFC_GET_OOS_OVERVIEW, WRB_RFC_VENDOR_GET_OUTOFSTOCKS, WRB_RFC_VENDOR_GET_CONTACTDATA are called, or transactions WRBDL, WRBDL2, or report RWRBADSL is executed

59.29S4TWL - Prepack Allocation Planning

Application Components: IS-R-BD, IS-R, IS-R-BD-ART

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370151</td>
<td>S4TWL - Prepack Allocation Planning</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Prepacks are integrated into the allocation planning process. Via prepack allocation planning it was possible to define prepacks for a generic article using existing quota scales (size curves) or by manually entering size distributions. Allocation tables and vendor purchase orders could be generated and kept synchronized.

Business Process related information

In SAP S/4HANA, prepack allocation planning is not available anymore.

Required and Recommended Action(s)

There is no equivalent functionality to prepack allocation planning available in SAP S/4HANA.

In case you reuse ABAP objects of packet WSTRN in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if prepack allocation planning is used. This is the case if transactions WSTN11, WSTN13, WSTN14, WSTN15 are used. This also can be checked via transaction SE16N. Enter table WSTN_PP_HEADER and check whether there are any entries.

59.30S4TWL - Assortment List

Application Components: IS-R-IFC-AL, IS-R, IS-R-IFC

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370146</td>
<td>S4TWL - Assortment List</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Assortment List can be used, among other use cases, to send article information to POS, or store merchandise management solutions. It comprises all the article the respective store carries. Information per store includes short text, GTIN, unit of measure, sales prices etc. It is possible to send a manual, initial or a delta version of the assortment list.

Business Process related information

In SAP S/4HANA, assortment list functionality via transaction WBBA, WDBI, WDBI_ALV, WDBM, WDBM_ALV, WDBU, WDBU_ALV is not available anymore.

Required and Recommended Action(s)

Assortment List HPR (High Performance Retailing) functionality via transaction WDBI_HPR, WDBM_HPR, WDBU_HPR. WDBI_HPR_ALV, WDBM_HPR_ALV, WDBU_HPR_ALV is still available in SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if assortment list is used. This is the case if transactions WBBA, WDBI, WDBI_ALV, WDBM, WDBM_ALV, WDBU, WDBU_ALV are used.

59.31S4TWL - In-store food production integration

Application Components: LO-MD-FPD, LO-MD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370148</td>
<td>S4TWL - In-store food production integration</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In the retail grocery industry it can be relevant to manage processes involving a store's fresh items. The in-store food production integration enabled integration to an external In-Store Food Production (ISFP) software solution.

Business Process related information

In SAP S/4HANA, in-store food production integration is not available anymore.

Required and Recommended Action(s)

There are other communication scenarios in SAP S/4HANA to allow integration with non-SAP solutions.

In case you reuse ABAP objects of packets WSFP_* in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if in-store food production integration is used. This is the case if enterprise services are used.

- StoreERPReplicationBulkRequest_Out
- StoreGroupERPReplicationBulkRequest_Out
- SupplierERPReplicationBulkRequest_Out
- PhysicalInventoryCountERPRequest_Out
- PhysicalInventoryCountERPConfirmation_In
- GoodsMovementERPCreateRequest_In
- GoodsMovementERPNotification_Out

are used.
59.32S4TWL - PRICAT Outbound

Application Components: IS-R-BD, IS-R-BD-PCT, IS-R

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370164</td>
<td>S4TWL - PRICAT Outbound</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

PRICAT outbound was used to send material master data and price information to business partners.

**Business Process related information**

In SAP S/4HANA, PRICAT outbound is not available anymore.

**Required and Recommended Action(s)**

There are other communication scenarios in SAP S/4HANA to send article and price information.

The alternatives include e.g.:

- Article data combined with prices
  - WES SOAP Service ReplicateMerchandiseDemandManagement
  - DRF SOAP Service ProductMerchandiseViewReplication (available with SAP S/4HANA 1909)
  - Assortment List IDoc
- Article data
  - DRF SOAP Service ProductMDMBulkReplicate (available with SAP S/4HANA 2020)
  - ARTMAS IDoc
- Prices
  - DRF SOAP Service SalesPricingConditionRecord (available with SAP S/4HANA 1909)
  - COND_A IDoc
In case you reuse ABAP objects of packet VPRI in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if PRICAT outbound is used. This is the case if transactions VPRE, VPRICAT, WEB_PRICAT, WPRI, WPRI6, WPRI7, PRICREAT are used. This also can be checked via transaction SE16N. Enter table PRICAT_K001 and check whether there are any entries with field PRICAT_K001-PRIOUTSTATE not equal blank.

### 59.33S4TWL - Retail Business Function Harmonization

**Application Components:** LO-RFM-SWT, LO-RFM

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2339317</td>
<td>S4TWL - Retail Business Function Harmonization</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA the structure of the Retail Business Functions was reorganized and simplified so that most of the Retail functions and features can be switched on by the Enterprise Business Function ISR_RETAILSYSTEM.

**Business Process related information**

Business processes will not be affected directly. For details see referenced note.

**Required and Recommended Action(s)**

For details see referenced note 2304479 and 2303155.
In case you have activated one of the following Business Functions, but don't use the functionality, please, create an incident, and we will release the respective pilot note for you:
- ISR_RETAIL_INDIA_LOC
- ISR_RET_PERISH_PROCUREMENT
- ISR_RETAIL_MAP_IF
- ISR_RETAIL_MAP_IF2
- ISR_RETAIL_INSTORE_FPD
- ISR_RETAIL_RMA
- ISR_RETAIL_RMA_2
- ISR_RETAIL_RMA_3

How to Determine Relevancy

This Simplification Item is relevant if you have activated the Business Function Set ISR_RETAIL. This can be checked via transaction SFW5.

59.34S4TWL - Retail Obsolete Transactions

Application Components: IS-R

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370655</td>
<td>S4TWL - Retail Obsolete Transactions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With the installation of the SAP S/4HANA, certain transactions will not be available anymore.

Business Process related information

Transactions which are not available anymore in SAP S/4HANA are listed below.

Required and Recommended Action(s)
<table>
<thead>
<tr>
<th>Obsolete Transaction</th>
<th>Description of Transaction</th>
<th>Alternative Transaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLWA</td>
<td>Create Material Group (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>CLWB</td>
<td>Change Material Group (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>CLWC</td>
<td>Display Material Group (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>CLWD</td>
<td>Delete Material Group (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>CLWJ</td>
<td>Change Generic Article (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>CLWK</td>
<td>Display Generic Article (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>CLWL</td>
<td>Delete Generic Article (MMS)</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>FSH_MD04_DEBUG</td>
<td>FM : Stock Requirement List : Debug</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>FSH_SDM_AGG</td>
<td>FM : Stock Demand Mapping Aggregator</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>RDMBBYCOPY</td>
<td>Copy Bonus Buy</td>
<td>RDMBBYCOPY2</td>
</tr>
<tr>
<td>RDMBBYDELE</td>
<td>Delete Bonus Buy</td>
<td>RDMBBYDELE2</td>
</tr>
<tr>
<td>WTRA1</td>
<td>Maintain Runtime Customizing Table</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WTRA2</td>
<td>Runtime Measurement: Delete Logs</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WTRA3</td>
<td>Runtime Measurement: Display Logs</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WA05</td>
<td>Alloc Tbl FDG: Generate POs</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WA06</td>
<td>Alloc Tbl FDG: Generate Deliveries</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WA07</td>
<td>Alloc Tbl FDG: Generate Whse Orders</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WA12</td>
<td>Create Reminders/Accept Plnd Qties</td>
<td>was never released</td>
</tr>
<tr>
<td>WA15A</td>
<td>Mess.Deter., Alloc Tbl: Creat.Cond.R</td>
<td>WA/A</td>
</tr>
<tr>
<td>WA15B</td>
<td>Mess.Deter., Alloc Tbl: Chng Cond.Rec</td>
<td>WA/B</td>
</tr>
<tr>
<td>WA15C</td>
<td>Mess.Deter, Alloc Tbl: Displ Cond.Rec</td>
<td>WA/C</td>
</tr>
<tr>
<td>WA40</td>
<td>Adjust Alloc Tbl After Entering GR</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WA50</td>
<td>Generate Allocation Rule</td>
<td>obsolete because of deprecated RIS</td>
</tr>
<tr>
<td>WA53</td>
<td>Create Selection Variants</td>
<td>obsolete because of deprecated RIS</td>
</tr>
<tr>
<td>WA54</td>
<td>Generate Alloc Rule / Test RIS-L</td>
<td>obsolete because of deprecated RIS</td>
</tr>
<tr>
<td>Code</td>
<td>Description</td>
<td>Notes</td>
</tr>
<tr>
<td>-------</td>
<td>--------------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td>WA60</td>
<td>Create Selection Variant for PO</td>
<td>obsolete because of deprecated RIS</td>
</tr>
<tr>
<td>WC11</td>
<td>Batch Changes, Assortments</td>
<td>batch transaction of WSM4</td>
</tr>
<tr>
<td>WC21</td>
<td>Batch Reorg Data in LIS</td>
<td>batch transaction of of deprecated RIS</td>
</tr>
<tr>
<td>WC25</td>
<td>Batch Assortment List/Shelf-Edge Lab</td>
<td>batch transaction of obsolete WDBU</td>
</tr>
<tr>
<td>WC26</td>
<td>Batch Forecast</td>
<td>batch transaction of MP38</td>
</tr>
<tr>
<td>WC27</td>
<td>Batch Requirements Planning per Plant</td>
<td>batch transaction of MD01</td>
</tr>
<tr>
<td>WC33</td>
<td>Assortment List: Initial. &amp; FullVers</td>
<td>batch transaction of obsolete WDBI</td>
</tr>
<tr>
<td>WC41</td>
<td>Batch worklist for doc. index</td>
<td>batch transaction of MEI4</td>
</tr>
<tr>
<td>WCMP_MASS</td>
<td>Mass Complaints Processing</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WCMP_PROCESSING</td>
<td>Complaints Processing</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WCMP_RESULT</td>
<td>Results Log Mass Complaints Proc.</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WER_RULE_PROC_TEST</td>
<td>Test program for processing rules</td>
<td>test transaction</td>
</tr>
<tr>
<td>WB07</td>
<td>Change plant/customer assignment</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WB08</td>
<td>Change plant/vendor assignment</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WB30</td>
<td>Mass maintenance MG to plant</td>
<td>WB30N</td>
</tr>
<tr>
<td>WB35</td>
<td>Layout overview</td>
<td>obsolete because of deprecated RIS</td>
</tr>
<tr>
<td>WBTE</td>
<td>Export plant data (file transfer)</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WBTI</td>
<td>Import plants (file transfer)</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WBTIMEX</td>
<td>Site Master Transport</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WBTIMEX_CUST</td>
<td>Customize Site Master Transport</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WDH1</td>
<td>Maintain plant hierarchy (SD)</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WDH2</td>
<td>Display customer hierarchy (SD)</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WOG3</td>
<td>Plant groups</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WF10A</td>
<td>Collective PO Without Tabstrips</td>
<td>WF10</td>
</tr>
<tr>
<td>WF50A</td>
<td>Adjust Distribution</td>
<td>WF50</td>
</tr>
<tr>
<td>WF80_DEL</td>
<td>Display Delivery Generation Logs</td>
<td>WF80</td>
</tr>
<tr>
<td>WF90_DEL</td>
<td>Delete Delivery Generation Logs</td>
<td>WF90</td>
</tr>
<tr>
<td>WLB3</td>
<td>Autom. opt. PO-based load building</td>
<td>WLB13</td>
</tr>
<tr>
<td>WGDS_CONFIRM</td>
<td>Send confirmation</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WGDS_CONFIRM_MANAGER</td>
<td>Confirmation manager</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>ARTE</td>
<td>Replace Articles in Layout Modules</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WLAM</td>
<td>Layout Maintenance</td>
<td>WLLWBN</td>
</tr>
<tr>
<td>WLMM</td>
<td>Layout Module Maintenance</td>
<td>WLLWBN</td>
</tr>
<tr>
<td>WLMV</td>
<td>Maintenance of Layout Module Version</td>
<td>WLLWBN</td>
</tr>
<tr>
<td>WLWB</td>
<td>Layout Workbench</td>
<td>WLLWBN</td>
</tr>
<tr>
<td>SAP Code</td>
<td>Description</td>
<td>SAP Code</td>
</tr>
<tr>
<td>---------</td>
<td>-------------</td>
<td>---------</td>
</tr>
<tr>
<td>WPER_ALV</td>
<td>POS Interface Monitor</td>
<td>WPER</td>
</tr>
<tr>
<td>WPLG</td>
<td>Space Management</td>
<td>WPLGN</td>
</tr>
<tr>
<td>WRFMATCHARVAL</td>
<td>Char. Value Change to Variants</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WRF_WSOA1</td>
<td>Create Assortments</td>
<td>WSOA1</td>
</tr>
<tr>
<td>WRF_WSOA2</td>
<td>Change Assortments</td>
<td>WSOA2</td>
</tr>
<tr>
<td>WRF_WSOA3</td>
<td>Display Assortments</td>
<td>WSOA3</td>
</tr>
<tr>
<td>WRF_WSOA4</td>
<td>Delete Assortment</td>
<td>WSOA4</td>
</tr>
<tr>
<td>W_PRICAT_ASSIGN_001</td>
<td>Assignment ILN Vendor Pur. Group</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>W_PRICAT_ASSIGN_003</td>
<td>Assignment SAP Mat. Gr. - Purch. Gr.</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>W_PRICAT_SEL_CREATE</td>
<td>Maintain Price Catalog</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WRF_PRICAT_LOG1</td>
<td>Log for Price Catalog</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSFP_LOG_ALL_IN</td>
<td>Ind Processing, All Logs</td>
<td>WESLOG</td>
</tr>
<tr>
<td>WSFP_LOG_ALL_OUT</td>
<td>All Logs</td>
<td>WESLOG</td>
</tr>
<tr>
<td>WSFP_LOG_CHG_OUT</td>
<td>Change Messages Log</td>
<td>WESLOG</td>
</tr>
<tr>
<td>WSFP_LOG_INIT_OUT</td>
<td>Initial Data Transfer</td>
<td>WESLOG</td>
</tr>
<tr>
<td>WSFP_LOG_INTERNAL</td>
<td>For Internal Use Only</td>
<td>WESLOG</td>
</tr>
<tr>
<td>WSFP_LOG_MAN_OUT</td>
<td>Manual Selection</td>
<td>WESLOG</td>
</tr>
<tr>
<td>WSFP_TRANSFER</td>
<td>Master Data Transfer</td>
<td>WESOUT</td>
</tr>
<tr>
<td>WLAN</td>
<td>Listing Conditions for Layout Module</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSK3</td>
<td>Assortment copy, batch input</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSL3</td>
<td>Material listed in plant before?</td>
<td>WSL11</td>
</tr>
<tr>
<td>WSL4</td>
<td>Analyze material in module</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSL5</td>
<td>Modules in plant</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSL6</td>
<td>Assortment structure, Plants</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSL7</td>
<td>Vendor material list</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSLA</td>
<td>Assortment Users per Assortment</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSLB</td>
<td>Assortment per Assortment User</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>WSLG</td>
<td>Compare promotion POs - sales orders</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WSM4</td>
<td>Relist after ch. plant/ mat. grp mas</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WSM6</td>
<td>Delete Individual Listing, Material</td>
<td>WSE6</td>
</tr>
<tr>
<td>WSM7</td>
<td>Delete Individual Listing, Material</td>
<td>WSE6</td>
</tr>
<tr>
<td>WSM8</td>
<td>Setup asst.owner assortment as WRF6</td>
<td>WSM3</td>
</tr>
<tr>
<td>WSOA5</td>
<td>Assign assortment to customer</td>
<td>WSOA2</td>
</tr>
<tr>
<td>WSOE</td>
<td>Assign material groups</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>WSP6</td>
<td>Delete ind. listing, mat. - plant</td>
<td>WSE6</td>
</tr>
<tr>
<td>WSOSDISPLAY</td>
<td>Display Possible Sources of Supply</td>
<td>not relevant anymore</td>
</tr>
<tr>
<td>MGW0</td>
<td>Create Components for Set Material</td>
<td>was already obsolete in SAP ERP</td>
</tr>
<tr>
<td>MGW1</td>
<td>Display Components for Set Material</td>
<td>was already obsolete in SAP ERP</td>
</tr>
</tbody>
</table>
### How to Determine Relevancy

This Simplification Item is relevant if any of the above listed transactions is used.

### 59.35S4TWL - Value and Quota Scales

Application Components: IS-R, IS-R-BD-MC, IS-R-BD

Related Notes:
### Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 2340247 | S4TWL - Value and Quota Scales

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

For variants of a generic article it is possible to define ratios for the respective variants via value and quota scales. Those ratios can be used in purchase orders, or allocation tables to propose default quantities for procurement.

**Business Process related information**

In SAP S/4HANA value and quota scales are not available anymore.

Distribution curve is the strategic solution with similar semantics but richer in functionality than value and quota scales.

**Required and Recommended Action(s)**

Switch to strategic functionality of distribution curves.

In case you reuse ABAP objects of packet WMOD in your custom code, please see attached note.

**How to Determine Relevancy**

This Simplification Item is relevant if value and quota scales are used. This is the case if transactions WC01, WQ01, WQ02, WQ03, WQ04, WQ05, WQ11, WQ12, WQ13, WQ14, WQ15, WQ21, WVAL are used. This also can be checked via transaction SE16N. Enter table WMQK, or WMWK and check whether there are any entries.
59.36S4TWL - AIN

Application Components: XX-CSC, XX-CSC-IN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2370138</td>
<td>S4TWL - AIN (India Margin Protection) (Localization for India)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Via AIN the following functions could be performed for India:

- Control the price fluctuations and protect the margin agreed between the buyer and the vendor during the procurement process.
- Update the MRP (Maximum Retail Price) of an article in the purchase order (PO) and the article master if there is a change in the MRP when you receive the goods from the vendor.

Business Process related information

In SAP S/4HANA, AIN (India Margin Protection) is not available anymore.

Required and Recommended Action(s)

There is no equivalent functionality to AIN available in SAP S/4HANA.

In case you reuse ABAP objects of packet J1IRET inn your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if AIN is used. This is the case if transactions J1IR01 J1IR02 J1IR03 J1IR10 J1IR20 J1IRAIN01 J1IRAIN02 J1IRAIN03 J1IRAIN10 J1IRAIN20 are used.
This also can be checked via transaction SE16N. Enter table J_1IRAINHDR and check whether there are any entries.

---

**59.37S4TWL - SAP Smart Business for Retail Promotion Execution**

Application Components: LO-MD, LO-MD-PR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2377767</td>
<td>S4TWL - SAP Smart Business for Retail Promotion Execution</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

SAP Smart Business for Retail Promotion Execution offers insight-to-action capabilities based on real-time overviews to mitigate exceptions for promotion execution.

**Business Process related information**

In SAP S/4HANA, SAP Smart Business for Retail Promotion Execution (based on SAP HANA Live VDM (Virtual Data Model)) is not available.

**Required and Recommended Action(s)**

There is no equivalent functionality to SAP Smart Business for Retail Promotion Execution available in SAP S/4HANA. It is under evaluation whether there will be functionality in a future release.
59.38S4TWL - Retail Factsheets

Application Components: LO-MD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2377780</td>
<td>S4TWL - Retail Factsheets</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Fiori Factsheets allow to user friendly display of business objects.

**Business Process related information**

In SAP S/4HANA, retail specific Fiori Factsheets for article, site, allocation, promotion, and bonus buy are not available anymore.

**Required and Recommended Action(s)**

Starting with SAP S/4HANA 1709 Object Pages for product, site and allocation table are available. Starting with SAP S/4HANA 1709 FPS01 Object Page for promotion is available. The development of further Object Pages are under evaluation for future releases.

59.39S4TWL - Retail Short Text Replacement

Application Components: LO-MD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2377816</td>
<td>S4TWL - Retail Short Text Replacement</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Via short text replacement industry specific terminology can be used on user interfaces. In Retail, e.g. material, plant, material group, factory calendar are not common terms. Terms article, site, merchandise category, logistics calendar are more common.

Business Process related information

In SAP S/4HANA, retail short text replacement (as described in note 897714) is not available anymore.

Required and Recommended Action(s)

There is no equivalent functionality. It is under evaluation how to provide industry specific terminology in a future release. In the meantime, there is a workaround available. Please refer to note 2712569 for further information.

How to Determine Relevancy

This Simplification Item is relevant if retail short text replacement is used. Call transaction MM41. If it reads "Create Article" the replacement is used, if it reads "Create Material" it is not used.

59.40S4TWL - Subsequent Settlement - Vendor Rebate Arrangements

Application Components: MM-PUR-VM-SET

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2267415</td>
<td>S4TWL - Subsequent Settlement - Vendor Rebate Arrangements</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Business Value

Condition Contract Management is superior to Subsequent Settlement. It offers the following advantages:

- Central, standardized solution for the administration of supplier and customer conditions
- Transparency which documents are relevant and related to each other
- Detailed overview of settlements
- Flexible settlement calendar
- Support of various data sources to allow modelling of flexible scenarios (including, but not limited to sales-related rebates, scanback rebates, customer funds, purchase-related rebates)
- Fully integrated with the Order-to-Cash and the Procure-to-Pay Processes
- Designed for high performance
- Architected to benefit from SAP HANA

Description

In SAP S/4HANA, the Subsequent Settlement (MM-PUR-VM-SET) application is replaced by the new Contract Settlement (LO-GT-CHB) application. For this reason, the functional scope of subsequent settlement has been restricted, that is, in SAP S/4HANA, it is no longer possible to:

- Create new rebate arrangements using transaction MEB1 or
- Extend existing rebate arrangements using transactions MEBV / MEB7 / MEBH

Additionally, as a consequence of the material field length extension in the SAP S/4HANA landscape, the structure of table S111 was adjusted. This can have some impact if the business volume data has to be rebuilt in the SAP S/4HANA system.

Business Process related information

In SAP S/4HANA, Contract Settlement replaces Subsequent Settlement, which means that existing rebate agreements can only be processed up until the end of the validity date of the agreement and must then be closed by a final settlement. Afterwards new agreements can only be created based on condition contracts.
Furthermore, if recompilation of the business volume data in SAP S/4HANA, on-premise edition 1511 is required, the index table S111 has to be rebuilt as described in SAP Note 73214 (Subseq.settl.: Retrospec.compltn/recompltn of busin.vol.data).

| Transaction not available in SAP S/4HANA on-premise edition 1511 | MEB1; MEB7; MEBV, MEBH |

**Required and Recommended Action(s)**

In SAP S/4HANA there are no direct activities required for continuing the business process for subsequent settlement, with the only exception that the agreements have to be closed after the end of the validity period.

If a recompilation of the business volume data is required, the table S111 has to be rebuilt with the report RMEBEIN3 as described in note 73214

**Related SAP Notes**

<table>
<thead>
<tr>
<th>Conversion Pre-Checks</th>
<th>SAP Notes: 2194923, 2215220</th>
</tr>
</thead>
<tbody>
<tr>
<td>Related SAP Notes</td>
<td>SAP Note: 73214</td>
</tr>
</tbody>
</table>

**59.41S4TWL - Segmentation (from 1809 onwards)**

Application Components: LO-RFM, LO-RFM-SGT

**Symptom**

You are doing a system conversion to SAP S/4HANA 1809 or higher, and you are using segmentation related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case

**Solution**

**Description**

In SAP S/4HANA segmentation is available, but has some differences compared to SAP ERP which need to be considered.
Business Process related information

The differences in segmentaion between SAP ERP and SAP S/4HANA are the following:

- In SAP S/4HANA segmentation strategies 1:n and n:m are available for MRP and supply assignment.
- In SAP S/4HANA segmentation strategies 1:n and n:m are not available for advanced ATP. Advanced ATP supports Pool Segment only.
- Segmentation is considered only in the advanced ATP (aATP). The classic ATP is not supported anymore.
- Stock protection in SAP ERP is implemented via segmentation. In SAP S/4HANA stock protection can be achieved via product allocation (PAL).
- In SAP S/4HANA, the default segmentation can be maintained via a specific transaction (SGT_DEFAULT).
- In SAP S/4HANA transactions to configure segmentation structures and strategies (SGTS, SGTC) are now available in the application (vs. customiting in SAP ERP).
- In SAP S/4HANA MRP related article/material master data on segment level are not available anymore.
- In SAP S/4HANA segmentation maintenance in the article/material master has been simplified compared to SAP ERP (e.g. automatic fixing of the segmentation strategy during article and listing maintenance).
- In SAP S/4HANA the transaction LS24 doesn’t support the “Refresh” button anymore.
- PRC planning level (SGT_PRPL) and Consecutive Number for Segmentation of Equal Status (SGT_CNES) fields are not supported anymore.
- Safety stock is supported only at Default stock segment level (vs stock segment level in SAP ERP).
- Segmentation is considered only in MRP live (MD01N). The classic MRP is not supported.
- In SAP S/4HANA segmentation is not supported in the following applications:
  - Quality Management (QM)
  - Production Planning - Detailed Scheduling (PP-DS)
  - Process Order
  - Project stock
  - Demand-Driven MRP (DDMRP)
  - Predictive MRP (pMRP)
  - Segmentation structure and strategy are not considered in EWM
  - Spare Parts Planning (SPP)
- In SAP S/4HANA, the following fields are not available:
  - Discrete Batch Number (SGT_CHINT)
  - Stock Protection Indicator (SGT_STK_PRT)
  - Consumption Priority (SGT_PRCM)
  - ATP/MRP Status for Material and Segment (SGT_MRP_ATP_STATUS)

- Date from which the plant-specific material status is valid (SGT_MMSTD)
- In SAP S/4HANA, the following transactions are not available:
  - SGT_CONVERT_MATERIAL
  - SGT_MAINTAIN_VALT
  - SGT_MASS_EXTD_MAT

### Required and Recommended Action

Part of the conversion from SAP ERP to SAP S/4HANA, article need to be resasigned from "old" to "new" segmentation, please see referenced note.

Implemented business processes need to be adjusted according to the changes listed above.

### How to Determine Relevancy

This Simplification Item is relevant if segmentation is used. This can be checked via transaction SE16N. Enter table SGT_COVS_T and check whether there are entries. There is also a pre-check class CLS4SIC_SGT_MASTER_DATA, please see attached note.

### Other Terms

Segmentation, Fashion, Retail.

### 59.42S4TWL - Allocation Run Master Data

Application Components: LO-RFM, LO-RFM-MD, LO-RFM-MD-ART

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2465556</td>
<td>S4TWL - Master Data for Order Allocation Run (ARun) in Fashion Management</td>
</tr>
</tbody>
</table>

### Symptom

You are doing a system conversion from SAP Fashion Management to SAP S/4HANA, and you are using Order Allocation Run functionality. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

There are some differences in master data for Order Allocation Run in SAP S/4HANA fashion for vertical business compared to SAP Fashion Management.

Business Process related information

In SAP Fashion Management it was possible to maintain both the distribution profile and the Allocation Run relevance via integrated article maintenance (transaction MM41, MM42).

In SAP S/4HANA either the distribution profile, or Allocation Run/Supply Assignment relevancy can be maintained, as both functionality exclude each other.

Required and Recommended Action(s)

During the conversion, the adjustments are executed automatically. The relevant XCLA class is CL_XCLA_MARC. The class clears the MARC-FPRFM entries, for those MARC entries where there is a non-initial MARC-FSH_MG_ARUN_REQ.

How to Determine Relevancy

This Simplification Item is relevant if Order Allocation Run functionality is used. This can be checked via transaction SE16N. Enter table MARC and check whether there are entries where MARC-FPRFM and MARC-FSH_MG_ARUN_REQ both are not initial.

59.43S4TWL - Fashion Contract Disablement

Application Components: LO-RFM, LO-RFM-SD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2468952</td>
<td>S4TWL - Fashion Contract (Requirement Relevant Contracts) in SAP Fashion Management</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to an SAP S/4HANA release prior to 1709 FPS02, and you are using Fashion Contracts (requirement relevant contracts) in SAP Fashion Management. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Fashion contracts are not available prior to SAP S/4HANA 1709 FPS02.

Business Process related information

In SAP Fashion Management it is possible to characterise contracts as fashion contracts. In the processes of requirements planning (MRP), ATP, and Order Allocation Run those fashion contracts are treated accordingly. In SAP S/4HANA fashion contracts are available only starting with release S/4HANA 1709 FPS02.

Required and Recommended Action(s)

If you are using contracts and contract release orders in SAP Fashion Management solution, and want to convert to S/4HANA to a release before 1709 FPS02 you need to perform the below mentioned actions:

- You must close the existing open contract release orders referencing fashion contracts (e.g. transaction VA02).
- You must close the existing open fashion contract documents (e.g. transaction VA42) so that additional requirements existing for these documents would not be considered in SAP S/4HANA system.

In SAP S/4HANA prior to 1709 FPS02 you need to use standard sales orders only to realize order to cash (O2C) lifecycle.

How to Determine Relevancy

This Simplification Item is relevant if Fashion Contract functionality is used. This can be checked via transaction SE16N. Enter table VBAK and check whether there are entries where VBTYP = 'G' and FSH_CQ_CHECK = 'X'.

Other Terms

SAP Fashion Management, Fashion Contract, Requirement Relevant Contract
59.44S4TWL - Allocation Run

Application Components: LO-RFM-ARN, LO-RFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
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<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2467506</td>
<td>S4TWL - Order Allocation Run (ARun) in Fashion Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, and you are using Order Allocation Run (ARun) in SAP Fashion Management. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

There are differences between Order Allocation Run in SAP Fashion Management and Order Allocation Run in SAP S/4HANA (which is now part of Supply Assignment).

Business Process related information

Salient features of Supply Assignment (ARun) in SAP S/4HANA are as follows:

- Supply Assignment is now an SAP S/4HANA core solution
- Supply Assignment and Back Order Processing (BOP) are merged into one common solution based on Advanced ATP
- FIORI based executions of actual and simulated assignments
- FIORI based result monitor and explanation tool for the assignments
- Supply Assignments of requirements for sales orders and stock transport orders
- Supply Assignment is not mandatory and can be switched on/off at article/site level
- Assignment of batches is optional and can be decided on article/site level
- Release procedure is decoupled from Supply Assignment execution run and can run independent
- Simplified Release Rule Determination procedure
- Insight to action – Supply Assignment workbench to check exceptions and acting on them
Order Allocation Run features not available in SAP S/4HANA (that were available in SAP Fashion Management):

- Order Allocation Run customizing settings
- Contract call off assignments and reference handling
- Customer BADIs throughout Order Allocation Run process
- Order Allocation Run workbench / Order Allocation Run workbench batch report
- Release and grouping strategy and determination table generation
- Assignment and reference handling between Multiple-Ship-to-Order (MSO) main orders and exploded orders
- Consistency check report for Order Allocation Run results (because of simplified data model)
- Assignments of Order Allocation Run to Make-to-Order, Purchase-to-Order, and subcontracting components
- Order Allocation Run related transactions are not available in SAP S/4HANA

Data model simplification:

- The design of Order Allocation Run in SAP S/4HANA is different compared to SAP Fashion Management. In SAP S/4HANA the Order Allocation Run does not store allocations in the tables FSH_BDBS and FSH_PREVIEW anymore, and those tables are not referred to by the Order Allocation Run.
- The allocations in FSH_BDBS and FSH_PREVIEW in SAP Fashion Management will not be migrated to the new table in SAP S/4HANA.
- As a consequence, the Order Allocation Run has to be set up and executed again after system conversion.
- Due to changed design in SAP S/4 HANA, the fields FSH_RALLOC_QTY and FSH_SALLOC_QTY in standard tables would not be updated anymore by Supply Assignment.

In SAP S/4HANA, the following transactions are not available:

- ARUN
- ARUNNO
- ARUNP
- ARUNWB
- ARUNWB_BATCH
- ARUN_BATCH
- ARUN_CUST_TEMP_GRP
- ARUN_PROI
- ARUN_VARIANT

Note - In order to use the Supply Assignment in SAP S/4HANA, the business functions SUPPLY_ASSIGNMENT_01 has to be activated. For retail fashion management specific
functionalities of Supply Assignment, business function SUPPLY_ASSIGNMENT_RETAIL_01 has to be activated.

**Required and Recommended Action(s)**

Adjust the respective business processes accordingly.

**How to Determine Relevancy**

This Simplification Item is relevant if Order Allocation Run functionality is used. This can be checked via transaction SE16N. Enter table FSH_BDBS and check whether there are entries, or whether there are entries in table FSH_PREVIEW.

**Other Terms**

Order Allocation Run, ARun, Fashion Management, Retail, Supply Assignment

**59.45S4TWL - Segment Field Length Extension**

Application Components: LO-RFM, LO-RFM-CA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2522971</td>
<td>S4TWL - Segment Field Length Extension</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP 6.0 EHP7/EHP8 to SAP S/4HANA 1709 and you are using segmentation functionality. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The data model of segments has changed in SAP S/4HANA 1709. The field length has been increased from 16 to 40 characters.

**Business Process related information**

This data model change does not have any business impact.

Required and Recommended Action(s)

During the conversion, adjustments are made automatically.

How to Determine Relevancy

This Simplification Item is relevant if segmentation functionality is used. This can be checked via transaction SE16N. Enter table MARA and check whether there are entries with MARA-SGT_REL non initial.

59.46 S4TWL - Fashion Functionality

Application Components: LO-RFM

Related Notes:

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<th>Note Type</th>
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<th>Note Description</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2516743</td>
<td>S4TWL - Fashion Functionality</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, and you are using fashion related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case

Solution

Description

Certain fashion functionalities have changed or are not available anymore in SAP S/4HANA for fashion for vertical business, when compared to SAP Fashion Management.

Business Process related information

For changed functionality, please see referenced notes for:

- Segmentation
- Segment Field Length Extension
- Fashion Season Conversion
- Allocation Run Master Data
- Allocation Run
- Season in Inventory Management
The following functionality has changed:

- Display Stock/Requirements Situation: Transaction FSH_MD04 is not available in SAP S/4HANA anymore. There is a new transaction MD04P providing relevant functionality.
- Mass Data Change for Sales Documents and Stock Transport Orders: Transactions FSH_MASS_SD/FSH_MASS_SDN are not available anymore. Functionality is provided via repricing functionality in SD and MM (e.g. VA05, MEI1), and Advanced ATP transactions.
- Split and Change Purchase Orders: Transaction FSH_SPLITPO is not available anymore. Functionality is provided via transaction FSH_PWB (Purchase Order Mass Maintenance Workbench).
- Process for Subcontracting will not be supported by Supply Assignment (Allocation Run, ARun).
- Stock Protection is not considered in ATP overview display in sales order processing (it is considered in calculation and thus correct).
- Multi Ship-to-Order (MSO)
- Fiori apps for Buy Planner
  - Plan Procurement for Buy-Planner (PLAN_PROCURE),
  - Purchase Requisition Processing for Buy-Planner (PR_PROCESS)
- are not available anymore.
- Purchase Order generation rules.
- Snapshot functionality in procurement and sales is not available anymore.

The following transactions are obsolete:

- FSH_ARUNITA Insight to Action
- FSH_CIF_BATCH_CL Default Class for Batches at Plant
- FSH_CIF_BTCHCHR Batch Characteristics
- FSH_COD Fashion Cut Off Date
- FSH_COD_GR_UPD Update Del. Date for Cut Off dates
- FSH_DROP_REQ Drop Open Requirements
- FSH_ITAE Insight to Action - Config exceptions
- FSH_ITAH Insight to action - drilldown configuration
- FSH_MASS_SD Mass change transaction
- FSH_MD04 Generic Materials Stock/Requirements List
- FSH_PROD Create product number for GTS transfer
- FSH_SPLITPO Split Purchase Order
- FSH_CO09 Generic Article CO09

The following transactions are obsolete prior to SAP S/4HANA 1709 FPS02, and are available starting w/ SAP S/4HANA 1709 FPS02 (see also note 2627238):

- FSH_QDP Quantity Distribution Profile
FSH_PCW Production Control Workbench

In addition, the number range of object FSH_MPLND (was in SAP Fashion Management) has been substituted by number range object FSH_MPLO. The number range intervals of object FSH_MPLO need to be maintained accordingly (transaction SPRO -> Logistics - General -> Fashion Management -> Production Planning and Control -> Define Number Range for Master Planned Order; or directly via transaction SNRO, enter FSH_MPLO for the object name).

The following transactions are obsolete prior to SAP S/4HANA 1809, and are available starting w/ SAP S/4HANA 1809:

- FSH_PFM Maintain PFM Rules
- FSH_PSM Maintain PSM Rules

Integration scenarios with SAP Customer Activity Repository 3.0

- Please note, that currently integration scenarios with SAP Customer Activity Repository 3.0 (CARAB 2.0) and consuming applications are not supported. SAP plans to provide a note to enable such an integration scenario.

**Required and Recommended Action**

Implemented business processes need to be adjusted according to the changes listed above.

Please see also referenced Release Information Note.

**How to Determine Relevancy**

This Simplification Item is relevant if fashion processes are used. This is the case if at least one of the following transaction is used: FSH_ARUNITA, FSH_CFHM, FSH_CIF_BATCH_CL, FSH_CIF_BTCHCHR, FSH_CO09, FSH_COD, FSH_COD_GR_UPD, FSH_DROP_REQ, FSH_ITAE, FSH_ITAH, FSH_MASS_SD, FSH_MD04, FSH_PCW, FSH_PFM, FSH_PROD, FSH_PSM, FSH_QDP, FSH_SPLITPO.

**Other Terms**

Fashion, Retail.
59.47S4TWL - Season Active in Inventory Management

Application Components: LO-RFM, LO-RFM-MD-ART, LO-RFM-MD

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2535093</td>
<td>S4TWL - Season Active in Inventory Management</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion from SAP ERP (SAP Fashion Management or SAP Merchandising) to SAP S/4HANA, and you are using season based inventory management. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA functionality to assign a season to inventory stock is not available anymore.

Business Process related information

Visibility to which season a specific stock is assigned to is not available anymore.

Required and Recommended Action(s)

During conversion from SAP Fashion Management to SAP S/4HANA the respective flag in the article master (level article-site) is cleared. Stock information as such is unchanged, just the assignment to a season is cleared.
You need to adjust your business processes accordingly.

How to Determine Relevancy

This Simplification Item is relevant if season functionality is used in inventory management.
SAP Fashion Management: This can be checked via transaction SE16N. Enter table MARC and check whether there are entries with FSH_SEAIM set to ‘X’
59.48S4TWL - Segmentation (Upgrade SAP S/4HANA 1709 to 1809)

Application Components: LO-RFM-SGT, LO-RFM

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2629241</td>
<td>S4TWL - Segmentation (Upgrade SAP S/4HANA 1709 to 1809)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system upgrade from SAP S/4HANA 1709 to SAP S/4HANA 1809, and you are using segmentation related business functionality. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The data model of segmentation has changed from SAP S/4HANA 1709 to SAP S/4HANA 1809.

**Business Process related information**

This data model change does not have any business impact.

**Required and Recommended Action(s)**

In SAP S/4HANA 1809, ATP pool segment is enabled which is stored in table SGT_CATP.

During the upgrade from 1709 to 1809 a migration report needs to be executed, which looks at 'ARUN/MRP/ATP: Requirement/Stock Allocation' node and populates the pool segment in table SGT_CATP. This is achieved via execution of XPRA report R_SGT_ATP_MIGRATION_XPRA.

In case the installation was originally converted from a SAP Fashion Management (SAP ERP 6.0 EHP7/EHP8) to SAP S/4HANA 1709 data contained in table SGT_CATP needs to be deleted via a pre-migration report R_SGT_POOL_SEGMENT_DELETE as ATP pool segment is not available in S/4HANA 1709.

**How to Determine Relevancy**
This Simplification Item is relevant if segmentation is used. This can be checked via transaction SFW2 to check whether Business Function LOG_SEGMENTATION is activated.

Other Terms

Segmentation, ATP pool segment, Fashion, Retail, SGT_CATP

59.49S4TWL - Conversion of Season Master Data to SAP S/4HANA 1809

Application Components: LO-RFM-CA, LO-RFM-CA-SE, LO-RFM

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2640859</td>
<td>S4TWL - Conversion of Season Master Data to S/4HANA 1809</td>
</tr>
</tbody>
</table>

Symptom

You are using season master data and you are doing
- a system conversion from SAP ERP (SAP Fashion Management, or SAP Merchandising) to SAP S/4HANA 1809 (S4CORE 103)
- or an upgrade from S/4HANA 1610 (S4CORE 101), or S/4HANA 1709 (S4CORE 102) to SAP S/4HANA 1809 (S4CORE 103)
In this case, the following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

The season master data model is simplified in the SAP S/4HANA 1809 which requires the existing season master data in respective tables to be converted accordingly.

Solution

Description

In SAP Fashion Management or S/4HANA 1610 or S/4HANA 1709, seasons/collections/themes are stored in multiple tables such as FSH_SEASONS, FSH_COLLECTIONS, FSH_THEMES, FSH_SEASONS_T, FSH_COLLECTIONS_T, FSH_THEMES_T.

In SAP ERP (Retail), the seasons were defined as customizing entries.
These tables are not used anymore. Simplified season master data tables RFM_SEASONS, RFM_SEASONS_T will replace them in SAP S/4HANA 1809 (S4CORE 103) onwards.

**Business process related information**

As part of conversion/upgrade of the system to SAP S/4HANA 1809 (S4CORE 103), the following tables are filled automatically:

- SAP Fashion Management, S/4HANA 1610 (S4CORE 101), or S/4HANA 1709 (S4CORE 102)
  - FSH_SEASONS, FSH_COLLECTIONS, FSH_THEMES -> RFM_SEASONS
  - FSH_SEASONS_T, FSH_COLLECTIONS_T, FSH_THEMES_T -> RFM_SEASONS_T
- SAP ERP (Retail)
  - First Step
    - TWSAI -> FSH_SEASONS
    - T6WST -> FSH_SEASONS_T
    - TWSAI -> FSH_COLLECTIONS
    - T6WSAT -> FSH_COLLECTIONS_T
  - Second Step
    - FSH_SEASONS, FSH_COLLECTIONS, FSH_THEMES -> RFM_SEASONS
    - FSH_SEASONS_T, FSH_COLLECTIONS_T, FSH_THEMES_T -> RFM_SEASONS_T

**Required and Recommended Action(s)**

During the conversion/upgrade, the following reports are executed automatically:

- SAP Fashion Management, S/4HANA 1610 (S4CORE 101), or S/4HANA 1709 (S4CORE 102)
  - R_FSH_TO_RFM_SEASONS_MD_XPRA
- SAP ERP (Retail)
  - First Step
    - R_FSH_S4_SEASONS_MD_MIG
  - Second Step
    - R_FSH_TO_RFM_SEASONS_MD_XPRA

**How to Determine Relevancy**

This Simplification Item is relevant if retail/fashion season is used.
SAP ERP Merchandising (SAP ERP Retail): This can be checked via transaction SE16N. Enter table MARA and check whether there are entries with field MARA-SAISO.
(Season) not initial.
SAP Fashion Management (SAP ERP Fashion): This can be checked via transaction SE16N. Enter table FSH_SEASONS_MAT and check whether there are entries.
SAP S/4HANA 1610 and 1709: This can be checked via transaction SE16N. Enter table FSH_SEASONS_MAT and check whether there are entries.

Other Terms

SAP ERP (Retail), SAP Fashion Management, S/4HANA 1610, S4CORE 101, S/4HANA 1709, S4CORE 102, Seasons, R_FSH_TO_RFM_SEASONS_MD_XPRA, FSH_SEASONS, FSH_COLLECTIONS, FSH_THEMES, FSH_SEASONS_T, FSH_COLLECTIONS_T, FSH_THEMES_T, RFM_SEASONS, RFM_SEASONS_T

59.50S4TWL - Supply Assignment Preview (upgrade to SAP S/4HANA 1809)

Application Components: LO-RFM-ARN, LO-RFM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2637163</td>
<td>S4TWL - Supply Assignment Preview (upgrade from S/4HANA 1709 to S/4HANA 1809)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system upgrade from SAP S/4HANA 1709 to SAP S/4HANA 1809, and you are using Supply Assignment Preview functionality. The following SAP S/4HANA Transition Worklist item is applicable in this case

Solution

Description

The data model of Supply Assignment Preview has changed from SAP S/4HANA 1709 to SAP S/4HANA 1809.

Business Process related information

This data model change does not have any business impact.

In S/4HANA 1709 the preview mode could be executed in back order processing, the variant having checking rule as $PRE.
In S/4HANA 1809 the preview mode can be executed in back order processing, when in the variant the new parameter "Assignment Preview" is set to active.

**Required and Recommended Action(s)**

There is no migration report for Supply Assignment Preview. Before the upgrade the old preview entries can be deleted (via transaction ARUNITA "Insight to Action", Execution Mode: Background, Selection Mode: Preview, Action: Unassign). After upgrade the back order processing needs to be executed again.

**How to Determine Relevancy**

This Simplification Item is relevant if Supply Assignment Preview functionality is used. This can be checked via transaction SE16N. This simplification item is relevant if there are entries
- in table ARUN_BDBS and with ARUN_MODE = 2
or
- in table ATP_BOP_VARIANT with ABOPCHECKINGRULE='$PRE' AND ( ABOEXECUTIONMETHOD = "FULL" OR ABOEXECUTIONMETHOD = "ARUN" )

**59.51S4TWL - Vendor Characteristic Values**

Application Components: LO-MD-BP-VM

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2885547</td>
<td>S4TWL - Vendor Characteristic Values</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA Retail for merchandise management or SAP S/4HANA for fashion and vertical business. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

Via classification system it is possible to assign characteristic values to articles. Vendor Characteristic Values are used to maintain the descriptions of a characteristic
value a supplier uses, in case this description deviates from the description you are using. E.g. you use "red" for a characteristic value whereas the supplier uses "fire engine red".

In ECC it was possible to maintain the vendor characteristic values either in vendor maintenance (transactions MK0x, XK0x) or in purchasing view of the article maintenance (transactions MM4x). Because of the Business Partner harmonization in S/4HANA, it is not possible anymore to maintain the values via supplier maintenance. It is still possible to maintain the values via article maintenance.

In addition it is possible to achieve a similar via Characteristic Value Conversion.

**Business Process related information**

Business processes are not affected besides the maintenance as such.

**Required and Recommended Action(s)**

Use maintenance capabilities of article maintenance or switch to Characteristic Value Conversion.

This does not affect your custom code.

**How to Determine Relevancy**

This Simplification Item is potentially relevant if Vendor Characteristic Values are used. This can be checked via transaction SE16N. Enter table WYT2 and check whether there are any entries.

**59.52S4TWL - Lean SAF Interface**

Application Components: IS-R-PUR-FC, IS-R-PUR, IS-R, MM-CBP

**Related Notes:**

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
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<tbody>
<tr>
<td>Business Impact</td>
<td>3035561</td>
<td>S4TWL - Lean SAF Interface</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

This interface covers the integration between ECC and a stand alone SAF forecasting solution (from former company Simulation, Analysis and Forecasting AG).

Business Process related information

In SAP S/4HANA this integration scenario is not available anymore.

This should not be confused with the integration with SAP Forecasting and Replenishment, which of course is still available and supported.

Software package: WSAFS.

Transactions: WSAF001, WSAF002, WSAF003, WSAF004, WSAFR01, WSAFR02.

Required and Recommended Action(s)

In case you used integration with in the past available stand alone SAF forecasting solution, you can switch to SAP Forecasting and Replenishment or SAP UDF (Unified Demand Forecasting).

In case you reuse ABAP objects of packet WSAFS in your custom code, please see attached note.

How to Determine Relevancy

This Simplification Item is relevant if the lean SAF interface is used.
This is the case if any of the following transactions is WSAF001, WSAF002, WSAF003, WSAF004, WSAFR01, WSAFR02.

59.53S4TWL - BAdI for Article Reference Handling

Application Components: LO-RFM, LO-RFM-MD-ART, LO-RFM-MD

Related Notes:

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<th>Note Number</th>
<th>Note Description</th>
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</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3043856</td>
<td>S4TWL - BAdI for Article Reference Handling</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion or an upgrade to SAP S/4HANA 2021, and you are using some Retail related business applications. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

With release SAP S/4HANA 2021 the technical type of BADI_ARTICLE_REF_RT has changed from a "classic BAdI" to kernel BAdI.

Business Process related information

This change of the BAdI type does not have any business impact.

Required and Recommended Action(s)

Which steps need to be described [here](http://help.sap.com). In case this link does not work, go to the home page [http://help.sap.com](http://help.sap.com) and enter search term "Migrating BAdIs".

How to Determine Relevancy

This Simplification Item is relevant if BADI_ARTICLE_REF_RT is used. This is the case if there is a relevant entry in view V_EXT_ACT. You can test this via transaction SE16 for

EXIT_NAME = BADI_ARTICLE_REF_RT AND IMP_NAME starts with Z*

or

EXIT_NAME = BADI_ARTICLE_REF_RT and IMP_NAME starts with Y*.

Other Terms

BADI_ARTICLE_REF_RT

59.54S4TWL - Retail Store Fiori App

Application Components:LO-SRS

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2342914</td>
<td>S4TWL - Retail Store Fiori App</td>
</tr>
</tbody>
</table>
Symptom

You are doing a system conversion to SAP S/4HANA, and you are using the Fiori app for transfer stock. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In SAP S/4HANA, some table structures have changed. Thus, open transfer stock documents need to be closed prior to the conversion.

Business Process related information

Business processes will not be affected.

Required and Recommended Action(s)

Please, follow instructions of referenced note.

How to Determine Relevancy

This Simplification Item is relevant if the Fiori app for transfer stock is used. This can be checked via transaction SE16N. Enter table TRF_DOC_HEAD and check whether the table exists or there are any entries in the table.

59.55S4TWL - SAP AFS Integration

Application Components: CA-DMS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371161</td>
<td>S4TWL - SAP AFS Integration</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

SAP Apparel & Footwear (SAP AFS) is not part of the SAP S/4HANA solution portfolio. It is planned to release verticalized fashion processes in the future.

In SAP S/4HANA the functionality to integrate with SAP AFS is available, but defined as "not strategic any more". See SAP note 2269324 – Compatibility Scope Matrix for SAP S/4HANA, on-premise edition, refer to ID 104 in the xls

Business Process related information

Move to verticalized fashion processes once available.

Required and Recommended Action

No special actions for the SAP AFS integration scenario is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if Apparel and Footwear integration is used. This is the case if transaction WAFS is used.

59.56S4TWL - POS Outbound via Idoc WP_PLU

Application Components: SD-POS-OUT, SD-POS

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371149</td>
<td>S4TWL - POS Outbound via IDoc WP_PLU</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description
In SAP S/4HANA Retail for merchandise management, there are several alternatives for sending product information to stores (typically to POS solutions, or in-store merchandise management solutions).

In SAP S/4HANA 1610 release sending information via IDoc WP_PLU is available, but defined as "not strategic any more". See SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition, refer to ID 104 in the xls

Business Process related information

Move to other communication methods (e.g. Assortment List (High Performance Retailing), enterprise service Merchandise Replication).

Required and Recommended Action

No special actions for POS outbound scenario via IDoc WP_PLU is needed when converting from SAP ERP to SAP S/4HANA.

59.57S4TWL - Valuation in Retail

Application Components: MM-IM-GF, MM-IM, MM-IM-GF-SAV

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2365503</td>
<td>S4TWL - Retail Revaluation</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

Data model changes in Material Ledger and Accounting (see note #2337368) have affected the way, retail revaluations are posted. When you are using the stock valuation at sales price, as this is usual in retail systems, this note describes the changes, that may be relevant for custom coding.

Solution

Revaluations affecting margins are posting financial documents

Function Module STOCK_SALES_PRICE_REVALUATION, as well as the FORMS purchase_price_calculate and purchase_prepare_price_data have been changed, so that they are posting financial documents at the end. In SAP ERP this was the case for the revaluation not affecting margins only. The financial posting leads to entries in tables ACDOCA and ACDOCA_M_EXTRACT which are used to aggregate the MBEW-VKSAL field. (See changes in Material Ledger note #2337368).

Revaluations not affecting margins are updating stock values at cost in alternative material ledger currencies

When a revaluation leads to changes in the stock value at purchasing price, this change is now posted in all material ledger currencies. This is normally the case, when you use a revaluation profile "not affecting margins". This change is implemented in FORM add_material_ledger_currencies in include LWBW1F09.

How to Determine Relevancy

This Simplification Item is relevant if sales price valuation, or value-only articles are used. This can be checked via transaction SE16N.
Sales price valuation: Enter table T001K and check whether there are entries with field XVKBW (Sales price valuation active) not equal blank.
Value-only article: Enter table T023W and check whether there are entries with field WWGPA (Material group material) not equal blank. If this is the case, that is a good indicator that value-only articles are used.

59.58S4TWL - Retail Demand Management Integration

Application Components: LO-MD-RDM, LO-MD

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2371157</td>
<td>S4TWL - Retail Demand Management Integration</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.
Solution

Description

SAP Retail Demand Management is not part of the SAP S/4HANA solutions portfolio.

In SAP S/4HANA Retail for merchandise management, functionality to support Retail Demand Management integration is available, but defined as "not strategic any more". See SAP note 2269324 - Compatibility Scope Matrix for SAP S/4HANA, on-premise edition, refer to ID 104 in the xls.

Business Process related information

Move to other available communication methods.

Required and Recommended Action

No special actions for Retail Demand Management integration is needed when converting from SAP ERP to SAP S/4HANA.

How to Determine Relevancy

This Simplification Item is relevant if retail demand management integration is used. This is the case if transactions RDMCHG RDMINI RDMMAN RDMREO RDMSEL RDM_S* are used.
60. Industry Telecommunications

60.1 S4TWL - Lock and unlock services using IST_TDATA

Application Components: IS-T-CA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270468</td>
<td>S4TWL - Lock and unlock services using IST_TDATA</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

In the table IST_TDATA telecommunication services data is stored that is used by Receivables Management - Contract (RM-CA) to create requests for locking or unlocking services. In case the provider order in Accounting Receivables Management – (RM-CA) is used, this table is not needed any more. All necessary data can be retrieved from the provider contract.

Business Process related information

If you are already using database table IST_TDATA for managing telecommunication services and the provider contract as well, you can continue storing telecommunication service data in database table IST_TDATA. In case you decide to stop using table IST_TDATA RM-CA, items that are already posted (still overdue and reason for locking the telecommunication service) are still processed based on the functionality that is using the database table IST_TDATA. New open items, posted on a provider contract and causing a request for locking the telecommunication service, are processed based on the provider order data and do not lead to new entries in the database table IST_TDATA.

To discontinue using the database table IST_TDATA please change the settings in customizing:

SAP Telecommunications -> Basic Settings -> Telecommunications Services in SAP RM-CA -> Define Basic Settings for Managing Service Data
Required and Recommended Action(s)

No changes in business processes, it might (if you decided for) only have an influence on the technical level in the sense of "how necessary information are being retrieved from the system".

To check if table IST_TDATA is used, call the transaction SE16 to check for entries in the table IST_TDATA.

60.2 S4TWL - PORTAL ROLES FOR NETWORK LIFECYCLE MANAGEMENT (NLM)

Application Components: IS-T-NM-PCT

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2273101</td>
<td>S4TWL - Portal Roles for Network Lifecycle Management (NLM)</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

Portal roles (SAP ERP) for the Network Lifecycle Management (NLM) area of the telecommunications sector are not available within SAP S/4HANA, on-premise edition (no functional equivalent available).

This functionality was intended to implement the following portal roles as business packages for the Network Lifecycle Management area of the telecommunications sector:

- Business Package for Site Technician (Telecommunications)
- Business Package for Workforce Manager (Telecommunications)
- Business Package for Network Operation Manager (Telecommunications)

Business Process related information
No influence on business processes as the functionality itself is still available. This note is only related to the possibility of implementing the portal roles.
61. Industry Utilities

61.1 S4TWL - CVI Integration for SAP ISU

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2344100</td>
<td>S4TWL - CVI Integration for SAP ISU</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion from SAP ERP to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

In SAP S/4HANA, on-premise edition, the central business partner approach (CVI) is mandatory. Customer and vendor master record creation, maintenance and display is only possible via the Business Partner functionality (Transaction 'BP'). For more information, see the simplification item Business Partner Approach (SAP Note 2265093).

Consequently, the former concept of SAP IS-U Business Partner and SAP SD Customer integration in SAP ERP has been substituted by SAP Customer Vendor Integration (CVI) in SAP S/4HANA.

Please note that it is planned to check the introduction of the Customer/Vendor Integration in the pre-checks and the technical Conversion procedure of SAP S/4HANA, on-premise edition 1511. A system where the customer/vendor integration is not in place will be declined for the transition.

Please note that CVI functionality described in this note is released for SAP S/4HANA only and SAP does not plan to make it available on SAP IS-U(ECC).

**Business Process related information**

No influence on business processes expected.
Required and Recommended Action(s)

In addition to following the required steps as suggested in the 'Required and Recommended Action(s)' section of SAP Note 2265093, execute the following two reports which are provided by the SAP Note 2354282 for data conversion:

<table>
<thead>
<tr>
<th>Report Name</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>REU_CVI_CUST_LINK</td>
<td>Establishes a link between the business partner and the customer as required by the standard Customer Vendor Integration (CVI) solution</td>
</tr>
<tr>
<td>REU_CVI_EKUN_TO_BUT0ID</td>
<td>Converts the ISU-specific identification fields from the table EKUN to the table BUT0ID in the system</td>
</tr>
</tbody>
</table>

SAP Notes 2202282 and 2456502 are used for the SAP S/4 HANA IS-UT master check for the system conversion check in order to ensure the data conversion. If the two reports mentioned above are not run, the system master check S4TC will fail.

Please run the two reports listed above in SAP ERP. Please note that CVI (direction ‘Business Partner-to-Customer/Vendor’) must not be activated in the source ECC system prior to the S/4HANA conversion. It must be activated in the target SAP S/4HANA system only after the successful conversion.

The early activation of the CVI(Direction ‘Customer/Vendor-to-Business Partner’) in the source ECC system before the S/4HANA conversion, is not recommended. If customers still want to do the early activation for the CVI(Direction ‘Customer/Vendor-to-Business Partner’) in the source ECC for synchronizing the customers, they might need to implement the BADI CVI_CUSTOM_MAPPER to avoid merge of first name and last name. Please see the SAP Note 1830886 for the details.

For more information about CVI-related authorization objects, please check SAP security guide for SAP S/4HANA release of interest.

Related Information

For further information, please see

- [Conversion Guide for SAP S/4HANA 1511, on-premise edition](#)
- [IS-U Specifications on the Set-Up-and-Load-Guide for the Business Partner in SAP S/4HANA](#). (attached with this note)
- IS-U Specifications for the Set-Up and Load Guide for Business Partner Relationships and Partner Roles (attached with this note)
Other Terms

CVI, ISU

61.2 S4TWL - Multichannel Foundation for Utilities

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2329190</td>
<td>S4TWL - SAP Multichannel Foundation for Utilities</td>
</tr>
</tbody>
</table>

Symptom

You currently use or are planning to use product SAP Multichannel Foundation for Utilities and Public Sector for your B2C consumer self-services and you are doing a system conversion to SAP S/4HANA. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

SAP Multichannel Foundation for Utilities and Public Sector (SAP MCF) offers utilities companies a powerful and cost-effective way to extend their customer interactions to digital channels such as Mobile, Web, and Social. SAP MCF exposes business processes out of SAP IS-U and SAP CRM for Utilities by way of OData services enabling the utilities company to offer self-service apps and website for their consumers.

MCF is delivered as 3 add-ons: UMCERP01 on SAP ERP, UMCCRM01 on SAP CRM and UMCUI501 on SAP Gateway. The SAP ERP and SAP CRM add-ons contain OData services for self-service business processes whereas the SAP Gateway add-on UMCUI501 contains two template SAPUI5 apps/UIs that are integrated with the OData services. These SAPUI5 template apps serve as examples demonstrating the consumption of SAP MCF's OData services and how they may be integrated into a self-service website or mobile app.

With SAP S/4HANA 1610, the SAP ERP add-on UMCERP01 has been retrofitted into the IS-UT layer. The SAP CRM add-on UMCCRM01 remains unaffected and you can continue to use it after conversion of your SAP ERP system to SAP S/4HANA 1610. If
you are currently using one of the two SAPUI5 template apps delivered in add-on UMCUI501 or are using your own UI/mobile app, you will need to adapt the code as per the instructions in this Note (See 'Required and Recommended Action(s)' section below) and the corresponding custom code SAP note: 2352104. Optionally, you can also use our new SAPUI5 responsive UI template delivered in a new UI SAP Gateway add-on called UIS4MCF. This new UI template is pre-integrated into SAP Multichannel Foundation for Utilities and Public Sector on S/4HANA 1610.

These instructions also apply if you use the mobile apps SAP Self-Service for Utilities for Android or SAP Self-Service for Utilities for iOS. The code of the mobile apps will need to be adapted as well.

**Business Process related information**

No influence on business processes expected.

**Required and Recommended Action(s)**

Follow the instructions in SAP note: 2352104 and the attached Cookbook.

**Other Terms**

SAP MCF, Multichannel for Utilities, SSU, SAP Self-Service for Utilities

### 61.3 S4TWL - SAP Waste and Recycling: Activation


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2437332</td>
<td>SAP S/4HANA, SAP Waste and Recycling: Activation SAP Note</td>
</tr>
</tbody>
</table>

**Symptom**

You want to use SAP S/4HANA, on-premise Edition 1610 FPS02 or higher. This SAP Note provides information about the restrictions of this release with regard to the SAP Waste and Recycling functions.

**Reason and Prerequisites**
SAP Waste and Recycling and all enhancements (for example, BW including all dataSources) are released as of SAP S/4HANA, on-premise 1610 FPS02 or higher. To be able to use SAP Waste and Recycling, the business functions ISU_WASTE_1, ISU_WASTE_RCI_2, ISU_WASTE_C&I_2, ISU_WASTE_2, ISU_WASTE_3, ISU_WASTE_4 must be activated. All code branches that would pass through the "Off" switch settings, are no longer available. In this context, also refer to the additional documentation for the relevant business functions.

If you want to switch from an earlier release to SAP S/4HANA and have not yet activated all of the aforementioned business functions, a possible conversion strategy could be to perform the technical upgrade to SAP S/4HANA on-premise first, then to activate the aforementioned business functions, and then to carry out the functional test.

Please note for the conversion to S/4HANA on-premise that the integration in EH&S: Waste Management is no longer supported.


Solution

SAP Waste and Recycling is released for SAP S/4HANA, On-Premise-Edition 1610 FPS02 and higher.

The following transactions are no longer supported for SAP S/4HANA On-Premise-Edition 1610 FPS02 and are on the black list:

- EWAELO2: Delivery Locks
- EWAELO3: Visual Control
- EWAEL02: Reserve Sample
- EWAGG: Guarantor Contract
- EWAGGABR: Allocate Bill.Data to Guarantor Cat.
- EWAWO2: Create Waste Disposal Order
- EWAWOC: Configuration: Service Product Generator
- EWADELL: Weighing Transaction
- EWADELO2: Offline Weighing

See the corresponding simplification element and the list of simplifications in SAP S/4HANA.

Other Terms

61.4 S4TWL - IDE Outgoing Payment Processing

Application Components: IS-U-IDE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2574483</td>
<td>S4TWL - IDE outgoing payment processing</td>
</tr>
</tbody>
</table>

Symptom

You are performing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Reason and Prerequisites

You as a utilities company in a deregulated market are using functionality of SAP Intercompany Data Exchange (IDE).

Solution

Description

Reports RETHP01 and RECTHP02 (program for generating the FI vendor posting) used in deregulated business scenarios in the Utilities industry are not supported in SAP S/4HANA Utilities. Instead please use transaction ETHPM (Aggregated Posting of outgoing payments).

Usage of these reports is indicated by entries in table EPAYTHP (checked via transaction SE16).

Business Process related information

Transaction ETHPM requires activation of Service Provider Agreements. Change your configuration and implementation of SAP IDE to the usage of service provider agreements.

Other Terms
RECTHP02, EPAYTHP, RECTHP01

61.5 S4TWL - SAP Waste and Recycling: Service orders in EWACONTS

Application Components: IS-U-WA

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3245321</td>
<td>S4TWL - SAP Waste and Recycling: Service orders in EWACONTS</td>
</tr>
</tbody>
</table>

**Symptom**

You want to use SAP S/4HANA 2021 FPS02 or higher. This SAP Note provides information about the restrictions of this release with regard to the SAP Waste and Recycling functions.

**Reason and Prerequisites**

Update to SAP S/4HANA, 2021 FPS02 or higher

**Solution**

**Description**

As of SAP S/4HANA, 2021 FPS02, it is no longer possible to create an additional service order in EWACONTS when creating a waste disposal order.

**Business process information**

There is currently no alternative way to create service orders in the SAP Waste and Recycling core.

In the future, the partner enhancement "Industry Solutions by PROLOGA: Planning and Dispatching" will provide the creation of service orders as a central component. For more information, see the SAP Road Map Explorer.

**Required and recommended actions**

Knowledge transfer to key users and end users

**Relevancy**
This change is relevant for you if you use the table EWADEVSERV in the SAP Waste and Recycling environment.

See the corresponding simplification element and the list of simplifications in SAP S/4HANA.

Other Terms

SAP Waste and Recycling, waste disposal industry, IS-U-WA, W&R

61.6 S4TWL - Late Payment Change

Application Components: IS-U-IN

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2681020</td>
<td>S4TWL - IS-U Late Payment Charge</td>
</tr>
</tbody>
</table>

Symptom

You are using SAP for Utilities (IS-U).

(1) If you are currently using SAP ERP 6.0 and planning a conversion to SAP S/4HANA,

(2) or if you are currently using SAP S/4HANA 1511, 1610, 1709, 1809 FPS0 and planning an upgrade to a higher release,

the following SAP S/4HANA Transition Worklist item is applicable if you are using the functionality of Late Payment Charge, and there are data records stored in database table EKLPCI.

Reason and Prerequisites

You as a utilities company are using the functionality of Late Payment Charge as part of IS-U Invoicing on SAP S/4HANA.

Solution

Description

SAP plans to deprecate and delete database table EKLPCI. From SAP S/4HANA 1809 FPS1 on, the database table EKLPCI and function module ISU_DB_EKLPCI_CHCRD
are not available anymore. Information related to Late Payment Charge is stored in database table EKLPCINV. IF table EKLPIC does not contain any data records, this note is not relevant for you.

**Required and recommended actions**

You should check content in table EKLPIC. It is expected that EKLPIC is either empty or contains very old, outdated data records that are not needed anymore. Therefore, SAP does not provide a migration tool for these data.

You should check your custom code. All accesses to database table EKLPIC have to be removed or substituted accordingly.

**Business Process related information**

Database table EKLPCINV has substituted EKLPIC. The standard SAP coding does not write to table EKLPIC.

**Other Terms**

EKLPIC, EKLPCINV

### 61.7 S4TLW - IS-Utilities Settlement Control

Application Components: IS-U-IN

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2694441</td>
<td>S4TWL - IS-U - Utilities clearing control</td>
</tr>
</tbody>
</table>

**Symptom**

You execute a system conversion for SAP S/4HANA, On-Premise Edition. The following SAP-S/4HANA conversion work list entry applies in this case.

**Solution**

**Description**

The IS-U clearing control was used to clear open items. The FI-CA clearing control replaced it with the R/3 Release 4.61 (conversion using XPRA: ISU_XPRA_SETTLEMENT_CONTROL).
Business-process-specific information

No effects on business processes expected. You only have to expect effects on customer source code, for example, by using one of the data elements affected by this note.

Example 1: You use the data element E_FWERT: Use the data element FWERT_KK instead.
Example 2: You use the data element E_VERART: Use the data element VERART_KK instead.

Required and recommended action (s)

To check whether you are still using the IS-U clearing control, call transaction SE16 and check whether the table°TE515 contains entries.

61.8 S4TWL - Maintenance of non-billable Point of Delivery services

Application Components: IS-U-IDE

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2843756</td>
<td>S4TWL - Maintenance of non-billable Point of Delivery services</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion or an upgrade to SAP S/4HANA 1909 or higher. You are using functionality of SAP IDE (Intercompany Data Exchange) for deregulated utilities markets. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

The concept of non-billable services on level of points of delivery (PoD) is comprehensively described: https://help.sap.com/viewer/905da66b76d1449fbe6ac26484842994/1909.000/en-US/8b5fcee53118d4308e10000000a174cb4.html

The maintainance (creation and change) of non-billable services is supported via the supply scenario and supply scenario
Non-billable services on PoD level are maintained automatically in the background in the context of start and end of supply and change of supplier processes. Display is available on PoD level (transaction EEDM11 "Display point of delivery"),

Following these concepts of SAP IDE, transactions for maintaining individual non-billable services are not required. Following transactions are therefore deprecated in SAP S/4HANA:

1. Transaction EPODSRVC1 ("Create PoD service")
2. Transaction EPODSRVC2 ("Change PoD service")
3. Transaction EPODSRVC3 ("Display PoD service")

These transactions have been delivered before the concept of the supply scenario has been provided. Successor of these transactions is the functionality of supply scenario generator.

This note is only relevant for you if you are using non-billable services in your actual system, i.e. there are entries in table ESERVICE.

**Business Process related information**

Use the functionality of supply scenario should be applied.

| Transactions not available in SAP S/4HANA 1909 and higher | EPODSRVC1, EPODSRVC2, EPODSRVC3 |

**61.9 S4TWL - Deprecation of transaction EA22_TOOL**

Application Components:IS-U-BI, IS-U-IN, IS-U-DM-MR

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3014556</td>
<td>S4TWL - Deprecation of transaction EA22_TOOL</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion or an upgrade to SAP S/4HANA 2020 or higher. You are using functionality of Utilities Meter Reading, Utilities Billing and Utilities
Invoicing. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

SAP S/4HANA Utilities provides a rich set of transactions and processes for Utilities Meter Reading, Utilities Billing and Utilities Invoicing exposed in the SAP Menu for the Utilities industry.

Beside this functionality, earlier releases of SAP Business suite and SAP S/4HANA provide the transaction EA22_TOOL ("Billingtool") that exposes a set of functionality in the functional utilities areas mentioned above. Due to these overlapping functionalities, transaction EA22_TOOL is not needed and therefore deprecated in SAP S/4HANA.

**Business Process related information**

For the overview of all meter reading / billing / print documents and orders, you can use the screen "Billing periods" in transaction ES32 "Display Installation".

**61.10S4TWL - Refund Claim for Germany**

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>3326146</td>
<td>S4TWL - IS-U refund claim (energy price caps in Germany)</td>
</tr>
</tbody>
</table>

**Symptom**

This note is relevant for you under folowing conditions:

(1) You are using SAP for Utilities (IS-U).

(2) As a German Utility in the market role supplier, you are using the SAP standard solution for the German laws for energy price caps according to note 3279875.

**Reason and Prerequisites**
The solution for energy price caps in Germany according to the German laws EWPBG and StromPBG is available for SAP S/4HANA 2022 and higher releases.

The length of the fields EPB_REFWERT and EPB_BETRGEW in the database table EPB_REFUND_POS has been changed after the initial delivery. This modification has been delivered with note 3322223. If this note has not been applied to your system, there would be negative impacts during system upgrades that should be avoided.

Solution

Description

You should prepare your system for the planned upgrade as described below. After upgrade, there are no more specific actions required in this context.

Required and recommended actions

If you want to upgrade your system (upgrade to higher support package or enhancement package within SAP ERP 6.0 or upgrade to any SAP S/4HANA release greater or equal 2022), you should consider the following:

(1) Make sure that the solution for energy price caps is supported by the target release you want to upgrade to. Information are provided in note 3279875.

(2) Make sure that note 3322223 is implemented or, precisely expressed, data element EPB_REFWERT has a length of 12. If not, please implement note 3322223 before performing any upgrade.

Business Process related information

The increased length of data elements EPB_REFWERT and EPB_BETRGEW became necessary to process values larger than initially considered.

Other Terms

EWPBG & StromPBG

61.11S4TWL - Monitoring Profile Value Import

Application Components:IS-U

Related Notes:
### Note Type | Note Number | Note Description
--- | --- | ---
Business Impact | 2270502 | S4TWL - Monitoring Profile Value Import

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

SAP EDM (Energy Data Management) provides a transaction for monitoring the import of profile data from external sources into the SAP EDM data repository. The former transaction EDM1 has been replaced by the new transaction EDM1N that provides more functional features, improved enhancement capabilities and improved user interfaces.

Usage of SAP EDM and specifically import of EDM profile data is indicated by entries in table EEDMIMPORTLOG_DB (checked via transaction SE16).

For using the new transaction EDM1N, activation of ISU_EDM_1 is required.

**Business Process related information**

No change in business process

| Transaction not available in SAP S/4HANA on-premise edition 1511 | EDM1 |

**61.12S4TWL - Utilities Customer Electronic Services (UCES)**

Application Components: IS-U

Related Notes:

| Note Type | Note Number | Note Description |
--- | --- | ---
Business Impact | 2270504 | S4TWL - Successor for Utilities Customer Electronic Services (UCES) |

**Symptom**
You are performing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Reason and Prerequisites**

This note is only relevant if you are using the SAP Netweaver JAVA component Utility Customer E-Service (UCES).

**Solution**

Functionality Utilities Customer Electronic Services (UCES) is not available in SAP S/4HANA 1511 and higher releases. Functional equivalent named SAP Multichannel Foundation for Utilities and Public Sector (SAP MCF) is available with SAP S/4HANA 1610 and higher releases.

Following UCES related transaction codes are not available anymore:

- EWEPIC_A_PAY
- EWEPIC_A_PAY_CIC
- EWEPIC_ACCT_INFO
- EWEPIC_CALLBACK
- EWEPIC_CH_MD
- EWEPIC_CH_MD_CIC
- EWEPIC_CONS_HIS_CIC
- EWEPIC_CONSUMP_HIST
- EWEPIC_CONTINUE
- EWEPIC_CPUSER
- EWEPIC_ENROLL_CIC
- EWEPIC_ENROLLMENT
- EWEPIC_HTMLBILL
- EWEPIC_INFO
- EWEPIC_INFO_CIC
- EWEPIC_LOGIN
- EWEPIC_METER_CIC
- EWEPIC_METER_READ
- EWEPIC_MOVE_IN
- EWEPIC.Move OUT
- EWEPIC_PASSWD
- EWEPIC_PASSWD.NEW
- EWEPIC_PREM_SEL.CIC
- EWEPIC_PREMISE_SEL
- EWEPIC_SHOW_PROFILE
- EWEPIC TEMPLATE

SAP Multichannel Foundation for Utilities and Public Sector provides a set of standardized and reusable OData services that consist of self-service scenarios that enable customers to securely access and manage key account information and perform important
self-service activities online, like bill payment, entering meter readings, creating inquiries, sending requests to a utility company and so on. More information is available in the Innovation Discovery, innovation "SAP Multichannel Foundation for Utilities and Public Sector software and SAP S/4HANA: self-services for end customers”, link: https://go.support.sap.com/innovationdiscovery/#/innovation/6CAE8B26E4CB1EE5BEC CBB48AF5EF298

Other Terms

UCES, S/4HANA, MCF

61.13S4TWL - IS-U Stock, Transaction and Master Data Statistics (UIS, BW)

Application Components: IS-U

Related Notes:

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<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
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<tr>
<td>Business Impact</td>
<td>2270505</td>
<td>S4TWL - IS-U Stock, Transaction and Master Data Statistics (UIS, BW)</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

IS-U Stock and Transaction Statistics based on Logistics Information System (LIS) is not available within SAP S/4HANA, on-premise edition 1511. Successor functionality: CDS view based virtual data model for Utilities (see documentation https://help.sap.com/viewer/6b356c79dea443c4bbeaf0865e04207/1709%200000/en-US/dde1c356a3386a15e10000000a441470.html and https://go.support.sap.com/innovationdiscovery/#/innovation/6CAE8B27FCC31EE6A08 0E3EE0531B00) and SAP BW/4HANA content for Utilities (see documentation https://help.sap.com/viewer/06e872f914a44d77b6c692b0273ca400/1.0.1/en-US/a3e19257660b6c10e10000000a441470.html). Please check the documentation for the availability of the successors.

The corresponding functionality and transactions can be found in SAP Business Suite in the SAP Easy Access menu under "Utilities Industry" - "Information System" - "Utilities
Information System" - "Stock Statistics" and "Transaction Statistics", respectively. In SAP S/4HANA, "Stock Statistics" and "Transaction Statistics" are not available anymore. Following transactions are not available in SAP S/4HANA:

E135     Set up stock statistics
EP01     Customizing: Transaction Statistics
EP02     Customizing: Stock Statistics

Usage of UIS is indicated by entries in database tables TE789C and TE790C with ACTIVE field set to ‘X’. If no entries exist, this note is not relevant for you. The check can be done via transaction SE16.

Following BW Data Sources are not available anymore:
Stock and Transaction statistics (in brackets please find alternatives):
0UC_ISU_12 (0UCCONTRACT_ATTR_2)
0UC_ISU_13 (0UCINSTALLAH_ATTR_2)
0UC_ISU_14 (0UC_ISU_32)
0UC_ISU_15 (0UC_DEVINST_ATTR)
0UC_ISU_16 (0UC_SALES_STATS_02 or 0UC_SALES_STATS_03)
0UC_ISU_17 (0UC_SALES_STATS_02 or 0UC_SALES_STATS_03)
0UC_ISU_18 (0UC_DEVICE_ATTR and 0UC_DEVICER_ATTR)
0UC_ISU_19 (0UCDEVICE_ATTR)
0UC_ISU_20 (0UCDEVICE_ATTR)
0UC_ISU_22 (0BPARTNER_ATTR)
0UC_ISU_23 (0UC_ACCNTBP_ATTR_2)
0UC_ISU_24 (0UCCONTRACT_ATTR_2 and 0UCCONTRACTH_ATTR_2)
0UC_ISU_25 (0UCINSTALLAH_ATTR_2 or 0UCINSTALLA_ATTR_2)
0UC_ISU_26 (0UC_CONNNOBJ_ATTR_2)
0UC_ISU_27 (0UCPREMISE_ATTR_2)
0UC_ISU_28 (0UC_DEVLOC_ATTR)
0UC_ISU_30 (0UC_DEVICE_ATTR and 0UC_DEVICER_ATTR)
0UC_ISU_31 (0UC_INSTFACTS)

Master Data and attributes (in brackets please find alternatives):
0UC_ACCNTBP_ATTR (0UC_ACCNTBP_ATTR_2)
0UC_CONNNOBJ_ATTR (0UC_CONNNOBJ_ATTR_2)
0UC_INDSECT_TEXT
0UC_TRANSPORT_TEST
0UCCONTRACT_ATTR (0UCCONTRACT_ATTR_2)
0UCCONTRACTH_ATTR (0UCCONTRACTH_ATTR_2)
0UCINSTALLA_ATTR (0UCINSTALLA_ATTR_2)
0UCINSTALLAH_ATTR (0UCINSTALLAH_ATTR_2)
0UCPREMISE_ATTR (0UCPREMISE_ATTR_2)

Other (in brackets please find alternatives):
0UC_ISU_CONSUMPT_02 (Sales Statistics shall be applied)
0UC_ISU_CONSUMPTION (Sales Statistics shall be applied)

0UC_SALES_SIMU_02 (0UC_SALES_SIMU_01, 0UC_SALES_SIMU_03)

0UC_SALES_STATS_01 (0UC_SALES_STATS_02, 0UC_SALES_STATS_03)

Regarding BW extractors and data sources in other line of businesses and industry areas, please also refer to SAP note 2500202 of simplification item S4TWL - BW Extractors in SAP S/4HANA.

Other Terms
Utilities Information System, UIS

61.14S4TWL - IS-U Sales Processing

Application Components: IS-U

Related Notes:

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<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
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<tbody>
<tr>
<td>Business Impact</td>
<td>2270507</td>
<td>S4TWL - IS-U Sales Processing</td>
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</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

IS-U Sales Processing is not available within SAP S/4HANA, on-premise edition 1511.

Transactions ISU_SALES_QUOTATION - Create Sales Quotation - and ISU_SALES_ORDER - Create Sales Order - are not available in SAP S/4HANA.

Usage of IS-U Sales Processing is indicated by entries in database table ESALES_PRODSALES. If there are no entries, this note is not relevant for you.
61.15S4TWL - Marketing - IS-U Loyalty Program

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270509</td>
<td>S4TWL - Marketing - IS-U Loyalty Program</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

IS-U Loyalty Program is not available within SAP S/4HANA, on-premise edition 1511.

All functionality and transactions related to Loyalty Program are not available in SAP S/4HANA. Following transactions are not available in SAP S/4HANA:

- EBW_DQ_CS  Marketing: Consumpt. -> Delta Queue
- ECBWPP  Prepare Extrapolation Indexes

Usage of Loyalty Management is indicated by entries in table ELACC.

61.16S4TWL - Front Office (EC20) and CIC0 Configuration

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270510</td>
<td>S4TWL - Front Office (EC20) and CIC0 Configuration</td>
</tr>
</tbody>
</table>

Symptom
You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

IS-U Front Office (transaction code EC20) is not available within SAP S/4HANA, on-premise edition 1511.

The CIC Customizing Menu (area menu ISUCC) was removed with SAP S/4HANA, on-premise edition 1511 FPS 04/1610 FPS 02/1709 FPS 00. Please note that transaction CIC0 is not available within SAP S/4HANA, see note 2267412.

61.17S4TWL - GIS Business Connector

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270511</td>
<td>S4TWL - GIS Business Connector</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

IS-U GIS Business Connector is not available within SAP S/4HANA, on-premise edition 1511.

An indicator for usage of IS-U GIS Business Connector is the existence of entries in table GCCA.
61.18S4TWL - Enterprise Services for SAP for Utilities (IS-U)

Application Components: IS-U

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2270513</td>
<td>S4TWL - Enterprise Services for SAP for Utilities (IS-U)</td>
</tr>
</tbody>
</table>

**Symptom**

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

**Solution**

**Description**

The following Enterprise Services for SAP for Utilities (IS-U) are not available in SAP S/4HANA, on-premise edition 1511, and following releases:

- TEST_UtilitiesConnectionStatusChangeRequestConfirmation_Out
- TEST_UtilitiesConnectionStatusChangeRequestCancelRequest_In
- TEST_UtilitiesConnectionStatusChangeRequestRequest_In
- UtilitiesConnectionStatusChangeRequestConfirmation_In
- UtilitiesConnectionStatusChangeRequestCancelRequest_Out
- UtilitiesConnectionStatusChangeRequestRequest_Out
- UtilitiesTimeSeriesBundleItemCreateConfirmation_In
- UtilitiesTimeSeriesBundleItemCreateRequest_In
- UtilitiesTimeSeriesBundleItemCreateConfirmation_Out
- UtilitiesTimeSeriesBundleItemCreateRequest_Out

There is no precise check on the usage of obsolete Enterprise Services. Looking for service messages of these obsolete enterprise services in the monitoring transactions SXMB_MONI (using Monitor for Processed XML Messages) and SRT_MONI indicates the usage.

Please check referenced notes 1541831 - UtilitiesConnectionProcessing enterprise services in EHP5 - and 1527380 - Deprecated ES, EHP6 for ERP, UtilitiesTimeSeriesProcessing - for detailed information.
61.19S4TWL - Central and Eastern European localization for Utility & Telco


Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2338097</td>
<td>S4TWL - Utility &amp; Telco related Business Functions</td>
</tr>
</tbody>
</table>

Symptom

You are doing a system conversion to SAP S/4HANA, on-premise edition. The following SAP S/4HANA Transition Worklist item is applicable in this case.

Solution

Description

As of SAP S/4HANA 1610 (components FI-CA 801 and IS-UT 801) the localization Add-On CEEISUT for Telco and Utilities industries is retrofitted into SAP S/4HANA - see the release strategy SAP Note 1014997. Appends of DDIC objects enhancing core structures and tables shipped with the CEEISUT have become switchable. Therefore it is necessary to have these Switches switched on (in active state) before upgrade to S/4HANA in order to avoid any data loss.

A customer using CEEISUT need to ensure that a dedicated Business Function Set is active before he converts his system to SAP S/4HANA - either UTILITIES or TELCO.

The related pre-check (see the SAP Note 2314696) raises an error when CEEISUT Add-On is installed and none of the following Business Function Sets is in active state or any its underlying object (Business Function, Switch, Package) is not present in an active version in a system or any of Business Functions or Switches is not in active state. See the hierarchy of both Business Function Sets below.

Business Function Set 'UTILITIES':

- Business Function /SAPCE/ISU_LOC_CEE
  - Switch /SAPCE/ISU_LOC_CEE_SFWS_02
    - Switch Package /SAPCE/IU_LOC_CEE_SFWS_02
  - Switch /SAPCE/FICA_LOC_CEE_SFWS_02
- Switch Package SAPCE/FK_LOC_CEE_SFWS_02
  - Business Function ISU_UTIL_WASTE
    - Switch /SAPCE/ISU_LOC_CEE_SFWS_01
      - Switch Package /SAPCE/IU_LOC_CEE_SFWS_01
    - Switch /SAPCE/FICA_LOC_CEE_SFWS_01
      - Switch Package /SAPCE/FK_LOC_CEE_SFWS_01

Business Function Set 'TELCO':

- Business Function /SAPCE/TEL_LOC_CEE
  - Switch /SAPCE/FICA_LOC_CEE_SFWS_02
    - Switch Package /SAPCE/FK_LOC_CEE_SFWS_02
- Business Function /SAPCE/TEL_LOC_CEE_HIDDEN
  - Switch /SAPCE/ISU_LOC_CEE_SFWS_01
    - Switch Package /SAPCE/IU_LOC_CEE_SFWS_01
- Business Function RM_CA
  - Switch /SAPCE/FICA_LOC_CEE_SFWS_01
    - Switch Package /SAPCE/FK_LOC_CEE_SFWS_01

Business Process related information

No influence on business processes and custom code.

Required and Recommended Action(s)

Execute related pre-check (see the SAP Note 2314696) on SAP Business Suite start-release.

Other Terms

S4TWL, S4TC, CEEISUT, Pre-Check Class, SAP IS-UT CEE
62. SAP Ariba

62.1 S4TWL - Ariba Cloud Integration

Application Components: BNS-ARI-TRF

Related Notes:

<table>
<thead>
<tr>
<th>Note Type</th>
<th>Note Number</th>
<th>Note Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Impact</td>
<td>2400737</td>
<td>Ariba Cloud Integration Solutions for SAP: Supported SAP Product Versions</td>
</tr>
</tbody>
</table>

Symptom

1. You are planning to use SAP and Ariba Solutions integrated with Integration Adapters provided by the SAP Ariba Cloud Integration program, or you are already live with it and are considering an upgrade of one of the solutions. To plan your project, you need to know the supported versions and constraints with respect to upgrades.

2. During upgrade or conversion check, an error is issued in check class CLS4SIC_ARIBA_CI_CHECK (RC = 7): Go to Solution -> Information for upgrade and conversion

Reason and Prerequisites

You are using or you are planning to use the Ariba Cloud Integration Solution (CI), that you can download from Ariba Connect. Or you are planning to use the Ariba Cloud Integration Gateway (CIG) Add-On for SAP ERP or S/4HANA.

This note is not relevant for integration solutions provided by the 'Ariba Integration Suite' (Add-On) that you can download from the SAP Service Marketplace.

Solution

The following SAP Product versions are supported with Ariba Cloud Integration:

<table>
<thead>
<tr>
<th>CI-Version</th>
<th>CI-6</th>
<th>CI-7</th>
<th>CI-8</th>
<th>CI-9 SP1</th>
<th>CI-9 SP2 #</th>
<th>CIG*</th>
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</thead>
<tbody>
<tr>
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</table>

* Note that some integration scenarios require a minimum EHP Version. Refer to the documentation of your CI Version X on the required EHP Versions for scenarios in your implementation scope.

You must not use an Ariba Cloud Integration Version with a non-supported SAP Product Version.

**IMPORTANT**: Consider the following information if you are planning to upgrade your SAP Product.

If you haven't done this already, you should consider upgrading to the Ariba Cloud Integration Gateway (CIG). This will avoid the potential conflicts described below. CIG is the unique integration solution going forward and no further development for other solutions will be made, and product maintenance will be ending after a certain period.

**Information for upgrade and conversion**

- You can only upgrade to a SAP Product Version that is supported by the Ariba Cloud Integration program. Some integration scenarios will be broken if you upgrade to a non-supported SAP Product Version. Support is not granted by SAP Ariba for any inquiries related to such incidents.
- SAP Ariba delivered the Cloud Integration programs (CI-9) through SAP transport files within an exclusive namespace registered with SAP. The solution is supported by SAP Ariba as per the Ariba Support policy (see section below 'Supported Versions for CI'). However, due to the nature of transport objects, the programs are considered as customer objects during upgrade with Software Update Manager (SUM). During the upgrade, you have to ensure that Ariba Objects including table contents are retained. Due to their origin from transport files, Ariba Objects can get deleted during an upgrade. To avoid this, make sure that note 2402191 is applied in your system, if you want to continue using this solution.
- During upgrades and conversions, a detailed check is executed by Software Update Manager (SUM). In case that CI objects can be found in the system, that have been imported through
transport files (for example CI-9), the check returns error code RC = 7. In this case, you have to confirm that you have either migrated to CIG already or that you have run the report attached to note 2402191. You can confirm this by adding an exemption to the check result. This procedure is described in detail here: https://blogs.sap.com/2018/03/26/sap-s4hana-simplification-item-check-how-to-do-it-right/

- After you have migrated to CIG, you do not longer need to run run the report attached to note 2402191 prior to upgrades. CI objects, that have been imported through transport files (for example CI-9) will be deleted during the next upgrade.

# Supported Versions for CI:

With SAP’s standard integration platform released with SAP Ariba Cloud Integration Gateway (CIG) to integrate SAP Ariba solutions with SAP ERP systems, previous integration tools such as Cloud Integration (CI) and Business Suite Add-On are no longer available for new installations and no further enhancements will be made. At this time, only CI-9 version is the only supported version for break fixes while previous CI versions are deprecated and no longer supported.

* CIG Support Pack - Support Policy:

To adhere with the standard SAP support model, SAP Ariba will only support the current (version N) and the version preceding the current version (version N-1) for the SAP Ariba Cloud Integration Gateway. CIG has 3 components ARBCI1, ARBCI2 & ARBCIGR and each of these components could be at different SP level. Current version is determined from the component with highest Support Pack level.

For example, with the support package SP 0008 release, ARBCI1 is SP008 while ARBCI2 is SP006 and ARBCIGR is SP0001 and SAP Ariba supports the following versions:

- Current released version (version n) – for example, ARBCI1: SP 0008
- Preceding released version (version n-1)– for example, ARBCI1: SP 0007

SAP Ariba recommends that customers must always upgrade to the latest SP release that is available at GA (General Availability) / RTC (Released To customer). The new releases always include additional enhancements and new features and customers can benefit from these functionalities.

Other Terms

Cloud Integration CI-9 CI-8 CI-7 CI-6 Upgrade CIG SI01 Ariba Cloud Integ