



Upgrade and Update Guide SAP Enhancement Package 1 for SAP Supply Chain Management 7.0

For:

- SAP SCM
- ABAP
- Upgrade
- Enhancement Package Installation

Target Audience

- System Administrators
- Technology Consultants

PUBLIC

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Document History



CAUTION

Before you start the implementation, make sure you have the latest version of this document.

You can find the latest version at the following location: <http://service.sap.com/instguides>.

The following table provides an overview of the most important document changes.

Version	Date	Description
1.0	2012-04-02	First version

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1 Getting Started

This section of the guide contains important information that you need to read before starting your update or upgrade process.

1.1 Naming Conventions

SAP SCM System and SAP System

In this document, the term “SAP system” is the same as “SAP SCM system”. SAP is also used as a synonym for SAP SCM in terms such as “SAP start profile” or “SAP system language”.

SAP liveCache and SAP liveCache technology

As of SAP SCM 5.0, the “SAP liveCache” is renamed to “SAP liveCache technology”. In this document, the short form “SAP liveCache” or “liveCache” is used.

SAP NetWeaver Application Server, SAP Web Application Server, and SAP Basis

SAP NetWeaver 7.0 renames SAP Web Application Server as SAP NetWeaver Application Server. In releases before 6.10, the component had been called SAP Basis. In this document, the terms are used as follows:

- The term “SAP NetWeaver Application Server” (or the short form “SAP NetWeaver AS”) is used when referring to Release 7.0 and higher.
- The term “SAP Web Application Server” (or the short form “SAP Web AS”) is used when referring to Releases between 6.10 and 6.40.

Usage of Release Names

Unless otherwise specified, the term “release” is used in the product-specific sections of this document to refer to the release of the SAP SCM system.

The following table explains which release of SAP Web Application Server or SAP NetWeaver Application Server corresponds to which release of SAP SCM:

SAP Web Application Server / SAP NetWeaver Application Server	SAP SCM
SAP Web Application Server 6.40	SAP SCM 4.1
SAP NetWeaver Application Server 7.0	SAP SCM 5.0, SAP SCM 5.1
SAP NetWeaver Application Server 7.0 including enhancement package 1	SAP SCM 7.0
SAP NetWeaver Application Server 7.0 including enhancement package 2	SAP SCM 7.0 including SAP enhancement package 1

1.2 Essential Information: Required Documentation

You are currently reading the *Upgrade and Update Guide - SAP Enhancement Package 1 for SAP Supply Chain Management 7.0*. This guide only contains information specific to SAP SCM, but you need additional information to enable you to perform your upgrade/update correctly.

This additional information is provided in the following documents:

- *Upgrade Master Guide for SAP enhancement package 1 for SAP SCM 7.0*. You **must** make sure that you have downloaded the latest version of this guide from the SAP Service Marketplace at: ► <http://service.sap.com/instguides> → Installation & Upgrade Guides → SAP Business Suite Applications → SAP SCM → SAP SCM Server → Using SAP enhancement package 1 for SAP SCM Server 7.0 ◀.
- *Update Guide – Update of SAP Systems Using Software Update Manager <latest version>*. The latest version of this guide is available on the SAP Service Marketplace at: ► <http://service.sap.com/sltoolset> → Software Logistics Toolset 1.0 ◀.
- **For SAPup tool:** *Upgrade Guide – SAP Supply Chain Management 7.0 Including SAP Enhancement Package 1 ABAP*. You can download it at: ► <http://service.sap.com/instguides> → Installation & Upgrade Guides → SAP Business Suite Applications → SAP SCM → SAP SCM Server → Using SAP enhancement package 1 for SAP SCM Server 7.0 → Upgrade Guides → Upgrade Guides - SAP SCM 7.0 EHP1 → SAP SCM 7.0 Including SAP Enhancement Package 1 Server ABAP → <Operating System> <Database> ◀.
- *Maintenance Planning Guide*. You can download it from SAP Service Marketplace at: <http://service.sap.com/mopz>, section *How-Tos and Guides*, to complement the required information.

Constraints

If you want to upgrade from a non-Unicode SAP system to a Unicode SAP system, you have to perform a special procedure named *Combined Upgrade & Unicode Conversion (CU & UC)*. For more information, see SAP Note [928729](#).



NOTE

An upgrade from a Unicode to a non-Unicode SAP system is not possible.

1.3 Important SAP Notes

SAP Notes for Preparing the Upgrade/Update

You must request the following SAP Notes from SAP Support Portal before you start the upgrade/update process:

- Central Software Update Manager Note (referenced in *Update Guide – Update of SAP Systems Using Software Update Manager <latest version>*)
- Application-specific upgrade Note (referenced in the table below)
- SAP Note for your database (referenced in *Update Guide – Update of SAP Systems Using Software Update Manager <latest version>*)

Since these SAP Notes are updated regularly, make sure that you always use the latest version.

Other SAP Notes

As well as the SAP Notes you need for the preparation, this document refers you to other SAP Notes that contain additional information. The following lists contain these SAP Notes:

SAP Notes for Preparing the SCM Upgrade

SAP Note Number	Title	Comment
1341981	Add. Info on Upgrade to SAP Enhancement Package 1 for SAP SCM 7.0	Contains application-specific information about the upgrade to SAP enhancement package 1 for SAP SCM 7.0
1334357	SCM Java components handling by the upgrade program	Contains additional information about upgrading Store User Interface for SCM or SCM Web Communication Layer for SAP Event Management

SAP Notes for SAP liveCache

SAP Note Number	Title	Comment
998966	Importing a liveCache version as of 7.7	Describes how to import an SAP liveCache patch of Version 7.7, provided that you already use version 7.7 (for example, with SAP SCM 7.0)
833216	Parameter values as of liveCache Versions 7.5, 7.6 and 7.7	Contains information about how to optimize the parameter settings for SAP liveCache
337445	liveCache and memory management	Provides additional information about liveCache memory management
487972	Operating system parametrization of liveCache	Contains information about how to make optimal settings for the operating system parameter for SAP liveCache
872653	Relevant CDP steps for SCM upgrade	Contains information on the CDP steps when upgrading SCM
1430481	Prerequisites for upgrading to SCM 7.01 (SCM 7.0 EHP1)	Describes the minimum requirements regarding the LCA build and liveCache for upgrading to SCM 7.01

Other SCM-Specific SAP Notes

SAP Note Number	Title	Comment
1250862	Enhancements to upgrade SCM F&R to Release 7.0 and higher	Provides additional enhancements to the upgrade of SCM Forecasting and Replenishment 5.1 to 7.0 and higher releases
1178483	SNC 7.0 Order Documents: Required Customizing	Contains information about the required Customizing settings for working with order documents

SAP Note Number	Title	Comment
915367	TDL: Automatic activation of the transaction data areas	Provides information about the settings you must make to automatically activate transaction data
865333	Upgrade assistant for macro books	Contains information about the function that makes macros from the source release work after an upgrade
865334	Macros in DP and SNP	Contains additional information you should consider regarding macros when you upgrade to SCM 5.0
505304	Disk space for Core Interface communication	Contains information about how to make sure there is sufficient disk space for communication through the Core Interface
210919	Collective Note: Logical system names	Contains additional information about how to deal with error message <i>B2001: Local logical system is not defined</i>
568289	Information about report /SAPAPO/MC01_CACL_FROM_R3	Contains additional information about the /SAPAPO/MC01_CACL_FROM_R3 report
428102	Performance: Loading planning area version	Contains information about how to optimize system performance when loading planning area versions
707828	Switching from old to new TLB planning	Provides information about using the old and the new Transport Load Builder (TLB) in upgrade systems
637515	Prerequisite for data migration of WFM Core into an add-on	Describes the prerequisites for transferring WFM Core data into an add-on system
426806	Memory problems when extracting data	Contains information on how to handle memory problems and /or performance problems when extracting data from a planning area
690692	Customer heuristics and processor-based setup logic	Provides information on the new processor based setup-logic
645719	Processor-based setup logic	Provides information on the new processor based setup-logic

2 Planning

2.1 Supported Source Releases

This section provides an overview of the supported upgrade and update paths to SAP enhancement package 1 for SAP SCM (SAP EHP1 for SAP SCM).

Before the update/upgrade, your SAP system must have one of the source releases that have been released for this update/upgrade and apply to all databases.



CAUTION

If you have to apply support package stacks to your source release shortly before the update/upgrade, check whether the equivalent Support Package for the target release is already available. Otherwise, this may delay your update/upgrade schedule.

Source Release	Support Package Level
SCM 4.1	SAP SCM 4.1 SP 4 SAP SCM BASIS 4.1 SP 4 SAP BASIS 6.40 SP 9 (ADA:10) SAP ABA 6.40 SP 9 (ADA:10) SAP BW 3.50 SP 9 BI_CONT 3.51 SP 3 PI_BASIS 2004_1_640 SP 6 ST-PI 2005_1_640 SP 8 EA-IPPE 300 SP 4 SAP liveCache: 7.5.00.18 LCA: 04 PL001
SCM 5.0	SAP SCM 5.0 SP 8 SAP SCM BASIS 5.0 SP 8 SAP BASIS 7.00 SP 11 (16 for MSSQL 2008) SAP ABA 7.00 SP 11 (16 for MSSQL 2008) SAP BW 7.00 SP 12 (16 for MSSQL 2008) BI_CONT 7.03 SP 4 PI_BASIS 2005_1_700 SP 11 LCAPPS 2005_700 SP 4 SAP_AP 7.00 SP 8 QIE 200 SP 4 ST-PI 2005_1_700 SP 2 EA-IPPE 400 SP 7 SAP liveCache: LC7.6.01.09 (SAP LC/LCAPPS 5.0 SP09)
SCM 5.1	SAP SCM 5.1 SP 1 SAP SCM BASIS 5.1 SP 3 SAP BASIS 7.00 SP 12

Source Release	Support Package Level
	SAP ABA 7.00 SP 12 SAP BW 7.00 SP 13 BI_CONT 7.03 SP 6 PI_BASIS 2006_1_700 SP 1 LCAPPS 2006_700 SP 1 SAP_AP 7.00 SP 9 QIE 200 SP 4 ST-PI 2005_1_700 SP 6 EA-IPPE 400 SP 8 SCMSNC 5.1 SP 1 SCEMSRV 5.1 SP 2 SCMBPLUS 5.1 SP 1 SCM EWM 5.1 SP 1 SAP liveCache 7.7.02 (SAP LC/LCAPPS 5.1 SP7)
SCM 7.0	SAP SCM 7.0 SP 2 SAP SCM BASIS 7.0 SP 2 SAP BASIS 7.01 SP 3 SAP ABA 7.01 SP 3 SAP BW 7.01 SP 3 BI_CONT 7.04 SP 2 PI_BASIS 701 SP 3 LCAPPS 2006_700 SP 1 SAP_AP 7.00 SP 14 QIE 200 SP 6 ST-PI 2008_1_700 SP 0 EA-IPPE 400 SP 13 SCMSNC 7.0 SP 2 SCEMSRV 7.0 SP 2 SCMBPLUS 7.0 SP 2 SCMEWM 7.0 SP 2 SAP_BS_FND 701 SP 2 SAP liveCache 7.7.04 29

Only valid for: Enhancement Package Installation;Upgrade |

2.2 Stopping the CIF Queues

Before performing a database backup, you have to stop the CIF queues in your SAP SCM system to ensure a consistent recovery state. To stop the queues, use the following reports in the SAP SCM system and all ERP systems (SAP R/3 or higher) connected, according to the queue type you are using:

- For outbound queues, use report RSTRFCQ1

Enter the following values:

- Parameter QNAME: **CF***
- Parameter Dest: **<Name of Logical System of receiving system>**
- Parameter FORCE: **<no entry required>**

2.3 Planning the Upgrade/Update of SAP liveCache and Optimizer

- For inbound queues, use report RSTRFCI.

Enter the following values:

- Parameter QNAME: **CF***
- Parameter FORCE: <no entry required>

To determine whether you are using inbound or outbound queues, call transaction CFC1 in the connected ERP systems and transaction /n/sapapo/c2 in the SAP SCM system.

If you are using outbound queues, you only need to stop the outbound queues. If you are using inbound queues, you have to stop both the inbound and outbound queues.

If your SAP SCM system is connected to other systems than ERP systems, for example, an SAP CRM or legacy system, make sure that these connections are stopped as well.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

2.3 Planning the Upgrade/Update of SAP liveCache and Optimizer

SAP liveCache

To upgrade the SAP liveCache, you have to perform a number of activities before, during, and after the upgrade of the SAP system. For example, you can upgrade the SAP liveCache only after the SAP liveCache transactional data has been saved. Therefore, one of the main activities is to download the transactional data before the SAP liveCache upgrade and upload the data before production operation resumes.

Report /SAPAPO/OM_LC_UPGRADE_70 lists all actions necessary to perform the upgrade. The activities are grouped in sections according to when they have to be performed:

- *Section A: Maximum Two Weeks Prior to Upgrade*
- *Section B: Immediately Prior to Downtime*
- *Section C: At End of Upgrade*
- *Section D: At Least Four Weeks After Upgrade*

Since most of the activities require user action, the report is not executed automatically. During the upgrade, SAPup stops and prompts you to execute the report whenever necessary.

If the activities cannot be performed at a given point in time, the pushbuttons are grayed out and become inactive.

Next to the pushbutton for the activity, you can find the following information:

- Related documentation

Using the information button you can get detailed information about how to proceed.

**CAUTION**

Read the documentation carefully. Some of the steps need certain input data or detailed preparations. For example, before deleting planning versions, you have to discuss with the application specialists which of the planning versions are no longer needed.

- Activity is mandatory/optional
Activities can be mandatory, recommended, or optional.
- Status information
Most activities have a traffic light indicating their status.

**CAUTION**

Not all traffic lights have to be green to successfully upgrade the SAP liveCache. If you do not perform an optional activity, it may have a yellow light. Traffic lights which had to be green before the upgrade may be red after the upgrade, for example, the traffic light for activating the logging.

Depending on the action you are performing, traffic lights in other sections may change to properly reflect the current status of the system.

**RECOMMENDATION**

To improve performance and to be able to work in parallel, it is useful to reserve some dialog processes for the preparation of the SAP liveCache upgrade.

SCM Optimizer

You also begin upgrading the Optimizer after the REQ_LCUPG phase has been completed. This phase must end before production startup. For more information about the procedure, see *Phase REQ_LCUPG: Upgrading SAP liveCache and Performing Additional Activities* [page 27].

End of: Enhancement Package Installation; Upgrade |

Only valid for: Upgrade |

2.4 Planning the Adjustment of the BW Authorizations

As of SAP SCM 5.0, there have been changes in the BW authorization concept. Since the upgrade does not change your current settings automatically, it may be necessary to adjust your authorizations to the new concept.

**CAUTION**

This may affect you even if you have not used the BW authorization concept. For more information, see SAP Notes [1152453](#) and [820183](#).

The BW authorization concept is mainly used in the Demand Planning area. However, you have to change some of the characteristics or maintained authorizations so that your authorizations work as usual after the upgrade. The following situations can occur:

2.5 Planning the Upgrade of DP/SNP Macro Books

- You are not using the BW authorization concept in Demand Planning.
In this case, you should decide if you either grant your Demand Planning users full access to all planning object structures (as in previous releases) including all InfoProviders, or set up restricted access to planning object structures by setting up the new NetWeaver BW Analysis Authorizations.
- You are using the BW authorization concept for Demand Planning.
In this case, you have to adjust some special characteristics and migrate your old authorizations after the upgrade.

For more information about the activities after the upgrade, see *Adjusting the BW Authorizations* [page 36].

For more information about using the BW authorization concept, see the SAP Library for SAP Supply Chain Management on SAP Help Portal at <http://help.sap.com/scm>, under ► *SAP Supply Chain Management (SAP SCM) → SAP Advanced Planning and Optimization (SAP APO) → Demand Planning → Technical Aspects of Demand Planning → Authorization in Supply Network and Demand Planning → Using the BI Authorization Concept in Demand Planning* ↵.

**RECOMMENDATION**

If you are using the BW authorization concept, be sure to familiarize yourself with the changes in the concept in time.

BI analysis authorizations that have not been properly maintained or migrated cause access problems to planning object structures and the InfoProvider.

For more information, see the SAP Library for SAP NetWeaver on SAP Help Portal at <http://help.sap.com/nw>, under ► *SAP NetWeaver → SAP NetWeaver by Key Capability → Information Integration by Key Capability → SAP Business Information Warehouse → Data Warehousing → Data Warehouse Management → Authorizations → Analysis Authorizations* ↵.

End of: Upgrade |

Only valid for: Source Release = SAP SCM 4.1 | Upgrade |

2.5 Planning the Upgrade of DP/SNP Macro Books

As of SAP SCM 5.0, Demand Planning (DP) and Supply Network Planning (SNP) contain new functions that make it necessary to introduce developments in the macro definition logic that are incompatible with existing macro definitions. This applies, for example, to distinguishing 0 and initial values in Interactive Planning.

To allow a smooth upgrade without the need for interaction during the upgrade process, we have introduced a compatibility mode for existing macro books. The Software Update Manager automatically enables the compatibility mode during the upgrade process for each macro book, thus allowing you to execute macros after the upgrade that you defined in previous releases. No manual interaction is necessary during the upgrade process.

There are several new developments in the target release which are, however, not (or only partly) available if the compatibility mode is enabled for the corresponding macro book, for example:

- Distinguish 0 and nothing values in Interactive Planning
- More stable macro logic by introducing key figure change modes in the macro definition logic
- Macro performance improvements



RECOMMENDATION

We strongly recommend that you deactivate compatibility mode in the target release to benefit from the new functions.

In most cases, deactivation of compatibility mode after the upgrade is possible without further manual adjustments to the macros, and you can immediately benefit from all new functions introduced with the target release. Whether compatibility mode can be safely deactivated after the upgrade or manual adjustments to macros may be needed, depends on the semantics of the existing macros. Therefore, you cannot use an automated tool to convert macro books to deactivate the compatibility mode.

To help you to analyze your macro books, you can use the *Upgrade Assistant* report /SAPAPO/ADV_UPGRADE_50. This report offers you the following assistance:

- It provides you with all necessary information to plan the upgrade of already existing macro books.
- It identifies macro books where compatibility mode can be safely deactivated after the upgrade without further manual adjustments to macros.
- It gives you essential hints on how to adjust macros manually to be able to deactivate compatibility mode.

You must run the *Upgrade Assistant* report **before** the upgrade so that you can determine how many macro books you have to adjust after the upgrade if you have deactivated compatibility mode. **After** the upgrade, you can run the *Upgrade Assistant* report to determine the current status of your macro books.

The *Upgrade Assistant* assigns one of the following three states to the macro books:

- Green light

This state can only occur after the upgrade.

A green light for a macro book is shown if you have deactivated compatibility mode and, if necessary, adjusted the macro.

- Yellow light

This state occurs before and after the upgrade.

- A yellow light before the upgrade indicates that you can perform the upgrade without any manual preparations. The Software Update Manager automatically enables the compatibility mode during the upgrade.
- A yellow light after the upgrade indicates that compatibility mode is still on for the macro book.

All further information and warning messages for the macro book provide information on whether manual activities may be necessary or if no further manual activities are necessary to deactivate compatibility mode after the upgrade.

■ Red light

This state can occur before and after the upgrade.

A red light is only displayed if you are using macro-functionality that is **not** officially released and supported. This means that you have somehow managed to bypass the macro syntax checks.

In this case, you must immediately adjust your macros, as using features that are not supported, can lead to instability or more serious errors on the source and the target release. You may not be able to generate macro books that display red lights on the source release in the target release.

For more information, see the relevant error message and SAP Notes [865333](#) and [865334](#).

Procedure

1. Run the *Upgrade Assistant* report /SAPAPO/ADV_UPGRADE_50.
2. Analyze the current status of your macro books and decide which macro books need adjusting after the upgrade.
 - You must adjust macro books with a red light after the upgrade at the latest. You should schedule some time for the adjustment.
 - You should analyze macro books with a yellow light to find out if you can safely deactivate compatibility mode or if you have to perform additional manual adjustments before deactivating.
 - You can safely deactivate compatibility mode after the upgrade in the following cases:
 - you have no macros in your macro book
 - your data view has no fixable key figure
 - your macros do not fix or unfix any fixable key figures

The upgrade assistant report provides information on how to identify these situations.

 - If you fix or unfix a fixable key figure with a macro or user exit macro, manual adjustments of these macros are necessary after the upgrade before deactivating compatibility mode.
 - If you are using obsolete interface parameters in a macro user function, you have to consider removing these obsolete interface parameters to fully benefit from the macro performance improvements. The adjustments can already be made before the upgrade.
3. If possible, remove red lights on macro books before the upgrade.



NOTE

Perform the manual adjustments determined in step (2) and deactivate the compatibility mode of the macro books after the upgrade. For more information, see the section *SAP SCM: Deactivating the Compatibility Mode for DP/SNP Macro Books* [[page 37](#)].

For more information about how to use the *Upgrade Assistant* report /SAPAPO/ADV_UPGRADE_50, see SAP Notes [865333](#) and [865334](#).

End of: Source Release = SAP SCM 4.1 | Upgrade |

3 Preparation

3.1 Free Space Requirements

Make sure that at least the following free space is available in the system that you want to update or upgrade:

System	Minimum Available Free Space
SUM Directory	Approximately 20 GB
Download Directory (temporary space requirement)	Approximately 10 GB
DIR_TRANS	Approximately 10 GB
Shadow System	Approximately the space required for your source release instance, that is, the size of the following directory: ■ UNIX: <code>usr/sap/<sapsid></code> ■ Windows: <code><drive>:\usr\sap\<sapsid></code> ■ IBM i: <code>usr/sap/<SID></code>
Free space in the database	Approximately 50 GB

[Only valid for: Enhancement Package Installation; Upgrade]

3.2 Meeting the Requirements for SAP liveCache

Procedure

Version and Restrictions in General

You require at least SAP liveCache server version 7.7.07.37 in the target release.

Before you start the upgrade program, make sure that the SAP liveCache Client has at least the following versions:

- 7.5.00.18 for SAP liveCache 7.5
- 7.6.00.22 for SAP liveCache 7.6
- 7.7.02 for SAP liveCache 7.7

For more information about additional restrictions, see SAP Note [1430481](#) *Prerequisites for upgrading to SCM 7.01 (SCM 7.0 EHP1)*.

If you need to update the SAP liveCache or LCA-build, proceed as described in the SAP liveCache upgrade document *Upgrade - SAP liveCache Technology on <OS> - SCM <Release>*. You can find the document on SAP Service Marketplace at ► <http://service.sap.com/instguides> → *SAP Business Suite Applications* → *SAP SCM* → *SAP SCM Server* → *Using SAP enhancement package 1 for SAP SCM Server 7.0* → *Upgrade Guides* ➔.

Version and Restrictions on Windows 32-BIT and Tru64

If you are using SAP liveCache on Windows 32-BIT or Tru64, which are no longer supported as of SAP liveCache 7.5, you have to install SAP liveCache 7.7 on a supported operating system before the upgrade. You can find a list of all supported SAP liveCache 7.7 platforms in the Product Availability Matrix (PAM) on SAP Service Marketplace at ► <http://service.sap.com/pam> → *SAP Application Components* → *SAP SCM* → *SAP SCM 7.0* → *Operating Systems* → *SCM LC* ◀ or in the corresponding SAP liveCache upgrade guide. To install SAP liveCache 7.7, proceed as described in the document *Installation – SAP liveCache Technology on <OS> - SCM <Release>*.

You can find the installation guide for SAP liveCache 7.7 on SAP Service Marketplace at ► <http://service.sap.com/instguides> → *SAP Business Suite Applications* → *SAP SCM* → *SAP SCM Server* → *Using SAP enhancement package 1 for SAP SCM Server 7.0* → *Installation Guides* ◀.

The downloaded transaction data is loaded to the newly installed SAP liveCache during the upgrade.

Only valid for: UNIX AIX; HP Tru64 UNIX; Solaris; HP-UX; Linux
--

Enhance System Variable for User <SID>ADM

As of SAP SCM 5.0, `disp+work` uses the new shared library `libSQLDBC77` of the SAP liveCache 7.7 client installation to connect to the SAP liveCache. To avoid problems when connecting, you need to enhance one of the system variables in the environment of user `<sapsid>adm`.

Proceed as follows:

1. To find out the independent program path (`<INDEP_PROG_PATH>`), enter the following command as user `<sapsid>adm`:

```
dbmccli dbm_getpath IndepProgPath
```

Depending on your operating system and processor, the path is either `<INDEP_PROG_PATH>/lib` or `<INDEP_PROG_PATH>/lib/lib64`.

2. In the environment of user `<sapsid>adm`, enhance the following system variable with the path to the shared library `libSQLDBC77` from step 1:

Only valid for: AIX

LIBPATH

End of: AIX

Only valid for: HP-UX

SHLIB_PATH

End of: HP-UX

Only valid for: HP Tru64 UNIX; Solaris; Linux

LD_LIBRARY_PATH

End of: HP Tru64 UNIX; Solaris; Linux

End of: UNIX AIX; HP Tru64 UNIX; Solaris; HP-UX; Linux
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End of: Enhancement Package Installation; Upgrade

Only valid for: Upgrade |

3.3 Making Preparations for SAP BW-Specific Objects

Before the preparation roadmap step, you have to prepare SAP BW-specific objects for the upgrade, as follows:

- Check the number ranges.
- Ensure that a logical system has been correctly defined for your production client.
- Check the InfoObjects and repair them, if necessary.

Procedure

Only valid for: Source Release = SAP SCM 4.1 |

Checking Number Ranges

To make sure that the number ranges have the right level, proceed as follows:

Only valid for: Source Release = SAP SCM 4.1 |

1. Call transaction **RSRV**.
2. Open ► *Tests in Transaction RSRV* → *All Elementary Tests* → *Master Data* ◀.
3. Select *Compare Number Range and Max. SID*.
4. Click the triangle icon to the left of the text *Compare Number Range and Maximum SID*, and choose the *All (Basis-) Chars.* radio button.
5. Choose the *Transfer* pushbutton.
6. Choose the *Execute* pushbutton.
7. If a red bullet is displayed in the column *Result*, there are inconsistencies. Choose *Correct error*.

End of: Source Release = SAP SCM 4.1 |

End of: Source Release = SAP SCM 4.1 |

Checking the Logical System

To prevent errors in the XPRAS phase, you must have a logical system name defined for your production client. Proceed as follows:

1. Log on to the SAP system.
2. Call transaction **SCC4** (*client maintenance*).
3. Select your production client.
4. Display the details.
5. Check that a logical system name is defined.

If a logical system is not defined, create and assign one before starting the upgrade.

For information about problems with logical system names, see SAP Note [210919](#).

Checking and Repairing InfoObjects

For more information about repairing inconsistent InfoObjects, see SAP Note [458363](#).

End of: Upgrade |

Only valid for: Source Release = SAP SCM 4.1 | Upgrade |

3.4 Activating Order Document Management Objects

If you are using order document management (ODM), you must activate inactive ODM objects before the upgrade.

Procedure

1. Call transaction `/SCMB/ODM_CHECK` and execute it to generate a list of inactive objects.
2. Generate and activate the inactive objects:
 - **Component**
 1. Call transaction `/SCMB/ODM_GEN_ORC`.
 2. Select *Force Generation*.
 3. Enter the respective components and choose the *Execute* pushbutton.
 4. Call transaction `/SCMB/ODM_ACT_ORC`.
 5. Enter the respective components and choose the *Execute* pushbutton.
 - **Order Data Type**
 1. Call transaction `/SCMB/ODM_GEN_ORDTP`.
 2. Select *Force Generation*.
 3. Enter the respective order data types and choose the *Execute* pushbutton.
 4. Call transaction `/SCMB/ODM_ACT_ORDTP`.
 5. Enter the respective order data types and choose the *Execute* pushbutton.
 - **Order Data Area**
 1. Call transaction `/SCMB/ODM_GEN_ORDA`.
 2. Select *Force Generation*.
 3. Enter the respective order data areas and choose the *Execute* pushbutton.
 4. Call transaction `/SCMB/ODM_ACT_ORDA`.
 5. Enter the respective order data areas and choose the *Execute* pushbutton.



NOTE

If this procedure does not activate all objects, use transaction `/SCMB/ODM_META_CFG` to resolve the remaining problems.

For more information about activating order data management objects, see SAP Note [1178483](#) and SAP Library at ► *SAP Supply Chain Management (SAP SCM) → SCM Basis → Order Document Management (ODM) → Activating Order Document Management* ◀.

End of: Source Release = SAP SCM 4.1 | Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

3.5 Adopting the Simulation Versions

The upgrade does not keep simulation versions. If you do not want to lose the changes stored in certain simulation versions, you must adopt them into the corresponding planning version before the upgrade.

Procedure

For more information and recommendations about how to proceed with simulation versions, see SAP Note [977644](#).

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

3.6 Preparing the Upgrade and Update for Forecasting & Replenishment

We recommend that you make a backup the data storage folder of Forecasting & Replenishment (F&R) before the upgrade or update. You then have to save it to the new folders after the upgrade, and run a report to convert the data.

Procedure

Back up all FRP data separated by FRP server and FRP server group.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Upgrade |

3.7 Meeting the Requirements for Workforce Management

As of SCM 5.0, the application Workforce Management is separated and transferred as an add-on solution. For the secure migration path, see SAP Notes [844745](#) and [637515](#).

End of: Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

3.8 Specifying the liveCache Execution Mode

If you have chosen the *manual selection* preconfiguration mode in phase PREP_CONFIGURATION/INITSUBST, a dialog box appears in which you have to specify the liveCache execution mode.

Procedure

Specify the liveCache execution mode when prompted by the Software Update Manager:

- If you want to enter the required data manually, select the *Prompt manually* execution mode and then choose *Continue*.
- If you want to run section B and section C of report /SAPAPO/OM_LC_UPGRADE_70 automatically, select the *Automatically run* execution mode and then choose *Continue*.

End of: Enhancement Package Installation;Upgrade |

4 Process

Only valid for: Enhancement Package Installation;Upgrade |

4.1 Running Report /SAPAPO/OM_LC_UPGRADE_70 – Section A

Before starting the upgrade using the Software Update Manager, you need to run report /SAPAPO/OM_LC_UPGRADE_70 and perform at least all mandatory activities of section A (see *SAP SCM: Planning the Upgrade of SAP liveCache and Optimizer* [page 11]). In the documentation of the report, all preparations necessary to upgrade SAP liveCache are listed.

The following activities are mandatory or recommended:

Activity	Mandatory/Recommended
Delete Download Table and Logs	Mandatory
Delete Superfluous Planning Versions	Recommended
Perform Consistency Check	Mandatory
Perform Consistency Check for APS Data	Mandatory
Perform liveCache/LCA Build Checks	Mandatory
Perform Consistency Checks DP/SNP Time Series a) Consistency Check DP/SNP Time Series (LC vs. APO-DB) b) Consistency Check SNP Time Series c) Consistency Check DP/SNP Time Series Networks (APO-DB vs. LC) d) Consistency Check DP/SNP Time Series (LC only)	Mandatory (the time that elapses between this check and section B of the report must be as short as possible)
Perform Consistency Check for Time Streams	Mandatory

Procedure

Report /SAPAPO/OM_LC_UPGRADE_70

1. In the SAP system, call transaction SE38.
2. Run report /SAPAPO/OM_LC_UPGRADE_70.
3. Perform all mandatory activities in *section A* (see below).
4. Check whether you can benefit from any of the recommended activities in this section and if yes, perform them.

A1 Delete Download Table and Logs

This activity is mandatory.

Logs or data from previous upgrades that still exist in the download table can cause problems. Therefore, you must delete this data.

A2 Delete Superfluous Planning Versions

This activity is recommended.



CAUTION

You must perform this step in agreement with the application specialists.

To minimize the upgrade time, make sure that only essential data is transferred. You must therefore delete any unrequired planning versions.

A3 Perform Consistency Check

This activity is mandatory.

Uploading inconsistent transactional data from the database following an upgrade can lead to various problems. You should therefore conduct a consistency check with transaction /SAPAPO/OM17, which is called once you choose the button for this step. Fill in the required fields and start the report. The report compares the SAP liveCache data to the data in the database. If necessary, correct the inconsistent data.

You must perform the consistency check immediately before the upgrade in every SAP liveCache-relevant client for every planning version, as the closer you run this check to the time of the upgrade, the more up-to-date the results become.

A4 Perform Consistency Checks for APS Data

This activity is mandatory.

You can use the program /SAPAPO/OM_CHECK_LIVECACHEDATA to check whether you have faulty data in your system.

You must delete any faulty orders and if required, use the connected system to import them again after the upgrade.

To delete orders, on the selection screen, select the *Delete Using DELETE Command* field. If the report finds faulty orders, select the orders that you want to delete and enter **DELETE** in the command field.

With release SCM 5.0, you can use the program /SAPAPO/OM_CHECK_LIVECACHEDATA. To delete faulty orders, mark the orders you want to delete and choose *Delete*.

If you really need the orders, you have to transfer them again after the upgrade from the connected OLTP system.

A5 SAP liveCache/LCA Build Checks

This activity is mandatory.

You need to analyze the SAP liveCache and the LCA builds well before the upgrade as well as directly after the upgrade. To do this, you can use transaction the /SAPAPO/OM13, which is called when you choose the button for this step. Pay special attention to whether red lights are displayed. An information pushbutton next to the red lights explains how you can eliminate them.

**CAUTION**

RFC connections containing errors must be corrected before an upgrade. For more information, see SAP Note [305634](#). Make sure that you use the user DDIC for the RFC connections.

Since only a limited number of partial checks are performed in the overview, a green light is never displayed.

A6 Perform Consistency Check for DP/SNP Time Series

This activity is mandatory.

The time that elapses between this check and *section B* of the report should be as short as possible. Once this step has been executed successfully, you must no longer make changes to planning areas (for example, changes to initialization horizons of planning areas, changes to initialization horizons of key figures, or changes to planning object structures). If you make changes to planning areas after performing this step, you must execute this step again.

A6 a) Perform Consistency Check for DP/SNP Time Series (LC vs. APO-DB)

In this step, the report /SAPAPO/TS_LCM_REORG is called. You must execute it using the *repair* option for each planning version. This reports checks the consistency of Demand Planning data stored in SAP liveCache as opposed to the data stored in the APO database. The main aim of this report is to check the existence of a corresponding record in the APO database for each object stored in SAP liveCache.

A6 b) Perform Consistency Check for SNP Time Series

In this step, the report /SAPAPO/TS_LCM_REORG_SNP is called. You must execute it using the *repair* option for each initialized SNP planning area.

**CAUTION**

Planning areas might be initialized for several planning versions.

A6 c) Perform Consistency Check for DP/SNP Time Series (APO-DB vs. LC)

In this step, the report /SAPAPO/TS_LCM_CONS_CHECK_ALL performs several checks concerning the integrity of the Demand Planning and Supply Network Planning data stored in the APO database. In addition, it checks the consistency of the related data stored in SAP liveCache. If it reports inconsistencies, you have to correct these inconsistencies manually, using the report /SAPAPO/TS_LCM_CONS_CHECK for the affected planning areas.

A6 d) Perform Consistency Check for DP/SNP Time Series (LC only)

In this step, the report /SAPAPO/OM_TS_LCCONS is called. This report checks the time series network, logical consistency, and data consistency of time series objects in SAP liveCache. You must execute the report with all three types of consistency checks in *check* mode for all existing planning versions. It is possible to parallelize the report per planning version. In case of reported errors, stop with the process and open a customer message on component BC-DB-LCA-DP.

A7 Perform Consistency Check for Time Streams

This activity is mandatory.

The report starts a batch job for each planning version in all SAP liveCache-relevant clients. This report checks and corrects time streams. You can find the log file in the application log with object APO and subobject UPGRADE.



RECOMMENDATION

If you want to administer your SAP liveCache with DBMGUI from a Windows PC, install the database manager GUI, which you can find on the SAP liveCache CD under

<CD drive>:\LC_WINDOWS_<processor>\SETUPS\DBM76.EXE

For the latest version of the database manager GUI, see SAP Service Marketplace at ► <http://service.sap.com/patches> → *Additional Components* → *MaxDB* → *MaxDB GUI COMPONENTS/TOOLS* ◀.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

4.2 Phase REQ_APOUPG<X>: Running Report /SAPAPO/OM_LC_UPGRADE_70 – Section B

During phase REQ_APOUPG<x>, where <x> depends on your chosen upgrade strategy and archiving strategy, you perform all activities necessary to prepare the SAP liveCache for the SAP system downtime and upgrade phase REQ_LCUPG, during which the SAP liveCache upgrade is performed.

The activities are listed in section B of report /SAPAPO/OM_LC_UPGRADE_70 (see *SAP SCM: Planning the Upgrade of SAP liveCache and Optimizer* [page 11]). The following activities are either mandatory, or recommended:

Activity	Mandatory/Recommended
Download SAP liveCache data	Mandatory
Stop SAP liveCache	Mandatory
Complete backup	Recommended

Procedure

Report /SAPAPO/OM_LC_UPGRADE_70

1. Call transaction SE38 in the SAP system.
2. Run the report /SAPAPO/OM_LC_UPGRADE_70.
3. Perform all mandatory activities of section B (see below).
4. Check whether you can benefit from any of the recommended activities in this section (see below) and, if yes, perform them.

B1 Download SAP liveCache Data

This activity is mandatory.

4.3 Phase REQ_LCUPG: Upgrading SAP liveCache and Performing Additional Activities

SAP liveCache transaction data is downloaded in parallel for all selected planning versions, and if desired, cross-client as well.

Ensure that there are enough dialog processes available (at least MAXCPU + 3 processes), so that you can minimize the total runtime.

To download the SAP liveCache data, choose the corresponding pushbutton.

You can view the logs by choosing *Load Old Log*.

You must not delete the logs until several weeks after the upgrade. This makes it easier for SAP Support to find errors if upgrade problems occur.

B2 Stop SAP liveCache

This activity is mandatory.

After successfully downloading the SAP liveCache data (verify that the download processes are completed and there are no changes to the transaction data in the system), stop the SAP liveCache. Before successfully comparing the SAP liveCache data with the download in section C, changes to the transaction data are not allowed, otherwise data can be lost. Such changes are, for example, in Demand Planning initializing planning areas or changing the initialization horizon of planning areas or key figures, changes to the planning object structure, as well as the execution of consistency checks with the repair option. In addition, all write transactions and consistency checks of the other applications (such as /SAPAPO/OM17, CIF delta report, and others) must not be executed.

To stop the SAP liveCache, choose ► *LCA* → *Administration* → *Operating* ⚡ and then choose the *Stop liveCache* pushbutton.

B3 Complete Backup

This activity is recommended.

Perform a complete backup of SAP liveCache data, as described in the SAP liveCache documentation. Also, perform a complete backup of the SCM database.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

4.3 Phase REQ_LCUPG: Upgrading SAP liveCache and Performing Additional Activities

You start the SAP liveCache software and Optimizer upgrade during this phase.



CAUTION

To enable you to switch from a non-liveCache platform (32-bit Windows; Tru64) to a SAP liveCache platform while installing a new SAP liveCache during your SAP SCM upgrade, you must make sure that the follow-up processing field in transaction LC10 is empty before initializing the new SAP liveCache. To check this, call transaction LC10 and choose ► *Integration* → *Reports* → *Initialize liveCache* ⚡.

To upgrade the SAP liveCache, you must install the SAP SCM 7.0 EHP1 version of the SAP liveCache software as described in the document *Upgrade - SAP liveCache Technology on <OS> - SCM <Release>*. You do not need to uninstall the old version of the SAP liveCache software.

If you use your SAP liveCache on a platform that is no longer supported, such as Windows 32-BIT or Tru64, you have to reinstall SAP liveCache 7.7 on a supported platform. In this case, you do not have to upgrade the SAP liveCache. When you update the connectivity information in section C1 of the report `/SAPAPO/OM_LC_UPGRADE_70`, the transactional data is loaded to the newly installed SAP liveCache.

**CAUTION**

If you have included additional Support Packages in the upgrade, you may have to update SAP liveCache and the Optimizer to the corresponding versions. For more information, see SAP Service Marketplace at ► <http://service.sap.com/sp-stacks> → *SP Stack Information* → *SP Stack Schedule* ◀.

If you update SAP liveCache, you must do so before initializing SAP liveCache.

After installing SAP liveCache using at least version 7.7.07.37, upgrade the database client software for the host where the SAP central and dialog instances are running. For more information, see the document *Upgrade - SAP liveCache Technology on <OS> - SCM <Release>*. After that, run the report `/SAPAPO/OM_LC_UPGRADE_70` and perform all mandatory activities in section C (see *SAP SCM: Planning the Upgrade of SAP liveCache and Optimizer* [page 11]). Make a complete backup of the SAP liveCache data and reinstall the Optimizer.

Procedure**Upgrade SAP liveCache 7.7**

Only SAP liveCache Version 7.7 is supported for SAP SCM 7.0 EHP1. If you want to use the SAP liveCache recovery functions productively, note the following points regarding your SAP liveCache upgrade:

- Log and data devices must be located on separate disks.
- SAP liveCache on UNIX strongly recommends devices as raw devices for production operation.
- For production operation, you require a directory in the file system for intermediate backups of the log backups. This directory must contain free space that is twice the size of the log devices.

■ Only valid for: UNIX |

When upgrading SAP liveCache on UNIX:

The size of the file system is limited by default to 2 GB for the supported UNIX operating systems. You can only increase this when creating the file system. The size of an SAP liveCache core dump can match the size of the SAP liveCache main memory, which is not limited to 2 GB.

For this reason, set the default value for the size of the SAP liveCache directory into which the core files are written, as well as the corresponding file system, to at least the size of your SAP liveCache main memory.

4.3 Phase REQ_LCUPG: Upgrading SAP liveCache and Performing Additional Activities

The procedure for each operating system is described in SAP Note [429215](#).

End of: UNIX |

The procedure for upgrading the SAP liveCache is described in the document *Upgrade - SAP liveCache Technology on <OS> - SCM <Release>*. You can find the document on SAP Service Marketplace at <http://service.sap.com/instguides> → *SAP Business Suite Applications* → *SAP SCM* → *SAP SCM Server* → *Using SAP enhancement package 1 for SAP SCM Server 7.0* → *Upgrade Guides* ↩.

Only valid for: IBM i5/OS |

Set Parameter BATCH_HOST and Inactivate the Batch Capacity of the Central Instance

During downtime, the upgrade has changed the parameter BATCH_HOST. You must set it again to the name of the Windows Application Server with the new kernel of release 7.0.

1. Call R3up 'set stdpar' in the host where you are running the upgrade.
2. Enter the name of the upgrade directory.
3. When the program asks for the name of the BATCH_HOST, enter the name of your Windows Application Server. In addition, you must deactivate the batch capacity of your central instance. Batch processes must run on the Windows Application Server.
4. Stop your central instance, change the profile value `rdisp/wp_no_btc` in `/usr/sap/<SID>/SYS/profile/<SID>_DVEBMGSnn_<HOSTNAME>` to 0.
5. Start the central instance again.

End of: IBM i5/OS |

Only valid for: IBM i5/OS |

Upgrade Your Dialog Instance on the Windows Application Server

All transactions used in relation to the SAP liveCache must be executed on the Windows Application Server. Therefore, before you can initialize the SAP liveCache, you have to upgrade at least one dialog instance on a Windows Application Server. Proceed as follows:

1. To upgrade the dialog instance, replace the old kernel by a new kernel for release 7.0 (kernel for Windows).
2. Define the new environment variable `DIR_LIBRARY_RMT = /usr/sap/<SID>/SYS/exe/run`.

For more information about setting environment variables for the SAP kernel, see SAP Note [31559](#).

End of: IBM i5/OS |

Load Transaction Data

1. Call transaction SE38 in the SAP system.
2. Run the report `/SAPAPO/OM_LC_UPGRADE_70`.
3. Perform all mandatory activities from section C (see below) in the right order.
4. Check whether you can benefit from any of the recommended or optional activities in the table below and if so, perform them.

Activity	Mandatory/Recommended/Optional
Log Off and Start SAP liveCache	Mandatory

4.3 Phase REQ_LCUPG: Upgrading SAP liveCache and Performing Additional Activities

Refresh Database Statistics	Mandatory
Load Master Data	Mandatory
Upload SAP liveCache Data	Mandatory
Compare SAP liveCache with Download	Optional
Convert Transport Requests	Mandatory if you are using TPVS
Perform SAP liveCache/LCA Build Checks	Mandatory
Activate Logging	Mandatory
Complete Backup	Mandatory
Start CIF Queue	Recommended

**CAUTION**

You only need to perform the following step if you repeat section C:

Before you initialize the SAP liveCache, you must clear the program name of the follow-up report for initialization in transaction LC10 for the connection LCA. Otherwise, all transaction data in the database is deleted.

C1 Log Off and Start SAP liveCache

This activity is mandatory.

**NOTE****Activities C2 to C6:**

If you mark all checkboxes for these activities, they are processed in a row without further user input.

C2 Refresh Database Statistics

This activity is mandatory.

Refresh the database statistics.

**NOTE**

Refreshing database statistics before uploading the SAP liveCache data considerably reduces the time needed for the upload.

C3 Load Master Data

This activity is mandatory.

The program /SAPAPO/UPGRADE_LC_ANCHORS creates the master data in the SAP liveCache.

To create the master data, choose the corresponding pushbutton.

C4 Upload SAP liveCache Data

This activity is mandatory.

SAP liveCache transaction data is uploaded in parallel for all selected planning versions, and if required can be also performed cross-client.

Ensure that there are enough dialog processes available (at least MAXCPU + 3 processes), so that you can minimize the total runtime.

To start the upload, choose the corresponding pushbutton. You can view the logs in the spool orders by choosing *Load Old Log*.

Do not delete the logs until several weeks after the upgrade. This makes it easier for SAP Support to find errors in case problems arise after the upgrade.

**CAUTION**

Do **not** perform any changes in the application environment until the upload of the SAP liveCache data (C5) and the subsequent compare of the SAP liveCache data with the download (C6) have finished successfully and no errors have been reported.

If you perform changes in Demand Planning or Supply Network Planning before the compare has finished successfully, for example, you deinitialize or initialize planning areas or perform consistency checks, you lose data.

C5 Compare SAP liveCache with Download

This activity is optional.

Data previously stored in the database is compared with the current data in the SAP liveCache to ensure its consistency.

To start the comparison, choose the pushbutton for the step.

**CAUTION**

The data comparison can take nearly as long as the download itself.

C6 Convert Transport Requests

This activity is only mandatory if you are using Transportation Planning/Vehicle Scheduling (TP/VS) planning after the upgrade.

The report does the following:

- It converts the TP/VS shipment from the old model to the model in release 7.0. The conversion is performed automatically for all planning versions in all SAP liveCache-relevant clients. If you have not used TP/VS planning in the source release or if no shipments exist in the source system, this step only takes a few seconds.
- It updates the TP/VS order selection database table. The update is performed automatically for all orders relevant for TP/VS planning in all SAP liveCache-relevant clients. This step may take a long time if the order volume is large.

If errors occur, see the application log. To call up the application log, use the following parameters:

Object	SAP SCM
Subobject	UPGRADE
Program	/SAPAPO/VS_OM_UPGRADE_SCM_70

C7 Perform SAP liveCache/LCA Build Checks

This activity is mandatory.

You must analyze the SAP liveCache and the LCA build objects using transaction LCA13 directly after the upgrade. In particular, pay attention to whether red lights are displayed. An information pushbutton next to the red lights explains how you can eliminate them.

Since only a limited number of partial checks are performed in the overview, a green light is never displayed.

C8 Activate Logging

This activity is mandatory.

To improve performance of the uploads, SAP liveCache logging is deactivated during the upgrade. After the upgrade, you have to activate SAP liveCache logging and start SAP liveCache. If you choose *Activate Logging*, SAP liveCache logging is activated and the SAP liveCache is started automatically.

C9 Complete Backup

This activity is mandatory.

Perform a complete backup of SAP liveCache data as described in the SAP liveCache documentation.



CAUTION

If problems occur, you may need to repeat section C and initialize the SAP liveCache again. Before initializing the SAP liveCache, make sure that field *Flw-up Procg* in transaction ► LC10 → *Administration Report* → *Initializing liveCache* ◀ is **empty**.



RECOMMENDATION

Performing a complete backup of the SAP SCM database is also recommended.

C10 Start CIF Queue

This activity is recommended.

Depending on the configuration, the transfer of entries in CIF queues may be terminated in the connected ERP systems.

Therefore, you need to start the program /SAPAP0/RCIFRESTART. This updates the transfer that has been interrupted.

Upgrade the Optimizer

To upgrade the Optimizer to the required version, you simply install the new version of the Optimizer. There is no need to delete the old Optimizer.

For a detailed description of the installation, see the document ► *Installation Guide – SAP SCM Optimizer for SAP SCM 7.0 Including SAP Enhancement Package 1 on <OS>* ◀. This document contains all the necessary steps and information about supplementary SAP Notes.

You can then continue with the SAP system upgrade.

End of: Enhancement Package Installation; Upgrade |

5 Follow-Up Activities

Only valid for: Enhancement Package Installation;Upgrade |

5.1 Actions for SAP liveCache

After the upgrade and before starting production operation of the system, you need to make some preparations for restarting SAP liveCache.

Procedure

Create an SAP liveCache Backup

Before you resume production operation, make a complete backup as a basis for any recoveries that may be required.

You need to back up the log files during production operation. If a log full situation arises, processing of the SAP liveCache transaction is stopped until the log file has been backed up.



RECOMMENDATION

Use the autosave log functions to stop SAP liveCache hanging.

Central Authorization and Alert Monitor

Before restarting production operation, make sure that the central authorization and alert monitor have been reactivated.

Reactivate Interrupted CIF Activities

After the SAP system upgrade, you have to perform a number of activities. One of these activities is to reactivating interrupted CIF activities after SAP liveCache crashes or after SAP SCM system upgrades. You can use the report /SAPAP0/RCIFRESTART to reactivate the CIF activities.

This program performs the following steps:

- Look for change of pointer entries in SAP SCM that indicate that the publication of planning results could not be terminated successfully.
- Look for CIF outbound queue entries (from SAP SCM to ERP systems) that have not been executed successfully and restart them.
- Restart the SAP SCM CIF inbound queues if any transfers to SAP SCM have not yet been processed.
- Determine the names of ERP systems integrated with this SAP SCM system.
- Restart the CIF outbound queues that point to this SAP SCM system.

Only valid for: IBM i5/OS |

SAP liveCache Access from IBM i5/OS Application Servers

As of SAP SCM 5.0 SP 3, you can configure your IBM i5/OS application servers to have direct access to the SAP liveCache. For more information, see SAP Note [1037016](#).

End of: IBM i5/OS |

End of: Enhancement Package Installation; Upgrade |

Only valid for: Source Release = SAP SCM 4.0 |

5.2 Performing Sequence-Dependent Setup Activities

In Release SAP SCM 4.0 (Support Package 04), the setup logic, namely the procedure used by the system to calculate the sequence-dependent setup activities, was changed. The display of the sequence-dependent setup activities in the detailed scheduling planning board was adjusted accordingly. The new setup logic is delivered as standard as of Release **SAP SCM 4.1**.

Unlike the previous setup logic that was based on the start dates/times of the setup activities, the sequence of operations on a resource is now determined by the start dates/times of the processing activities. Using this sequence, the system uses the setup matrix to calculate the necessary setup activities with the corresponding duration. The system creates the setup activities with the calculated duration. The advantage of this procedure over the previous procedure is that the sequence of the operations no longer changes - even if an operation received an earlier start date/time as a result of the setup. This is because it is the start date/time of the processing activities that is significant for the sequence of the operations. This makes the planning situation remain stable.

The new setup logic is based on two principles:

- The sequence of the operations is based on the start dates/times of the processing activities. The setup activities do not have an important role in planning.
- When rescheduling, the planning situation must be changed as little as possible. If, for example, the predecessor of an operation is changed, if possible, the operation itself must not be rescheduled - only the setup time must be recalculated.

Procedure

Display

As the display of the sequence-dependent setup activities in the detailed scheduling planning board has been changed, note the following:

- The sequence-dependent setup activities are displayed using a narrow bar.
- When moving an operation using a sequence-dependent setup activity, the phantom object is only determined by the activity types, processing, tear down, and queue. The setup activity is no longer taken into account.
- The display of the non-sequence-dependent setup activities remains unchanged.

Existing Data

5.2 Performing Sequence-Dependent Setup Activities

- The new setup logic is delivered as standard as of SAP SCM 4.1. The previous setup logic has been deactivated. All new resources are created with the new setup logic. With the upgrade to SAP SCM 4.1 and higher, all currently existing resources are automatically converted to the new setup logic. Here, you have to pay attention to the following:
 - You have to adjust your existing planning board profile in Customizing for PP/DS. For more information, see SAP Note [644295](#).
 - If you use customer-specific planning functions, such as **customer heuristics**, you have to adjust these to suit the new setup logic. This procedure is described in SAP Note [690692](#). Using the changes described in the SAP Note, you can make sure that the sequence-dependent setup activities no longer represent a date/time specification for detailed scheduling, and only contain duration and dates/times from the processing activity. For more information, see SAP Note [645719](#).

Customizing

- In Customizing for PP/DS, the following planning board profiles have been changed to adjust the display of the setup activities to the new setup logic:
 - SAP001
 - SAP003
 - SAP006
 - SAP_PCM1
 - SAP_REM

In these planning board profiles, the graphic objects for the standard settings of the operations, for de-allocated operations and for fixed operations have been copied and changed as follows:

- In the graphic element setup, the height has been decreased from 300 to 200 to make it possible to display the sequence-dependent setup activities in the DS planning board using a small bar.
- In the graphic element setup, the *Fixing* indicator has been set so that the setup activity is no longer a part of the phantom object when moving an operation in the detailed scheduling planning board.
- In the charts that display operations in the diagram section resource chart, operation chart, operations network display, the decision tables for graphic objects have been changed so that the changed graphic objects are used for an operation with a sequence-dependent setup activity.

Your existing planning board profiles have to be adjusted accordingly. For more information on this procedure, see SAP Note [644295](#).

More Information

- For more information on the new setup logic, see SAP Note [645719](#).

5.3 Adjusting the BW Authorizations

- For more information on determining setup times, see the SAP Library under ► *SAP Advanced Planner and Optimizer (SAP APO) → PP/DS Process → Basic Functions → Detailed Scheduling → Determine Sequence-Dependent Setup Activities* ◀.

End of: Source Release = SAP SCM 4.0 |

Only valid for: Enhancement Package Installation;Upgrade |

5.3 Adjusting the BW Authorizations

As of release SAP SCM 5.0, there have been changes in the BW authorization concept. Before you can start production operation, you must check whether it is necessary to adjust your authorization concept or migrate old authorizations.



NOTE

If you used the old BW authorization concept before the upgrade, you must switch to the new BW authorization concept after the upgrade.

Since the old concept is no longer supported as of release 5.0, you must migrate to the new concept as soon as possible.

For more information, see SAP Notes [1152453](#) and [820183](#).

Procedure

- If you are not using the BW authorization concept in Demand Planning, proceed as follows:
 1. Decide if you want to grant your Demand Planning users full access to all planning object structures (as in the previous releases) including all InfoProviders. If this is the case, you should assign the generated authorization `ØBI_ALL` in transaction `RSEADMIN` to all your Demand Planning users. Alternatively, you can include authorization object `S_RS_AUTH` with authorization `ØBI_ALL` in the corresponding authorization role assigned to your Demand Planning users.
 2. If you want to set up restricted access to planning object structures, you need to introduce the new SAP NetWeaver BW analysis authorization.
For more information about using the BW authorization concept, see the SAP Library for SAP Supply Chain Management on SAP Help Portal at ► *SAP Supply Chain Management (SAP SCM) → SAP Advanced Planning and Optimization (SAP APO) → Demand Planning → Technical Aspects of Demand Planning → Authorization in Supply Network and Demand Planning → Using the BI Authorization Concept in Demand Planning* ◀.
- If you are using the BW authorization concept for Demand Planning, proceed as follows:
 1. Mark the following special characteristics as authorization-relevant in transaction `RSD1`:
 - `ØTCAACTVT`
 - `ØTCAIPROV`

5.4 Deactivating the Compatibility Mode for DP/SNP Macro Books

- **OTCAVALID**

This setting is valid system-wide. It activates the BW analysis authorizations both for Demand Planning and for the complete SAP system.

2. Migrate old authorizations.

You can migrate these manually or use the migration help program RSEC_MIGRATION.

For more information about the migration help program, see the SAP Library for SAP

NetWeaver on SAP Help Portal at ► *SAP NetWeaver* → *SAP NetWeaver by Key Capability* → *Information Integration by Key Capability* → *Business Intelligence* → *Data Warehousing* → *Data Warehouse Management* → *Authorizations* → *Analysis Authorizations* ◀.

End of: Enhancement Package Installation; Upgrade |

Only valid for: Source Release = SAP SCM 4.1 | Upgrade |

5.4 Deactivating the Compatibility Mode for DP/SNP Macro Books

After the upgrade, you deactivate compatibility mode for the macro books. To display the current status of your macro books, use the *Upgrade Assistant* report /SAPAPO/ADV_UPGRADE_50 with which you analyzed the status of your macro books (see *SAP SCM: Planning the Upgrade of DP/SNP Macro Books* [page 13]) before the upgrade.



RECOMMENDATION

We strongly recommend that you deactivate compatibility mode for as many macro books as possible, so that you can benefit from the new functions in the target release.

To estimate the required effort, you need to run the *Upgrade Assistant* report /SAPAPO/ADV_UPGRADE_50 in the source system.

Procedure

1. Run the *Upgrade Assistant* report /SAPAPO/ADV_UPGRADE_50 to display the current status of your macro books.
2. Deactivate compatibility mode for as many of the macro books with yellow lights as possible.
To deactivate the compatibility mode, proceed as follows:
 1. Start the Macro Workbench (transaction /SAPAPO/ADVM).
 2. Open the corresponding macro book.
 3. In the menu, choose ► *Edit* → *Book Information* ◀.
 4. Deselect the *Compatibility Mode* checkbox.

For more information about how to proceed, see SAP Notes [865333](#) and [865334](#).

End of: Source Release = SAP SCM 4.1 | Upgrade |

Only valid for: Source Release = SAP SCM 4.1 | Upgrade |

5.5 Activating Packaging Specifications

If your source release is SAP SCM 4.1 and you are using packaging specifications in your SAP system, you need to manually activate all packaging specifications after the upgrade so that you can use them productively. When activating the packaging specifications, the SAP system also performs the handling unit validity check.



NOTE

You can activate the packaging specifications later. If you do this, note that the packaging specification determination ignores packaging specifications that are not activated.
To find packaging specifications that are not activated after the upgrade, select *U* as the status.

Procedure

1. On the *SAP Easy Access* screen, choose ► *Extended Warehouse Management* → *Master Data* → *Packaging Specification* → *Maintain Packaging Specification* ◀.
2. Select all packaging specifications.
3. Highlight the hit list.
4. Choose *Activate*.
5. Repeat this in all clients.

Alternatively, you can use the SNC user interface to activate the packaging specifications.

End of: Source Release = SAP SCM 4.1 | Upgrade |

Only valid for: Source Release = SAP SCM 4.1; SAP SCM 5.0 | Upgrade |

5.6 Performing Follow-Up Activities for SAP SNC



NOTE

You only need to perform the follow-up activities if you have used ICH in your source release.

As of SAP SCM 5.1, component ICH has been renamed to SAP Supply Network Collaboration (SNC). Before you can use your SAP system productively after the upgrade, you need to perform some manual follow-up activities if you used ICH in your source release.

Procedure

Follow-up Activities for Special Scenarios

Perform the follow-up activities as described in SAP Note [1019288](#).

Activating Services for the Web UI

To be able to use the Web user interface for SAP SNC, you must check existing and activate new services with transaction HTTP Service Hierarchy Network (transaction SICF). For more information, see the

5.7 Changing the Enhancement Technique (User Exists) in the CIF Area

configuration documentation for one of the following SAP SNC scenarios in SAP Solution Manager under:

- ► *Solutions → SAP for Automotive → Scenarios → Supplier Managed Inventory/Release Processing/Web-Based Supplier Kanban* ◀
- ► *Solutions → SAP for Consumer Products → Scenarios → Responsive Replenishment* ◀
- ► *Solutions → SAP for High Tech → Scenarios → Contract Manufacturing Procurement/Supply Network Inventory/Work Order Collaboration* ◀. Choose the section ► *Basic Settings for SAP Supply Network Collaboration → Maintaining Settings for Service and Single Sign-On Activation* ◀.

Configuring the SAP ICH 5.0 Compatibility Mode

As of SAP SNC 5.1, there are new message interfaces, new proxies, and new Business Add-Ins (BADIs) for inbound and outbound message processing available that use SAP SNC in the standard system. However, if you have enhanced message interfaces in SAP ICH 5.0, for example, with your own fields, or have implemented SAP ICH 5.0 BADIs, and want to continue to use the message interfaces, proxies, or BADIs from SAP ICH 5.0 in SAP SNC 5.1 and later, you have to configure the SAP ICH 5.0 compatibility mode. In Customizing for *Supply Network Collaboration*, choose ► *Basic Settings → Processing Inbound and Outbound Messages → SAP ICH 5.0 Compatibility Mode* ◀.

For more information, see the Customizing documentation.

End of: Source Release = SAP SCM 4.1;SAP SCM 5.0 | Upgrade |

Only valid for: Upgrade |

5.7 Changing the Enhancement Technique (User Exists) in the CIF Area

Procedure

After the upgrade from source releases SCM 4.1 and SCM 5.0, the SCM enhancements for products and locations APOCF001, APOCF005, APOCF31, APOCF32, APOCF035, APOCF36, APOCF38 and the Source of Supply Data/External Procurement (SOS) APOCF026 are no longer processed when data is transferred from SAP ERP to SAP SCM.

The enhancement APOCF001 has already been migrated to BAdI definition SMOD_APOCF001.

The enhancement APOCF005 has already been migrated to BAdI definition SMOD_APOCF005.

The enhancement APOCF31 has already been migrated to BAdI definition SMOD_APOCF31.

The enhancement APOCF32 has already been migrated to BAdI definition SMOD_APOCF32.

The enhancement APOCF035 has already been migrated to BAdI definition SMOD_APOCF035.

The enhancement APOCF036 has already been migrated to BAdI definition SMOD_APOCF036.

The enhancement APOCF038 has already been migrated to BAdI definition SMOD_APOCF038.

You need to change the enhancement technique for APOCF001, APOCF005, APOCF31, APOCF32, APOCF035, APOCF36 and APOCF38 as described in SAP Note [1269674](#).

User exit definitions to Process Customer-Specific Source of Supply data are missing in SCM Basis. For more information about how to find the new BAdI, see SAP Note [1428977](#).

End of: Upgrade |

Only valid for: Upgrade |

5.8 Performing Follow-Up Activities for the SNP Optimizer

Procedure

Adjusting SNP Optimizer Profile

Several functions of the SNP Optimizer were fundamentally revised. Before converting your SNP Optimizer profile data, see the following SAP Notes, and implement them if they apply to you:

- [436949](#)
- [573512](#)

Adjusting BAdI Implementation for Maintaining Interchangeability Costs

The interchangeability processes in the SNP optimizer has been changed. If you have used the BAdI implementation to maintain interchangeability costs as PPM costs in your source release, you have to modify this implementation as described in SAP Note [1049026](#).

End of: Upgrade |

Only valid for: Source Release = SAP SCM 5.0 | Upgrade |

5.9 Clearing the Cache for Service Parts Planning

Procedure

If your source release is SCM 5.0, you must run the report RSUPGSPPSAPGUI before you start with testing or before you start production operation at the latest. The report clears a cache that has been built in SAP SCM 5.0 to avoid short dumps of some of the Service Parts Planning (SPP) transactions in your target release.

End of: Source Release = SAP SCM 5.0 | Upgrade |

Only valid for: Upgrade |

5.10 Performing Follow-Up Activities for Forecasting & Replenishment

During the first run of the Forecasting and Replenishment Processor (FRP) after the upgrade, additional activities are performed that may lead to an increased runtime.

Procedure

For more information and a detailed procedure, see SAP Note [1250862](#).

End of: Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

5.11 Deleting the Download Data Table

After the upgrade, you no longer need the table containing the download data. However, you should keep the table for reference in case problems occur after the upgrade. After about four weeks, you can delete the table to increase the free space on the database.

Procedure

Execute the report `/SAPAPO/OM_LC_UPGRADE_70` in section D (see *SAP SCM: Planning the Upgrade of SAP liveCache and Optimizer* [page 11]) to delete the table containing the download data.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Upgrade |

5.12 Changing to the New Transport Load Builder

The Transport Load Builder (TLB) in Supply Network Planning (SNP) has been completely revised for SAP SCM 4.1.

The BADIs and user exits that you previously used to influence planning results are no longer available in the new version of the TLB.



NOTE

As of SAP SCM 5.0 the old version of the TLB planning function is no longer available.

Procedure

1. Check the TLB profile for entries with the same profile ID. If you find a profile ID that is used by two TLB profiles, assign an unused profile ID to one of the TLB profiles.
2. Execute the report `/SAPAPO/TLBPRF_TRANS` in each client, to switch from the old version to the new version.



CAUTION

While this report is running, you are not allowed to use the TLB planning function.

The system uses the new TLB planning function or the new TLB profile if you perform TLB mass processing or interactive TLB planning, determine TLB alerts, or schedule TLB background jobs. The transactions and entries in the *SAP Easy Access* screen remain unchanged.

3. You only have to create the mass processing variants again.
The system converts the existing TLB profiles into entries of the new TLB profile, and assigns them to transport mediums according to the existing assignments.

For more information about the procedure, see SAP Note [707828](#).

End of: Upgrade |

5.13 New Authorization Object in the SNP Transport Load Builder (TLB)

Only valid for: Upgrade |

5.13 New Authorization Object in the SNP Transport Load Builder (TLB)

As of SCM 7.0 the system checks the authorization object C_APO_TLAN for each transportation lane that has been selected for planning in /SAPAPO/SNP04. If a proper authorization is missing, the report skips the transportation lane and creates an entry into the application log. Therefore, you should adjust your processes if you have not used this authorization object before.

End of: Upgrade |

Typographic Conventions

Example	Description
<Example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, “Enter your <User Name>”.
► Example → Example ◀	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
<code>Example</code>	Words or characters that you enter in the system exactly as they appear in the documentation
http://www.sap.com	Textual cross-references to an internet address
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
123456	Hyperlink to an SAP Note, for example, SAP Note 123456
Example	- Words or characters quoted from the screen. These include field labels, screen titles, pushbutton labels, menu names, and menu options. - Cross-references to other documentation or published works
Example	- Output on the screen following a user action, for example, messages - Source code or syntax quoted directly from a program - File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE
EXAMPLE	Keys on the keyboard

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