

SAP Event Management 9.2

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Documentation on the SAP Service Marketplace

You can find this document at the following address: service.sap.com/instguides 

Typographic Conventions

Table 1

Example	Description
< >	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> ".
► ► ►	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
Example	Words or characters that you enter in the system exactly as they appear in the documentation
Example ➔	Textual cross-references to an internet address, for example, www.sap.com ➔
/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 ➔
<i>Example</i>	- 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, <code>SELECT</code> and <code>INCLUDE</code>
EXAMPLE	Keys on the keyboard

Document History



Caution

Before you start the implementation, make sure you have the latest version of this document. You can find the latest version on SAP Service Marketplace at service.sap.com/instguides .

The following table provides an overview on the most important document changes:

Table 2

Version	Date	Description
1.5	2016-01-21	Revisions for SAP Event Management 9.2 SP05 on - can be used with SAP S/4HANA and is compatible with SAP NetWeaver® 7.50
1.4	2015-04-30	Formal revision for general availability
1.3	2014-11-11	Revisions for SAP Event Management 9.2
1.2	2013-08-13	Revisions for SAP HANA with some minor updates
1.1	2013-05-09	Formal revision for general availability
1.0	2012-11-09	First version

Content

1	Getting Started	7
1.1	About This Document	7
1.2	Related Information	8
	Planning Information	8
	Further Useful Links	9
1.3	Important SAP Notes	9
2	SAP Event Management Upgrade Overview	11
2.1	Upgrade at a Glance	11
2.2	Upgrade Paths	11
2.3	SAP Event Management on SAP HANA	11
2.4	SAP Event Management on SAP S/4HANA	12
2.5	Upgrade of Involved Software Components	12
	Application Components	12
	Technology Components	13
2.6	Enhancement Package Key Concept	14
2.7	Key Facts About Enhancement Packages	16
2.8	Integration of SAP BusinessObjects	17
2.9	Software Component Matrix	18
2.10	Technical System Landscapes	19
2.11	Overall Upgrade Sequence	19
3	Business Processes of SAP Event Management	21
3.1	Procurement Processing	21
3.2	Fulfillment Processing	22
3.3	Transportation Processing	23
3.4	Outbound/Inbound Delivery Processing	24
3.5	Production Malfunction Processing	24
4	Application-Wide Topics	26
4.1	SAP Solution Manager	26
4.2	Service-Oriented Architecture (SOA)	26
	Service Enablement	26
	Installation of the Service-Oriented Architecture (SOA)	27
	Related Documentation	28
A	Appendix	29
A.1	List of Documents	29
A.2	List of SAP Notes	29
A.3	Tools and Resources for Planning Your System Landscape	30
	Business Process Repository (BPR) Viewer	32
	Using the BPR Viewer	32

1 Getting Started

1.1 About This Document

Purpose

This Upgrade Master Guide is a central starting point for the technical upgrade of SAP Event Management. You can find cross-scenario upgrade information as well as scenario-specific information in this guide.

This Upgrade Master Guide is relevant if you currently work with SAP Event Management lower than 9.2. For information about the upgrading to SAP Event Management 9.2, see SAP Note [2050605](#).

Note

The central starting point for the **technical implementation** of your SAP application/solution is the Master Guide. You find it on SAP Service Marketplace at service.sap.com/instguides.

Use the Upgrade Master Guide to get an overview of the upgrade paths, the upgrade of the involved software units and scenarios from a technical perspective. The Upgrade Master Guide is a planning tool that helps you to decide what software units you have to upgrade, taking into account the dependencies between the software units. It refers you to the required detailed documentation consisting of the following:

- Upgrade guides for single software units
- SAP Notes
- Configuration documentation
- SAP Library documentation

The Upgrade Master Guide consists of the following main sections:

- *Getting Started* contains valuable information about using this document and related information (documentation and SAP Notes) crucial to the installation and upgrade.
- *Event Management Upgrade Overview* provides an overview of main developments and changes that have been made with the new release. It contains upgrade paths, information on the upgrade of software components, and the technical system landscape for SAP Event Management.
- *Business Processes of SAP Event Management* contains the following information for each business process of SAP Event Management:
 - Business process overview
 - Information about the required technical system landscape
- *Application-Wide Topics* provides general information for upgrade projects.
- Depending on the specific business process, different installation and master guides are required during the business process implementation. In *List of Documents*, you find an overview of all documentation referenced in this Upgrade Master Guide.

i Note

For the most current information about the technical upgrade of SAP Event Management and the latest upgrade, installation, and configuration guides, see SAP Service Marketplace at service.sap.com/instguides . We strongly recommend that you use the documents available here. The guides are regularly updated.

Constraints

- The business scenarios that are presented here serve as examples of how you can use SAP software in your company. The business scenarios are only intended as models and do not necessarily run the way they are described here in your customer-specific system landscape. Ensure to check your requirements and systems to determine whether these scenarios can be used productively at your site. Furthermore, we recommend that you test these scenarios thoroughly in your test systems to ensure they are complete and free of errors before going live.
- This Upgrade Master Guide primarily discusses the overall technical upgrade of SAP Event Management, rather than its subordinate components. This means that additional software dependencies may exist without being mentioned explicitly in this document. You can find more information about component-specific software dependencies in the corresponding upgrade guides.

1.2 Related Information

1.2.1 Planning Information

Planning Information

For more information about planning topics not covered in this guide, see the following content on SAP Service Marketplace:

Table 3

Content	Location
Latest versions of installation and upgrade guides	service.sap.com/instguides 
SAP Upgrade Info Center – general information about upgrade topics and solution-specific upgrade information	service.sap.com/upgrade 
Documentation about this release of SAP Event Management on the SAP Help Portal	help.sap.com/em92 
SAP Business Maps – information about solutions and business scenarios	service.sap.com/businessmaps 
Sizing and calculation of hardware requirements – such as CPU, disk, and memory resource	service.sap.com/sizing 
Released platforms and technology-related topics such as maintenance strategies and language support	▶ service.sap.com/platforms  ▶ To access the Product Availability Matrix directly, enter ▶ service.sap.com/pam  ▶
Network Security	service.sap.com/securityguide 

Content	Location
High Availability	service.sap.com/ha
Performance	service.sap.com/performance
Information about Support Package Stacks, latest software versions, and patch level requirements	service.sap.com/sp-stacks
Information about Unicode technology	service.sap.com/unicode@sap

1.2.2 Further Useful Links

The following table lists further useful links on SAP Service Marketplace:

Table 4

Content	Location
Information about creating error messages	service.sap.com/message
SAP Notes search	service.sap.com/notes
SAP Software Distribution Center (software download and ordering of software)	service.sap.com/swdc
SAP Online Knowledge Products (OKPs) – role-specific Learning Maps	service.sap.com/rkt

1.3 Important SAP Notes

Read the following SAP Notes before you start the upgrade. These SAP Notes contain the most recent information about the upgrade, as well as corrections to the upgrade documentation.

Table 5

SAP Note	Title
2238445	Integration of Supply Chain Execution Platform Applications to SAP S/4HANA, on-premise edition
2065366	Release Information Note: SAP Fiori for SAP EM 1.0
2074814	SAP Event Management 9.2: Online Documentation Corrections
2035730	Implementation recommendations for SAP Event Management 9.2
2050605	SAP Event Management 9.2 Installation/Upgrade

SAP Note	Title
1738013 	TM: Integration with EM, ERP, CRM and EWM - Releases, Enhancement Packages and Support Packages
1846034 	SAP Visual Business 2.1: Information about patches
2001502 	SAP Visual Business: Clients for T&L Co-deployment
1874939 	SAP Business Suite for SAP NetWeaver Hub Systems
1812713 	Add-on compatibility of SAP NW AS ABAP 7.4 for Suite on HANA
677373 	Release Information Visibility Processes
811923 	Generating the SAP Solution Manager Key
1388258 	Version Interoperability Within the SAP Business Suite
839402 	Problems with Non-Unicode System Landscapes
1359215 	Technical Prerequisites for Using Enterprise Services
1224284 	Enterprise Services, Installing and Accessing the SOA Docu
1515223 	SAP NetWeaver Process Integration: Release Recommendation
1556383 	BI Content 705 Delta Upgrade
1678780 	BI_CONT 7.06: Information about installation and upgrade
1321293 	Installation / Upgrade BI_CONT / BI_CONT_XT 7x7
1324838 	Enhancement Package 5 for SAP ERP 6.0: Required SWC

Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at service.sap.com/notes .

2 SAP Event Management Upgrade Overview

2.1 Upgrade at a Glance

The following table shows the possible mapping of components between previous releases of SAP Event Management and SAP Event Management 9.2:

Table 6

SAP Event Management Previous Release	SAP Event Management 9.2	Action/Further Information
SCMSRV 900	SCMSRV 920	Upgrade to SAP Event Management 9.2
SCMSRV 701	SCMSRV 920	Upgrade to SAP Event Management 9.2
SCMSRV 700	SCMSRV 920	Upgrade to SAP Event Management 9.2
SCMSRV 510	SCMSRV 920	Upgrade to SAP Event Management 9.2

Table 7

BI Content Previous Release	SAP Event Management 9.2	Action/Further Information
BI_CONT 703	BI_CONT 705	Import/Distribute on BI

2.2 Upgrade Paths

SAP Event Management is an add on of SAP NetWeaver®.

i Note

- For SAP Event Management 9.2 the required version of SAP NetWeaver® is SAP NetWeaver® 7.4 Support Package Stack 08.
- SAP Event Management 9.0 and higher is not part of SAP Supply Chain Management Server stack.
- Enhancement Package 2 for SAP Supply Chain Management Server 7.0 uses Enhancement Package 1 for SAP Event Management 7.0.

2.3 SAP Event Management on SAP HANA

Since SAP Event Management 9.0 Service Package 03 on, SAP Event Management has been released to run on the SAP HANA database.

Notes

- The release on the SAP HANA database does not imply any functional changes or functional enhancement to SAP Event Management. All scenarios and all functions in SAP Event Management can be used on SAP HANA in the same way as on any other supported database.
- The Object Event Repository is also available on SAP HANA based on SAP Event Management 9.2 Service Package 02, and Auto-ID Infrastructure 7.1 Service Package 11.

Hardware Sizing

As with Event Management in general, precise sizing rules cannot be given for SAP Event Management on SAP HANA due to the overwhelming number of possible configurations. Use the following, as guidelines only, for SAP Event Management on a mid-size 40 CPU server running SAP HANA:

- On the capture side, a capture rate of more than 1000 events per second, based on creating 5 event handlers and processing 50 related event messages per second in a single process
- On the query side, a query rate of 25 queries per second in a single process for a typical SAP Event Management search

Note that, these numbers are indications only rather than guaranteed values. Changes without prior notice are possible due to evolving SAP HANA technology.

2.4 SAP Event Management on SAP S/4HANA

From SAP Event Management 9.2 Service Package 05 on, you can use SAP Event Management to track processes in SAP S/4HANA. In this case SAP Event Management must be installed as a separate instance (side by side approach). Deploying SAP Event Management as an add on for SAP S/4HANA is not supported.

Note

- All SAP standard scenarios for SAP ERP are also supported for SAP S/4HANA. The same interfaces as for SAP ERP are used in SAP S/4HANA.
- For information on SAP S/4HANA across SAP SCM, see SAP Note [2238445](#) .

2.5 Upgrade of Involved Software Components

2.5.1 Application Components

2.5.1.1 SAP Event Management

For an upgrade to SAP Event Management 9.2, the following components are required or optional on a separate server to SAP Event Management:

- SAP enhancement package 5 or higher for SAP ERP 6.0 if you install SAP Event Management as an add-on for SAP ERP
- SAP enhancement package 1 for SAP NetWeaver 7.3 usage type PI (optional)

- SAP enhancement package 1 for SAP NetWeaver 7.3 usage type BI (optional)

Upgrade SAP Visual Business from Version 2.0 to 2.1

When upgrading from SAP Event Management release 9.0 to 9.2, to run the Geomap you must correspondingly upgrade SAP Visual Business from version 2.0 to 2.1. After that, implement the following steps:

1. Customizing Configuration

You must enter all the details of your map content, for example insert the URL from your map provider. You do this in Customizing under ► *General Settings in SAP Event Management* ► *Geographical Map* ► *Visual Business* ► *Maintain Application Definitions* ►

2. Client Installation

For each end-user PC that has an existing SAP Visual Business installation, you must install SAP Visual Business version 2.1.

3. Application Customizing

If you already enhanced the map implementation in SAP Event Management 9.0, those enhancements are available without you having to make any changes. Optionally, you can further enhance the map implementation, for example change the display colors, in Customizing under ► *Business Add Ins for SAP Event Management* ► *Enhancements for Geographical Map* ► *BAdI: Enhancement for Geographical Map* ►

More Information:

- For more information about installing SAP Visual Business, see the corresponding Installation and Configuration Guide on SAP Service Marketplace at service.sap.com/instguides ►.
- [1846034](#) ► SAP Visual Business 2.1: Overview of patches
- [2001502](#) ► SAP Visual Business clients for Transportation and Logistics

2.5.1.2 SAP ERP – ECC Server

SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 is the supported base release for SAP Event Management 9.2.

For more information, see the SAP ERP 6.0 Upgrade Master Guide on SAP Service Marketplace at

► service.sap.com/instguides ► *SAP Business Suite Applications* ► *SAP ERP* ► *SAP ERP 6.0* ► *SAP enhancement packages for SAP ERP 6.0* ► *SAP enhancement package <7 or higher> for SAP ERP 6.0* ►.

2.5.2 Technology Components

2.5.2.1 SAP NetWeaver Usage Type PI (Process Integration)

For upgrade information, see the Upgrade Master Guide for SAP NetWeaver 7.3 Including Enhancement Package 1 on SAP Service Marketplace at service.sap.com/instguides ►.

2.6 Enhancement Package Key Concept

We have adapted our major release strategy to better fit your adoption cycle. To ensure that you benefit from new developments and innovations while minimizing the impact on your core operational systems, SAP uses enhancement packages to speed up the delivery of new functions.

With SAP enhancement packages, you can install and activate new functions depending on your business needs without having to perform a system upgrade.

You can selectively implement the new functions and activate the software upon business demand. As a result, you can isolate the impact of software updates and make new functions available faster due to shortened test cycles.

Implementation

There are three different scenarios to implement an enhancement package:

- Installation of an enhancement package on an existing SAP system (update)
- New installation of an SAP system including an enhancement package (installation)
- Upgrade of an SAP system including an enhancement package (upgrade)

To implement new business functions you carry out the following two steps:

- Technical installation of an enhancement package
- Activation of business functions using the switch framework technology

You have a choice on both levels – installation and activation. You do not need to install a full enhancement package. Instead, you can update the software components that are related to the functional enhancements you want to use.

Note

Keep in mind that you cannot mix the installation of different enhancement package versions in your ABAP-based SAP system. You can have just one enhancement package version in the SAP system.

From a business point of view, functional enhancements are grouped into business functions (BFs). The technical installation of the business functions does not change the system behavior. The new functions are available in the system, but are not active. After the installation, no user interface or process change takes place. You must explicitly activate new functions so that they become visible in the system. As a result, changes are predictable and there are no side effects as only the activated areas change.

With the switch framework technology (transaction SFW5), it is possible to control the activation of new SAP objects in ABAP-based SAP systems. The activation process triggers a background job that automatically performs all changes in the SAP system.

Caution

You cannot reverse most business function once they are activated. Due to technical restrictions, only a limited number of business functions are reversible.

After you have activated a business function, you can see the changes and new developments in the SAP system, for example:

- Menu entries
- New screens
- New fields on the application user interfaces

- IMG activities required for the implementation
- New table entries in Customizing tables and system tables

You can create a transport request with the current settings of the switch framework. You can check functional changes and the impact of an activated business function in advance in the business function documentation.

➔ Recommendation

Test the installation and activation on a sandbox system.

Maintenance

SAP enhancement packages have Support Packages of their own that are equivalent to the Support Package versions of the underlying SAP system. We highly recommend installing the enhancement package in combination with the latest available Support Package stack. This approach reduces installation, modification adjustment, and testing effort. Using this strategy, you can install SAP enhancement packages as a normal maintenance activity together with Support Package stacks.

An enhancement package requires a specific Support Package stack level in the source release SAP system.

i Note

If the SAP system is on a lower Support Package stack level, all relevant Support Package stacks for the EHP installation are **automatically included** into the download queue by the Maintenance Optimizer, as well as the latest available Support Packages for the enhancement package.

Tools

The enhancement package installation requires the following tools:

- **SAP Solution Manager**

i Note

Use of SAP Solution Manager is **mandatory**.

SAP recommends that you use SAP Solution Manager 7.1, SPS 10 or higher.

For more information, see SAP Service Marketplace at ► service.sap.com/solutionmanager ►.

Make sure that you have correctly defined and maintained your system landscape in SAP Solution Manager (transaction `SMSY`). To verify and correct your system landscape SAP highly recommends that you use Landscape Verification 1.0 for SAP Solution Manager 7.0, which is an add-on to your SAP Solution Manager 7.0 system. This add-on allows you to identify and correct issues in your SAP Solution Manager landscape (transaction `SMSY`) before they cause problems, for example during a system update. Examples for errors are a missing connection to the System Landscape Directory or the wrong assignment of products to technical systems. For each type of error, a generic description for the solution is provided.

For more information about the landscape verification add-on, see SDN at ► www.sdn.sap.com/irj/sdn ► [Application Lifecycle Management](#) ► [Technical Enablement](#) ► [Update and Upgrade](#) ► [Related Areas on Upgrade and Update Management](#) ► [Landscape Verification](#) ► (www.sdn.sap.com/irj/sdn/alm?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d ►).

➔ Recommendation

Before installing the enhancement package, we recommend that you install the landscape verification add-on to check your landscape setup and your data (transaction SMSY) and to correct data should it be necessary.

- **Installation and Update Tools**

Installation or upgrade tools (depending on your scenario).

The SAP Solution Manager Maintenance Optimizer (transaction `DSWP`) supports the download of a consistent queue that includes all necessary Support Packages and enhancement packages. In addition, SAP Solution Manager calculates a valid import queue for the selected SAP system and generates the enhancement package stack configuration file that you require for the installation.

For the new installation of an SAP system including enhancement package you use the standard installation tool Software Provisioning Manager (SWPM).

To install an enhancement package on an existing SAP system, as well as for the upgrade of an SAP system to a higher release including an enhancement package, you use the Software Update Manager (SUM).

For more information about SWPM and SUM, see the documentation at ► service.sap.com/sltoolset ➔

2.7 Key Facts About Enhancement Packages

The following list summarizes important facts about the enhancement package concept and recommended approaches:

- Install only selected parts of the enhancement package. The selection is driven by the functional need from a business point of view.
- You cannot mix the installation of different enhancement package versions in your ABAP-based SAP system. You can have just one enhancement package version in the SAP system. This means, if you have already updated technical usages to a previous EHP you need to apply the current EHP to those components as well.
- SAP enhancement packages are cumulative, meaning that each new enhancement package includes new innovations of its own as well as all innovations delivered with prior packages.
- We recommend installing the latest available enhancement package version.
- Install enhancement packages and Support Packages in one single step (this includes the preconditioned Support Packages).
- SAP enhancement packages have Support Packages of their own that are equivalent to the Support Package versions of the underlying SAP system.
- SAP enhancement packages have the same maintenance period as the underlying core application.
- The installation of an enhancement package is irreversible.
- As long as you do not activate a business function, the installation of an enhancement package has no impact on existing business processes or user interfaces.

You can only activate business functions in ABAP-based systems, not in Java-based SAP systems.

- The activation of most business functions and extension sets is irreversible. Only a small number of business functions is reversible.

Test the installation process and activation of new functions in advance on a sandbox system. Ensure that you evaluate the runtime and the SAP system behavior, its dependencies and impacts. Make sure that your SAP system is free of errors before going live.

2.8 Integration of SAP BusinessObjects

The integration of SAP BusinessObjects Crystal Reports and SAP BusinessObjects Xcelsius in SAP Business Suite provides you with analysis functions that are integrated in the user interface and processes: Embedded Analytics. Predefined reports and dashboards provide a detailed, graphical, or interactive display of (transaction) data from SAP Business Suite or from SAP NetWeaver BW.

Embedded Analytics contains the following integrations:

- Crystal Reports as an alternative for displaying simple lists in SAP GUI ALV Grid, Web Dynpro ABAP ALV, and POWER list (not in SAP CRM)
- Crystal Reports for the formatted display of data from queries
- Xcelsius for the graphical or interactive display of data from queries in dashboards

Users can call these functions in SAP NetWeaver Business Client, SAP NetWeaver Portal, or SAP CRM.

Technical Requirements

- Crystal Reports for Displaying Simple Lists
You require Crystal Reports Viewer for Business Suite Applications 1.0 or higher. Note the corresponding license terms.
- Crystal Reports with Queries
To display the Crystal Reports provided, you require SAP BusinessObjects Enterprise XI 3.1 (SP02) and SAP BusinessObjects Integration for SAP XI 3.1 (SP02). Note the corresponding license terms for SAP BusinessObjects.
To create your own Crystal Reports, you require Crystal Reports 2008 V1 (SP02). Note the corresponding license terms.
- Xcelsius Dashboards with Queries
To display the Xcelsius dashboards provided, you require Adobe Flash Player version 9. You must also check the license terms for SAP BusinessObjects.
To create your own dashboards, you require SAP BusinessObjects Xcelsius Enterprise 2008 (SP03, FP1). Note the corresponding license terms for SAP BusinessObjects.

For displaying data from queries via the predefined content, the following system requirements also apply:

- SAP NetWeaver 7.0 including enhancement package 2 (SP04) or higher
- SAP NetWeaver 7.0 BI Content Add-On 5 or higher
- Extension for SAP NetWeaver 7.02 BI Content Add-On 5 or higher

More Information

For more information about the different topics, see the information sources in the following table.

Table 8

Topic	Information Source
General Information	SAP Library for SAP ERP or SAP Library for SAP Customer Relationship Management on SAP Help Portal at help.sap.com/erp607 or help.sap.com/crm In SAP Library, choose Processes and Tools for Enterprise Applications > Embedded Analytics .

Topic	Information Source
Installation Information	SAP Help Portal at ► help.sap.com ► <i>Analytics</i> ► <i>All Products</i> ►
Configuration Information	SAP Solution Manager under ► <i>Solutions/Applications</i> ► <i>Basic Configuration</i> ► <i>Embedded Analytics</i> ►
Installation Instructions	SAP Notes 1353044 (Crystal Reports Viewer for Business Suite Applications 1.0) and 1345320 (Crystal Reports with Queries)

2.9 Software Component Matrix

This section provides an overview of the components used by each business process in SAP Event Management. For the latest component version and patch level requirements, see SAP Service Marketplace at service.sap.com/sp-stacks.

i Note

This Upgrade Master Guide provides just one way of implementing each business scenario. For other ways of implementing business scenarios, see the Scenario & Process Component List in SAP Service Marketplace at service.sap.com/scl. The Scenario & Process Component List helps you to find realization alternatives for SAP applications/solutions, business scenarios, and processes. It shows you which application components are needed to realize a business scenario or process.

Table 9: SAP Event Management as Add-On for SAP ERP

SAP Event Management Business Processes	Key: X = mandatory; (X) = optional; () = not required				
Business Process	SAP Event Management	SAP Supply Chain Management	SAP ECC	SAP Net-Weaver Usage Type BI	SAP Net-Weaver Usage Type PI
Procurement Processing	X		X	(X)	(X)
Fulfillment Processing	X		X	(X)	(X)
Outbound/Inbound Delivery	X		X	(X)	(X)
Transportation Processing	X		X	(X)	(X)
Production Malfunction Processing	X	X ¹⁾	X	(X)	(X)

1) This component is only mandatory as an application system to enable the indicated business process.

Table 10

2.10 Technical System Landscapes

SAP Event Management is an add-on of SAP NetWeaver®. You must install SAP Event Management and the appropriate version of SAP NetWeaver® on the same server (that is the same physical machine). SAP NetWeaver® includes the corresponding version of SAP Basis Plug-In which is also required.

You can install SAP Event Management together with other applications on the same server (such as SAP ERP or SAP Transportation Management, SAP TM) provided they run on the same version of SAP NetWeaver® as required by SAP Event Management. Any other application that cannot run on the same version of SAP NetWeaver® as required by SAP Event Management must be installed on a separate server in your system landscape. Also, for performance reasons, it might be recommendable to distribute the other applications across one or more servers. The following is a list of other application versions that are compatible with, and can be installed on, the same server as SAP Event Management 9.2:

- SAP NetWeaver® 7.4 Support Package 08 or alternatively, SAP Event Management 9.2 Service Package 05 and above is compatible with SAP NetWeaver® 7.5 Support Package 01.
- SAP Enhancement Package 7 or higher for SAP ERP 6.0 Service Package 06
- SAP TM 9.2 or higher
- SAP Enhancement Package 2 for SAP Supply Network Collaboration 7.0
- SAP Auto-ID Infrastructure 7.1

WARNING: if SAP Event Management 9.x is already installed, do not install SAP Supply Chain Management as it would overwrite your installation with an earlier release of SAP Event Management.

Note

- Any of the applications listed above, except SAP NetWeaver®, can be installed on a separate server if required, for example for performance reasons.
- If you have already installed SAP Supply Chain Management and you want to upgrade to SAP Event Management 9.2, you must first install SAP Enhancement Package 3 or higher for SAP Supply Chain Management 7.0 Service Package 06 or higher.
- Other applications can be installed on the same server provided they run on the listed version of SAP NetWeaver®.
- We recommend that you use a minimal system landscape for test and demo purposes only. For performance, scalability, high availability, and security reasons, do **not** use a minimal system landscape as your production landscape.

The following lists some other applications that are compatible with SAP Event Management when installed on a separate server to SAP Event Management 9.2:

The following lists some other applications that are compatible with SAP Event Management when installed on a separate server to SAP Event Management 9.2:

- SAP Enhancement Package 5 or higher for SAP ERP 6.0
- SAP Enhancement Package 1 for SAP Supply Chain Management 7.0
- For SAP TM refer to SAP Note [1738013](#)

For installation on the SAP HANA database, see [SAP Event Management on SAP HANA \[page 11\]](#).

2.11 Overall Upgrade Sequence

The following table describes the overall upgrade sequence for SAP Event Management. This table contains all available software units. However, to run a specific business process, you only need a subset of available software units. Some are only required for special processes. For information about which software is required to run a specific business process, see [Business Processes of SAP Event Management \[page 21\]](#).

For the latest component version and patch level requirements, see SAP Service Marketplace at service.sap.com/sp-stacks .

For documentation listed in the following table, see [List of Documents \[page 29\]](#).

Procedure

Table 11: Upgrade Sequence for SAP Event Management

Step	Action [Required Documentation]	Remarks/Subsequent Steps
1	Upgrade SAP NetWeaver 7.4 Support Package 08 [Upgrade Master Guide for SAP NetWeaver]	
2	Upgrade SAP Event Management 9.2 [This guide]	Install on same server as SAP NetWeaver See SAP Note 2050605  .
3	Install SAP Fiori for SAP EM 1.0	Optional Install on same server as SAP Event Management See SAP Note 2050605  .
4	Upgrade SAP NetWeaver 7.3 enhancement package 1 (PI) [Upgrade Master Guide for SAP NetWeaver]	Optional Install on separate server to SAP Event Management Import new XI_CONTENT Versions
5	Upgrade to BI CONT 7.05 or compatible	Optional Install on same server as SAP NetWeaver (PI) SAINT Upgrade on BI System
6	Upgrade to SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 [SAP ERP 6.0 Upgrade Master Guide]	Optional Consider whether to install on same server as SAP Event Management or not Include SAP Event Management 9.2 ABAP Packages in the upgrade

Migration from the Java-Based Web User Interface to the Standard Web User Interface

The JAVA-based Web UI (WCL UI), previously called “Web Interface (Classic)”, is no longer part of SAP Event Management from release 9.0 on. It is not supported in subsequent releases. Existing installations can still be used with SAP Event Management 9.0, but new features from SAP Event Management 7.0 on are not available in the JAVA-based UI. For more information, see SAP Note [1430143](#) .

Given that all included features are supported, tracking scenarios maintained for the Java-based Web user interface also work out-of-the-box in the Web Dynpro ABAP-based Web user interface, because the screen configuration for both Web user interfaces is based on the same settings. If you access the Web user interface with the appropriate event handler details through alerts that contain a URL in their text, you have to make sure that all relevant alert categories are adjusted to the appropriate user interface. For more information, see Customizing for SAP Event Management under ► [Reactions to Event Messages](#) ► [Define Alert Framework Connection](#) ► [Define Alert Framework Integration to SAP Event Management](#) .

3 Business Processes of SAP Event Management

This section describes visibility processes provided by the SAP Event Management standard, for which detailed descriptions and configuration guides are available in the SAP service market place. Further visibility processes and the related configuration guides are available as part of the SAP Solution Manager content of the applications. This is especially the case for the new visibility processes for SAP Transportation Management (SAP TM), which are described in the scenario configuration guides of SAP TM.

3.1 Procurement Processing

Overview

The procurement visibility process for production materials covers events from purchase order creation to payment, including order acknowledgment, shipping notifications, goods receipt, and invoice functions. This process can be combined with the transportation visibility process to also cover shipment-related events. Role-based access for suppliers and buyers is available. Key Performance Indicators (KPIs) are provided on the supplier cycle time, changes to the purchase order, and the percentage of specific attributes.

Procurement processing in SAP Event Management typically comprises the following activities:

- Purchase requisition
- Payment
- Order acknowledgment
- Shipping notification
- Goods receipt
- Invoice functions

For more information about the setup of the underlying application process, see the Inbound Processing & Receipt Confirmation with Warehouse Management process documentation, for example, in the SAP Solution Manager.

Technical System Landscape

The following software components are either mandatory or optional, as indicated below, for the technical implementation of this process.

The following table provides just one way of implementing the business process. For other combinations, see service.sap.com/scl .

For more information about the minimum release requirements concerning the productive use of the procurement visibility process, see SAP Note [677373](#) .

Table 12: SAP Event Management integration with SAP ERP

Component	Mandatory	Optional
SAP Event Management 9.2	X	
SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 if SAP ERP is installed on the same server as SAP Event Management otherwise SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06	X	
SAP NetWeaver BI		X
SAP NetWeaver PI		X

Table 13

3.2 Fulfillment Processing

Overview

The fulfillment visibility process monitors the delivery process and provides active tracking of the delivery for the customer. Events are reported from within the company as well as by business partners. Follow up activities are triggered in the form of e-mails to the customers if there is a delay. SAP NetWeaver Business Intelligence (SAP NetWeaver BI) may be updated, so the business process can be analyzed. Fulfillment processing covers events from warehouse activities to the point-of-delivery (PoD) at the customer site.

Fulfillment processing in SAP Event Management typically comprises the following activities:

- Warehouse activities
- Monitoring and controlling the delivery process
- Tracking the delivery
- Notification and follow-up

For more information about the setup of the underlying application process, see the Outbound Processing with/Without Warehouse Management process documentation, for example, in the SAP Solution Manager.

Technical System Landscape

The following software components are either mandatory or optional, as indicated below, for the technical implementation of this process.

The following tables provide just one way of implementing the business process. For other combinations, see service.sap.com/scl.

For more information about the minimum release requirements concerning the productive use of the fulfillment visibility process, see SAP Note [677373](https://support.sap.com/en/notes/677373.html).

Table 14: SAP Event Management integration with SAP ERP

Component	Mandatory	Optional
SAP Event Management 9.2	X	

Component	Mandatory	Optional
SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 if SAP ERP is installed on the same server as SAP Event Management otherwise SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06	X	
SAP NetWeaver BI		X
SAP NetWeaver PI		X

3.3 Transportation Processing

Overview

The transportation visibility process is similar to the fulfillment process but concentrates solely on transportation for international inbound and outbound shipments. It covers international sea shipments including customs and road transportation. This visibility process also deals with complex transportation networks using transportation chains.

For more information about the setup of the underlying application process, see the Transportation Execution process documentation, for example, in the SAP Solution Manager.

Technical System Landscape

The following software components are either mandatory or optional, as indicated below, for the technical implementation of this process.

The following table provides just one way of implementing the business process. For other combinations, see service.sap.com/scl.

For more information about the minimum release requirements concerning the productive use of the transportation visibility process, see SAP Note [677373](#).

Table 15: SAP Event Management integration with SAP ERP

Component	Mandatory	Optional
SAP Event Management 9.2	X	
SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 if SAP ERP is installed on the same server as SAP Event Management otherwise SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06	X	
SAP NetWeaver BI		X
SAP NetWeaver PI		X

3.4 Outbound/Inbound Delivery Processing

Overview

You can use this process to provide visibility throughout outbound delivery processing, based on deliveries and their handling units. It covers events from warehouse activities to the point-of-delivery (PoD) at the customer site. Role-based access for customers (sales executives) and warehouse managers is supported. You have the option of posting the packing and loading events with the help of SAP Auto-ID Infrastructure. Outbound/Inbound delivery processing in SAP Event Management typically comprises the following activities:

- Notification of goods
- Packing
- Loading

For more information about the setup of the underlying application process, see the RFID-Enabled Outbound Processing Without Warehouse Management and RFID-Enabled Inbound Processing and Receipt Confirmation process documentation, for example, in SAP Solution Manager.

Technical System Landscape

The following software components are either mandatory or optional, as indicated below, for the technical implementation of this process. The following table provides just one way to implement the business process. For other combinations, see service.sap.com/scl.

For more information about the minimum release requirements concerning the productive use of this visibility process, see SAP Note [677373](https://support.sap.com/en/notes/677373).

Table 16: SAP Event Management integration with SAP ERP

Component	Mandatory	Optional
SAP Event Management 9.2	X	
SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 if SAP ERP is installed on the same server as SAP Event Management otherwise SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06	X	
SAP Auto-ID Infrastructure 7.1		X
SAP NetWeaver BI		X
SAP NetWeaver PI		X

3.5 Production Malfunction Processing

Overview

The production malfunction process describes the visibility within production. It covers events from the release of the manufacturing order to the related goods receipt, including machine breakdowns. This process closes the gap between planning and execution by notifying the planner in the event of a machine breakdown, and combines production and plant maintenance-related information. Role-based access for production planners and

supervisors is available. The system provides KPIs on the manufacturing orders affected by a machine breakdown, including rescheduled orders.

For more information about the setup of the underlying application process, see the Manufacturing Execution (Discrete/Repetitive/Process Manufacturing) process documentation, for example, in the SAP Solution Manager.

Technical System Landscape

The following software components are either mandatory or optional, as indicated below, for the technical implementation of this process.

The following table provides just one way of implementing the business process. For other combinations, see service.sap.com/scl.

For more information about the minimum release requirements concerning the productive use of the production malfunction process, see SAP Note [677373](#).

Table 17: SAP Event Management integration with SAP ERP

Component	Mandatory	Optional
SAP Event Management 9.2	X	
SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06 if SAP ERP is installed on the same server as SAP Event Management otherwise SAP enhancement package 7 or higher for SAP ERP 6.0 Service Package 06	X	
SAP enhancement package 3 or higher for SAP Supply Chain Management 7.0 Service Package 06 if SAP SCM is installed on the same server as SAP Event Management otherwise SAP enhancement package 2 for SAP SCM 7.0		X
SAP NetWeaver BI		X
SAP NetWeaver PI		X

4 Application-Wide Topics

4.1 SAP Solution Manager

SAP provides the SAP Solution Manager as a platform to efficiently support the implementation and upgrade of your solution. Using SAP Solution Manager significantly accelerates the implementation and upgrade process and helps you to achieve your business goals. At the same time, SAP can deliver Support Services based on the business scenarios designed and documented in SAP Solution Manager. Implementation content for your solution may further accelerate the implementation and upgrade process. For information about availability of content specifically tailored to your solution, see SAP Service Marketplace at service.sap.com/solutionmanager ➔.

The Upgrade Roadmap, which is part of SAP Solution Manager, provides methodologies for planning and executing the upgrade project.

For more information about other shared services provided by SAP NetWeaver that are required to run the system landscape (for example, System Landscape Directory, Software Lifecycle Manager, and the support infrastructure), see the master guide and upgrade master guide for SAP NetWeaver 7.0 and the component upgrade guide for SAP NetWeaver 7.0 including enhancement package 3 on SAP Service Marketplace at service.sap.com/instguides ➔.

4.2 Service-Oriented Architecture (SOA)

SAP's delivery on SOA (service-oriented architecture) differs from the pure architectural concept of SOA in the delivery of ready-to-use enterprise services. Enterprise services are SAP-defined Web services which provide end-to-end business processes or individual business process steps that can be used to compose business scenarios while ensuring business integrity and ease of reuse. SAP designs and implements enterprise service interfaces to ensure semantic harmonization and business relevance. This section deals with the service-enablement of SAP Business Suite 7.

4.2.1 Service Enablement

The service enablement of SAP Business Suite consists of one or more of the following SAP components:

- **SAP Business Suite 7**

Enterprise services are an integral part of the software components of the SAP Business Suite applications. Enterprise services are the technical interfaces to the functionality available in the business application.

- **SAP NetWeaver PI 7.0 or higher**

SAP NetWeaver Process Integration (SAP NetWeaver PI) is an open integration and application platform that provides tools enabling you to set up a service-oriented architecture for business applications. You can use the platform for providing, discovering, and consuming services, integrating applications using the

integration server, and managing business processes. Process integration is required in a runtime environment to consume enterprise services in a mediated scenario.

We recommend that you use the highest version of SAP NetWeaver Process Integration (PI). For more information, see SAP Note [1515223](#) and SAP Note [1388258](#).

i Note

Starting with SAP NetWeaver Process Integration (PI) 7.3, SAP provides a new installation option Advanced Adapter Engine Extended (AEX). Since AEX is based on AS Java alone, it is easier to install and maintain as well as it needs less memory and data storage. Therefore, AEX is a cost-saving option compared to a full installation of SAP NetWeaver PI. For more information about the AEX, enter the phrase *Advanced Adapter Engine Extended* in the documentation of SAP NetWeaver Process Integration at help.sap.com/nw73 and see SAP Note [1573180](#).

i Note

Asynchronous services that are enabled for *Web Services Reliable Messaging (WS-RM)* can be called in a point-to-point communication scenario. Otherwise asynchronous services can only be consumed in a mediated scenario.

- **Enterprise Services Repository**

The Enterprise Services Repository (ES Repository) is the central repository that contains the definition of all enterprise services and models. The ES Repository is shipped with SAP NetWeaver PI and with SAP NetWeaver Composition Environment (CE) starting with SAP NetWeaver PI 7.1 and with SAP NetWeaver CE 7.1. The Enterprise Services Repository is a design time environment that enables you to create and enhance enterprise service definitions.

i Note

In a SAP NetWeaver 7.0x landscape you use the Integration Repository to create and enhance enterprise service definitions.

- **Services Registry**

The Services Registry is shipped with SAP NetWeaver PI and SAP NetWeaver CE starting with SAP NetWeaver PI 7.1 and SAP NetWeaver CE 7.1. The Service Registry is only required for the publication of enterprise service end-points (Web services) that have been configured and activated in the SAP Business Suite.

- **SAP NetWeaver CE 7.1 or higher**

The SAP NetWeaver Composition Environment (SAP NetWeaver CE) provides a robust environment for the design and implementation of composite applications.

The design time environment of SAP NetWeaver CE can be used for the model-driven design and development of composite applications based on enterprise services. SAP NetWeaver CE offers the tools and the environment necessary for running composite applications fast and efficiently in a runtime environment.

4.2.2 Installation of the Service-Oriented Architecture (SOA)

The installation of service interfaces, and therefore the service enablement of SAP Business Suite, consists of one or more of the following phases:

- **Identification of software components and required business functions**

You use the technical data section of the enterprise service documentation to identify the following data for each enterprise service:

- the software component version with which the service was shipped
- the business function(s) required to be activated

- **Identification of technical usages** (relevant for SAP ERP only)

SAP Note [1818596](#)  provides a mapping of business functions and software component versions to technical usages. You use this documentation to identify the required technical usages for your list of software component versions and business functions.

- **Installation of the software component ECC-SE** (relevant for SAP ERP only)

The software component ECC-SE contains service implementations for ECC (the ERP Central Component). This component must be explicitly installed if you intend to use enterprise services for ECC functionality. In this case you must also select the technical usage “ESA ECC-SE” during the enhancement package installation.

- **Selection and installation together with the other parts of the enhancement package**

In the enhancement package installation process you must select all the technical usages you have identified for service enablement together with the technical usages you identified for enhanced features in SAP Business Suite. The selected technical usages will install the corresponding software components that contain the enterprise services interfaces and implementations.

- **Import of ESR Content (aka XI Content)** (optional)

To install the content required for the enterprise service definitions you must select the technical usage “XI Content” in the enhancement package installation process. This usage type downloads the content files for SAP NetWeaver PI 7.0 or higher. Unpack the ZIP file and copy the tpz files corresponding to your SAP NetWeaver PI version into the import directory of your Integration Repository (for SAP NetWeaver PI 7.0x) or Enterprise Services Repository (for SAP NetWeaver ES Repository 7.1 or higher). Use the import function to import the content files into the corresponding repository (Integration Repository or Enterprise Services Repository). (Choose ► [Tools](#) ► [Import Design Objects](#) ►)

- **Services Registry** (optional)

The services registry is shipped starting with SAP NetWeaver PI 7.1 and CE 7.1. You must configure the services registry and then publish the enterprise services from the Business Suite application to the registry using the transaction SOAMANAGER in the backend.

For further information regarding the SAP NetWeaver PI, CE and ES Repository, refer to the corresponding SAP NetWeaver Installation and Master Guides.

4.2.3 Related Documentation

For more information about the service-oriented architecture (SOA), see the following information sources:

- SCN Community in the SAP Network at scn.sap.com/community/soa  (registration required)
- SAP Note [1359215](#) : Technical prerequisites for using enterprise services (relevant for [ERP](#) only)
- SAP note [838402](#) : Problems with non-Unicode system landscapes

A Appendix

A.1 List of Documents

The following table lists all documents mentioned in this Upgrade Master Guide:

Table 18

Title	Location on SAP Service Marketplace
Installation Guides	
Installation Guide - SAP NetWeaver 7.5	service.sap.com/installnw75 ➔
Installation Guide - SAP NetWeaver 7.4	service.sap.com/installnw74 ➔
Installation Guide - SAP NetWeaver 7.3 Including Enhancement Package 1	service.sap.com/installnw73 ➔
Installation Guide – SAP Solution Manager	► service.sap.com/instguides ➔ ► <i>SAP Components</i> ► <i>SAP Solution Manager</i> ►
Master Guides	
SAP NetWeaver 7.4	service.sap.com/installNW74 ➔
SAP NetWeaver 7.3 Including Enhancement Package 1	service.sap.com/installNW73 ➔
Upgrade Master Guides	
SAP NetWeaver	service.sap.com/instguides ➔
Component Upgrade Guides	
SAP NetWeaver	service.sap.com/instguides ➔

A.2 List of SAP Notes

The following table lists the SAP Notes mentioned in this document:

Table 19

SAP Note	Title
2238445 ➔	Integration of Supply Chain Execution Platform Applications to SAP S/4HANA, on-premise edition
2065366 ➔	Release Information Note: SAP Fiori for SAP EM 1.0

SAP Note	Title
2074814 	SAP Event Management 9.2: Online Documentation Corrections
2035730 	Implementation recommendations for SAP Event Management 9.2
2050605 	SAP Event Management 9.2 Installation/Upgrade
1846034 	SAP Visual Business 2.1: Information about patches
2001502 	SAP Visual Business: Clients for T&L Co-deployment
1874939 	SAP Business Suite for SAP NetWeaver Hub Systems
1812713 	Add-on compatibility of SAP NW AS ABAP 7.4 for Suite on HANA
677373 	Release Information Visibility Processes
811923 	Generating the SAP Solution Manager Key
1388258 	Version Interoperability Within the SAP Business Suite
839402 	Problems with Non-Unicode System Landscapes
1359215 	Technical Prerequisites for Using Enterprise Services
1224284 	Enterprise Services, Installing and Accessing the SOA Docu
1515223 	SAP NetWeaver Process Integration: Release Recommendation
1556383 	BI Content 705 Delta Upgrade
1678780 	BI_CONT 7.06: Information about installation and upgrade
1321293 	Installation / Upgrade BI_CONT / BI_CONT_XT 7x7
1324838 	Enhancement Package 5 for SAP ERP 6.0: Required SWC

A.3 Tools and Resources for Planning Your System Landscape

To plan your system landscape, you can use a few tools and resources that are available to you as SAP customer.

Tools

On SAP Service Marketplace, we provide the Business Process Repository (BPR) Viewer to look up descriptions of business scenarios and business processes.

In addition, there are tools in SAP Solution Manager that support you before, during, or after the installation of your SAP product or SAP enhancement package.

These tools include:

Table 20: Tools for Supporting Installations and Upgrades

Tool	Purpose
Solution Manager System Landscape (transaction SMSY)	To model and set up your system landscape
SAP Solution Manager Maintenance Optimizer (transaction DSWP)	To install support packages and SAP enhancement packages
Business Process Repository	To access configuration documentation, links to Customizing activities and master data transactions, specifically tailored for individual business processes, business scenarios, or implementable steps
Business Process Change Analyzer (available with SAP enhancement package 1 for SAP Solution Manager 7.0)	To analyze the effects of transports and support packages as well as activation logs for business functions

Note

SAP recommends that you use SAP Solution Manager 7.1, SPS 10 or higher.

For more information, see SAP Service Marketplace at service.sap.com/solutionmanager.

SAP Solution Manager: Implementation Content

To get implementation content that supports you during the configuration of your business processes and business scenarios, you need the SAP Solution Manager add-on *Implementation Content* ST-ICO 150_700 (SP38).

Landscape Verification for SAP Solutions Manager

To verify and correct your system landscape SAP highly recommends that you use Landscape Verification 1.0 for SAP Solution Manager 7.0, which is an add-on to your SAP Solution Manager 7.0 system. This add-on allows you to identify and correct issues in your SAP Solution Manager landscape (transaction SMSY) before they cause problems, for example during a system update. Examples for errors are a missing connection to the System Landscape Directory or the wrong assignment of products to technical systems. For each type of error, a generic description for the solution is provided.

For more information about the landscape verification add-on, see SDN at www.sdn.sap.com/irj/sdn  [Application Lifecycle Management > Technical Enablement > Update and Upgrade > Related Areas on Upgrade and Update Management > Landscape Verification](https://www.sdn.sap.com/irj/sdn/alm?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d) (www.sdn.sap.com/irj/sdn/alm?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d).

Planning Guide – SAP Business Suite Landscape Implementation

To get an overview of the necessary steps for planning a system landscape, use the *Planning Guide - SAP Business Suite Landscape Implementation* on SAP Service Marketplace at service.sap.com/instguides under [SAP Business Suite Applications](#). The guide also provides you with more information about the following:

- Examples of reference system landscapes
- Planning tools such as the business process repository
- Deployment options
- Typical implementation process

A.3.1 Business Process Repository (BPR) Viewer

The business process repository viewer (BPR viewer) is a tool on SAP Service Marketplace that allows you to preview the existing business scenarios, business processes that are shipped as part of SAP Solution Manager content. You can make use of the information in SAP Solution Manager during your implementation project by taking the pre-delivered implementation content as the starting point for your project scope. The implementation content is delivered with the following assigned information:

- Description of the business scenario, process, or implementable step
- Configuration content (Customizing activities or configuration documentation)

A.3.2 Using the BPR Viewer

Procedure

Calling Up the BPR Viewer

You can call up the BPR viewer directly using the Internet address implementationcontent.sap.com/bpr. Alternatively, you can also call up the Internet address service.sap.com/bpr first, to see more background information about the BPR viewer and additional material on SAP Service Marketplace.

Working with the BPR Viewer

To call up information about business scenarios, business processes, or implementable steps, navigate the following paths in the BPR viewer:

Table 21

BPR Object	Location
Business scenario	Under <i>Solutions/Applications</i>
Business process	Under <i>Organizational Areas</i>
Implementable step	Under <i>Solutions/Applications</i>

For each business scenario, business process, or implementable step, you can select between different versions that depend on varying components and releases. To display the descriptions of a business scenario, business process, or implementable step, choose the *Documentation* tab page. To display configuration documentation, choose the *Configuration* tab page.

i Note

The BPR Viewer displays all descriptions, but only a selection of the configuration documentation. To view all configuration documentation, install and use SAP Solution Manager at your customer site.



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