SAP Enhancement Package 4 for SAP Supply Chain Management 7.0
Using SAP NetWeaver 7.5
Terms for Included Open Source Software

This SAP software contains also the third party open source software products listed below. Please note that for these third party products the following special terms and conditions shall apply.
Documentation on the SAP Service Marketplace

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

© Copyright 2016 SAP SE or an SAP affiliate company. All rights reserved.
## Typographic Conventions

Table 1

<table>
<thead>
<tr>
<th>Example</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; &gt;</td>
<td>Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, “Enter your &lt;User Name&gt;”.</td>
</tr>
<tr>
<td>▶▶▶</td>
<td>Arrows separating the parts of a navigation path, for example, menu options</td>
</tr>
<tr>
<td>Example</td>
<td>Emphasized words or expressions</td>
</tr>
<tr>
<td>Example</td>
<td>Words or characters that you enter in the system exactly as they appear in the documentation</td>
</tr>
<tr>
<td>Example [WWW]</td>
<td>Textual cross-references to an internet address, for example, <a href="http://www.sap.com">www.sap.com</a> [WWW]</td>
</tr>
<tr>
<td>/example</td>
<td>Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web</td>
</tr>
<tr>
<td>123456 [WWW]</td>
<td>Hyperlink to an SAP Note, for example, SAP Note 123456 [WWW]</td>
</tr>
</tbody>
</table>
| 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 |
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 service.sap.com/instguides.

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>2016-01-27</td>
<td>Initial</td>
</tr>
<tr>
<td>1.1</td>
<td>2016-05-04</td>
<td>Updated links in the following sections:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Important SAP Notes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Overall Implementation Sequence</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Related Information</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Implementation of the Installation Process</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Planning for Installation, Update, and Upgrade Processes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Using SAP HANA</td>
</tr>
</tbody>
</table>
# Content

## 1 Getting Started
- 1.1 About this Document .......................................................... 7
- 1.2 Related Information .................................................................. 8
- 1.3 Main Implementation Processes and Related Documentation .............. 10
  - Planning for Installation, Update, and Upgrade Processes ..................... 11
  - Implementation of the Installation Process ........................................... 14
- 1.4 Installation Information .......................................................... 17
- 1.5 Important SAP Notes .............................................................. 18

## 2 Using SAP HANA
- 2.1 Technical System Landscape Using SAP HANA ................................ 22
- 2.2 Installation Process Using SAP HANA: Overview ................................. 23
- 2.3 Update/Upgrade and Migration Process: Overview ............................. 24

## 3 SAP Supply Chain Management Overview
- 3.1 Software Units of SAP Supply Chain Management ............................ 27
  - SAP Supply Chain Management Server (SAP SCM Server) .................... 28
  - SAP Extended Warehouse Management (SAP EWM) .......................... 29
  - SAP Event Management (SAP EM) .................................................... 29
  - SAP SCM Optimizer ........................................................................... 29
  - SAP liveCache ................................................................................... 30
  - Additional Software Units ................................................................. 30
- 3.2 Enhancement Package Key Concept ............................................... 31
- 3.3 Key Facts About Enhancement Packages .......................................... 33
- 3.4 Software Component Matrix ......................................................... 34
- 3.5 System Landscape ........................................................................ 34
- 3.6 Overall Implementation Sequence .................................................. 35
- 3.7 Integration of SAP BusinessObjects ................................................ 36

## 4 Business Processes of SAP SCM

## 5 Solution-Wide Topics
- 5.1 SAP Solution Manager ............................................................... 40
- 5.2 Extended Implementation Content in SAP Solution Manager ................ 40
- 5.3 Service-Oriented Architecture (SOA)
  - Service Enablement ............................................................................ 41
  - Installation of the Service-Oriented Architecture (SOA) ......................... 42
  - Related Documentation ...................................................................... 43

## A Appendix
- A.1 Tools and Resources for Planning Your System Landscape ................. 44
  - Business Process Repository (BPR) Viewer .......................................... 45
  - Using the BPR Viewer ......................................................................... 45
- A.2 Media List .................................................................................... 46

CUSTOMER
© Copyright 2016 SAP SE or an SAP affiliate company.
All rights reserved.

SAP Enhancement Package 4 for SAP Supply Chain Management 7.0

Content
1  Getting Started

1.1  About this Document

This SAP SCM Master Guide provides a central starting point for the technical implementation of SAP SCM. It contains all the information for the implementation of SAP SCM business processes.

Note
The central starting point for the **technical upgrade** of your SAP application is the Upgrade Master Guide, which you can find on SAP Service Marketplace at [service.sap.com/instguides](http://service.sap.com/instguides).

Note
This Master Guide provides only one way to implement each business process using SAP SCM 7.0 including SAP enhancement package 4.

Information in the Master Guide

Use the Master Guide to get a technical overview of SAP SCM and its processes. The Master Guide is a planning tool that helps you to design your system landscape and refers you to more detailed documentation such as the following:

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

For a general overview of the available SAP documentation, see *The Main SAP Documentation Types* in the Appendix.

Content

Below is a summary of the core sections of this guide that you can refer to during the implementation of the business processes.

- The **Getting Started** contains valuable information about using this document and related information (documentation and SAP Notes) crucial to the installation and upgrade.
- **SAP Supply Chain Management Overview [page 27]**
  - The **Software Units of SAP SCM** provides the information about which software units are part of SAP SCM.
  - **System Landscape** provides an overview of a possible system landscape and also provides installation information.
- **Solution-Wide Topics [page 40]** provides information about SAP Solution Manager.
- In **Appendix**, you can find an overview of all required documentation referenced in this Master Guide.
Note
You can find the most current information about the technical implementation of SAP SCM and the latest installation and configuration guides on SAP Service Marketplace at service.sap.com/instguides. We strongly recommend that you use the documents available here. The guides are regularly updated.

SAP Fiori apps
For more information regarding SAP Fiori apps, see SAP Library at help.sap.com/scm under SAP Fiori for SAP SCM.

Constraints
This Master Guide primarily discusses the overall technical implementation of SAP SCM than its subordinate components. This means that additional software dependencies might exist without being mentioned explicitly in this document. You can find more information on component-specific software dependencies in the corresponding installation guides.

1.2 Related Information
Planning Information and Further Useful Links
The following table contain links to crucial information for implementing SAP SCM:

<table>
<thead>
<tr>
<th>Content</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Latest version of installation and update guides for SAP components</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>General information about SAP SCM</td>
<td>service.sap.com/scm</td>
</tr>
<tr>
<td>Sizing, calculation of hardware requirements – such as CPU, disk and</td>
<td>service.sap.com/quicksizer</td>
</tr>
<tr>
<td>memory resource – with the Quick Sizer tool</td>
<td></td>
</tr>
<tr>
<td>Released platforms and technology-related topics such as maintenance</td>
<td>service.sap.com/platforms</td>
</tr>
<tr>
<td>strategies and language support</td>
<td></td>
</tr>
<tr>
<td>Platform Availability Matrix</td>
<td>support.sap.com/pam</td>
</tr>
<tr>
<td>Information about network security – SAP Security Guides</td>
<td>service.sap.com/securityguide</td>
</tr>
<tr>
<td>Information about high availability</td>
<td><a href="http://www.sdn.sap.com/irj/sdn/netweaver">www.sdn.sap.com/irj/sdn/netweaver</a></td>
</tr>
<tr>
<td>Performance</td>
<td>service.sap.com/performance</td>
</tr>
<tr>
<td>Information about Support Package Stacks, latest software versions,</td>
<td>support.sap.com/sp-stacks</td>
</tr>
<tr>
<td>and patch level requirements</td>
<td></td>
</tr>
<tr>
<td>Information about Unicode technology</td>
<td><a href="http://www.sdn.sap.com/irj/sdn/i18n">www.sdn.sap.com/irj/sdn/i18n</a></td>
</tr>
</tbody>
</table>
Related Master Guides

This Master Guide is based on Component Master Guides. The documents listed in the following table contain detailed information about the relevant components:

Table 4: List of Related Master Guides

<table>
<thead>
<tr>
<th>Content</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAP Enterprise Resource Planning (SAP ERP)</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>SAP Advanced Planning and Optimization (SAP APO)</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>SAP Extended Warehouse Management (SAP EWM)</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>SAP Supply Network Collaboration (SAP SNC)</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>SAP Event Management (SAP EM)</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>SAP Customer Relationship Management (SAP CRM)</td>
<td>service.sap.com/instguides</td>
</tr>
<tr>
<td>Industry Upgrade Master Guides</td>
<td>service.sap.com/instguides</td>
</tr>
</tbody>
</table>

Note

Make sure to check the SAP NetWeaver Upgrade Master Guide of the SAP NW upgrade target release if you are planning a NetWeaver upgrade. It contains specific information about SAP NetWeaver prerequisites, upgrade paths and upgrade dependencies. You find the guides for the SAP NetWeaver Platform on the SAP Help Portal at help.sap.com/netweaver.

CUSTOMER

© Copyright 2016 SAP SE or an SAP affiliate company. All rights reserved.
1.3 Main Implementation Processes and Related Documentation

The following processes are the most important implementation processes for installing, updating, and upgrading SAP NetWeaver server-based SAP applications:

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

Each of the implementation processes consists of a planning phase and an implementation phase. Each phase is divided into steps that describe the processes in detail. Each step contains references to the corresponding documentation to ensure that you can easily find the information you need.

The process sequences give a comprehensive overview of all possible steps. You only need to select the steps that are relevant for your requirements.

Note
If you have already decided which business scenarios and business functions to implement, you can ignore the corresponding step in the planning phase of the installation, update, or upgrade process sequences.

The following figure shows the Application Lifecycle Management phases, the associated user profiles, and how they map to the slightly simplified planning and implementation phases described in the sections linked below:

For more information about Application Lifecycle Management, see support.sap.com/solution-manager/processes.html.

The processes that are relevant for an installation are described in the following sections:

- Planning for Installation, Update, and Upgrade Processes [page 11]
- Implementation of the Installation Process [page 14]
1.3.1 Planning for Installation, Update, and Upgrade Processes

The planning phase is the general starting point for any kind of enhancement package implementation project. The detailed definition of your scope and requirements is the key success factor for a smooth project. You discover new developments and functions to find out which solution best suits your needs and you cover the business aspects as well as the technical aspects of your implementation.

The table below lists the topics you need to consider in the planning phase with references to relevant documentation. You have to look into those steps that are relevant for your requirements.

### Note
How to read the table:
- The first column contains the name of the process step.
- The middle column contains a short description of the step and some documentation references that are always followed by a number in square brackets, for example, [1]. This number corresponds with the same number in a list in the third column, for example 1.
- The third column contains the full title of the documents referred to in the middle column, as well as where to find them. The documents are numbered in the same way as in the middle column.

#### Table 5: Planning Steps

<table>
<thead>
<tr>
<th>Step</th>
<th>Step Description</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope and Requirements</td>
<td>Define your business scope, such as business scenarios and business functions you want to use.</td>
<td>1. service.sap.com/scm-ehp&lt;br&gt;2. solutionbrowser.erp.sap.fmpmedia.com&lt;br&gt;3. help.sap.com/scmserver</td>
</tr>
<tr>
<td></td>
<td>You can find information about scope topics at the Enhancement Package Info Center [1].</td>
<td>SAP Enhancement Package 4 for SAP SCM 7.0 &gt; SAP Supply Chain Management &gt; &lt;SCM component&gt;</td>
</tr>
<tr>
<td></td>
<td>The SAP Solution Browser Tool gives you a summary of key functional changes between two releases or SAP enhancement packages [2].</td>
<td></td>
</tr>
<tr>
<td></td>
<td>You can find detailed information about business functions on the SAP Help Portal [3].</td>
<td></td>
</tr>
<tr>
<td>Dependencies to Other Systems in the Landscape</td>
<td># Note Relevant for upgrades and updates.</td>
<td>support.sap.com/release-upgrade-maintenance/upgrade-info.html</td>
</tr>
<tr>
<td>Step</td>
<td>Step Description</td>
<td>Documentation</td>
</tr>
<tr>
<td>------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td></td>
<td>The upgrade of one SAP system might have an impact on other systems in your system landscape. Check whether such dependencies exist using the Upgrade Dependency Analyzer.</td>
<td></td>
</tr>
<tr>
<td>Landscape Planning</td>
<td>If you want to change or modify your existing system landscape, make yourself familiar with the available system landscape options. For detailed information about business landscape options, use the Planning Guide - SAP Business Suite Landscape Implementation.</td>
<td>service.sap.com/instguides &gt; Installation &amp; Upgrade Guides &gt; SAP Business Suite Applications &gt; SAP SCM &gt; Using SAP Enhancement Package 4 for SAP SCM Server 7.0. For more information, see SAP Note 1388258.</td>
</tr>
<tr>
<td>Business Functions</td>
<td>Identify the business functions that you wish to activate based on your business needs. <strong>Caution</strong> It is not possible to uninstall an enhancement package. Furthermore, you cannot revoke the activation of most business functions and it is only possible to transport complete business function switch settings across your system landscape. For these reasons, we recommend testing the business functions thoroughly in a dedicated evaluation system (not the development system), until you are sure that you definitely want to use them. It makes sense to use a copy of your production system as evaluation system.</td>
<td>help.sap.com/scmserver &gt; SAP Enhancement Package 4 for SAP SCM 7.0 &gt; SAP Supply Chain Management &gt; &lt;SCM component&gt;</td>
</tr>
<tr>
<td>Hardware &amp; Software Prerequisites</td>
<td>Check the availability of the required SPs or SP stack of the application as well as for the corresponding SAP NetWeaver release are available. The upgrade stops if the equivalent support package of the target release is missing. It is not a prerequisite and not recommended to implement the latest SP stack in your source system before doing an upgrade or EHP implementation.</td>
<td>1. SP Stack notes:  ○ SAP Note 850038 (SAP SCM)  ○ SAP Note 789220 (SAP NetWeaver) 2. service.sap.com/instguides &gt; SAP Business Suite Applications &gt; SAP SCM &gt; Using SAP Enhancement Package 4 for SAP SCM Server 7.0 &gt; Upgrade Guides &gt; Upgrade and Update Guides for SAP EHP4 for SAP SCM 7.0 &gt; Software Update Manager Guides</td>
</tr>
<tr>
<td>Step</td>
<td>Step Description</td>
<td>Documentation</td>
</tr>
<tr>
<td>------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>The support package equivalence levels are described in SAP Notes [1]. The SP stack implementation is also described in the Software Update Manager guide [2]. For more information about SP stack strategy and the release schedule, see the SAP Service Marketplace [3].</td>
<td>3. support.sap.com/sp-stacks</td>
<td></td>
</tr>
<tr>
<td>Check which platforms are supported for your target release (OS/DB dependencies) with the Product Availability Matrix.</td>
<td>support.sap.com/pam</td>
<td></td>
</tr>
<tr>
<td>Check which hardware sizing is required for your target release.</td>
<td>service.sap.com/sizing</td>
<td></td>
</tr>
</tbody>
</table>
| **Solution Manager Prerequisites** | Make sure that your SAP Solution Manager system has one of the following support package (SP) levels with the associated content release:  
- SAP Solution Manager 7.01 SP Stack 23  
- SAP Solution Manager 7.1 SP Stack 01  
- Content: ST-ICO 150_700 SP 31 | All SAP Solution Manager guides are available at: service.sap.com/instguides > Installation & Upgrade Guides > SAP Components > SAP Solution Manager > Release 7.0 EHP1 (or Release 7.1).  
1. [Upgrade Guide – SAP Solution Manager 7.0 incl. Enhancement Package 1](service.sap.com/instguides)  
2. [Update Guide SAP Enhancement Package 1 for SAP Solution Manager 7.0](service.sap.com/instguides)  
3. [Solution Operations Guide – SAP Solution Manager 7.0 EHP1](service.sap.com/instguides) |

**Note**  
The use of the Solution Manager Content is recommended, not mandatory.

Check if you need to do an update or upgrade of your SAP Solution Manager application or content and select your required upgrade or update:  
- Upgrade from source releases SAP Solution Manager 3.1 and 3.2. [1]  
- Update from source releases SAP Solution Manager 7.0. [2]  
After an upgrade or update to SAP Solution Manager 7.0 EHP1, you need to do follow-up actions described in the section Software Change Management of the Solution Operations Guide. [3]
Step Description

Add-on Compatibility
If you want to use add-ons, check their compatibility with your target release.

Testing
You perform regression and acceptance tests. After the installation of an SAP enhancement package, you find additional information with the help of the Impact Analyzer tool [2] and you can access test cases for individual business functions [3].

Note
Switch BC Sets are also delivered with business functions. They are automatically unpacked when you activate the business function.

1. To use the Impact Analyzer, call transaction SFW5 and right-click a business function.
2. To access test cases, call transaction SFW5 and view the test cases in column SAP Test Catalog.

1.3.2 Implementation of the Installation Process

The table below lists the steps for a new installation of an SAP system including an enhancement package. The table lists all possible steps with references to the documentation relevant for each step. You have to look into those steps that are relevant for your requirements.

How to read the table:
- The first column contains the name of the process step.
- The middle column contains a short description of the step and some documentation references that are always followed by a number in square brackets, for example, [1]. This number corresponds with the same number in a list in the third column, for example 1.
- The third column contains the full title of the documents referred to in the middle column, as well as where to find them. The documents are numbered in the same way as in the middle column.

Table 6: Installation Steps

<table>
<thead>
<tr>
<th>Step Sequence</th>
<th>Step Description</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 System Preparation</td>
<td>Prepare your host systems, for example:</td>
<td>All guides are found at: <a href="https://service.sap.com/instguides">service.sap.com/instguides</a> &gt; SAP Business Suite Applications &gt; SAP SCM &gt; SAP SCM Server &gt; Using SAP Enhancement Package 4 for SAP SCM Server 7.0</td>
</tr>
<tr>
<td></td>
<td>• Install and update your operating system.</td>
<td>1. <a href="https://service.sap.com/instguides">Installation Guides</a> &gt; Installation Guides for SAP EHP 4 for SAP SCM 7.0 &gt; Generic</td>
</tr>
<tr>
<td></td>
<td>• Create the file systems.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Check database requirements.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>You can find this information in the Planning and Preparation sections of the relevant installation tool guides [1] and in the installation information</td>
<td></td>
</tr>
<tr>
<td>Step Sequence</td>
<td>Step Description</td>
<td>Documentation</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>1</td>
<td>Installation Media</td>
<td>Make the required installation media (physical or downloaded media) available. A list of the installation media is found in the relevant installation tool guides (section Preparation) [1] and details are provided in the SCM-specific media list [2].</td>
</tr>
<tr>
<td>2</td>
<td>Installation Media</td>
<td>The installation guide is found at: service.sap.com/instguides ➤ SAP Business Suite Applications ➤ SAP SCM ➤ SAP SCM Server ➤ Using SAP Enhancement Package 4 for SAP SCM Server 7.0 ➤ Installation Guides ➤ Installation Guides for SAP EHP 4 for SAP SCM 7.0 ➤ Generic Installation Guides - ABAP based on SAP NetWeaver 7.5 [2]. You can download installation media from the SAP Software Download Center (SWDC) on the SAP Service Marketplace at support.sap.com/swdc. Note: Since the material numbers of DVDs, CDs, and archives may change when they are updated, we recommend that you visit the SWDC to make sure that you always use the most recent version of the indicated data carriers.</td>
</tr>
<tr>
<td>3</td>
<td>Installation</td>
<td>If required, install the database with the DB-specific installer. Run SAPInst to install your system. This is described in the relevant installation tool guides [1]. Check also the SCM-specific installation information of this document (the application Master Guide) [2]. All guides are found at: service.sap.com/instguides ➤ SAP Business Suite Applications ➤ SAP SCM ➤ SAP SCM Server ➤ Using SAP Enhancement Package 4 for SAP SCM Server 7.0 [2]. 1. Installation Guides for SAP EHP 4 for SAP SCM 7.0 ➤ Generic Installation Guides - ABAP based on SAP NetWeaver 7.5 [2]. 2. Installation Information [page 17]</td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>If required, you install BI Content as an add-on as described in the relevant SAP Note. SAP Note 1000822 [2].</td>
</tr>
<tr>
<td>Step Sequence</td>
<td>Step Description</td>
<td>Documentation</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------</td>
<td>---------------</td>
</tr>
<tr>
<td>Content Installation</td>
<td>Information on compatible add-ons can be found in the relevant installation SAP Notes.</td>
<td>SAP Note 2225318</td>
</tr>
<tr>
<td>Add-On Installation</td>
<td>To set up your SAP Solution Manager application, perform the following steps:</td>
<td>1. Maintenance Planner at wiki.scn.sap.com/wiki/display/SM/Maintenance+Tools%3A+Maintenance+Planner+and+Maintenance+Optimizer</td>
</tr>
<tr>
<td>7</td>
<td>2. Transfer system data from SLD to the SAP Solution Manager.</td>
<td>3. <a href="http://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</a></td>
</tr>
<tr>
<td>7</td>
<td>3. Check the landscape data with the Landscape Verification tool.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>4. Create a maintenance transaction in SAP Solution Manager to calculate support packages and packages for technical usages.</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>These steps are described in this document (the application Master Guide) [1].</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>For more information, see the SAP Developer Network:</td>
<td>1. SP Stack notes:</td>
</tr>
<tr>
<td>7</td>
<td>● SLD information [2]</td>
<td>○ SAP Note 850038 (SAP SCM)</td>
</tr>
<tr>
<td>7</td>
<td>● Landscape Verification tool [3]</td>
<td>○ SAP Note 789220 (SAP NetWeaver)</td>
</tr>
<tr>
<td>Support Package Installation</td>
<td>The support package (SP) equivalence levels are described in SAP Notes [1].</td>
<td>2. support.sap.com/sp-stacks</td>
</tr>
<tr>
<td>8</td>
<td>Create a maintenance transaction in SAP Solution Manager to calculate support packages and packages for technical usages [2]. Install them as needed.</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>For more information about SP stack strategy, see the SAP Service Marketplace [3].</td>
<td></td>
</tr>
<tr>
<td>Note</td>
<td>If you have modified SAP code in your system, do not separate the installation of the SP stack and the installation of the SAP enhancement package into two steps. This would mean having to perform the modification adjustment twice (and partially for the same objects).</td>
<td></td>
</tr>
<tr>
<td>Configuration</td>
<td>Configure new functions, for example new business functions, with the Solution Manager content [1].</td>
<td>1. See the step Solution Manager Prerequisites in the planning section for the correct SAP Solution Manager content release.</td>
</tr>
</tbody>
</table>
### 1.4 Installation Information

The installation process is a generic process which is described in the following guide:

<table>
<thead>
<tr>
<th>Step Sequence</th>
<th>Step Description</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Note</td>
<td>The use of the Solution Manager Content is recommended, not mandatory.</td>
<td>2. <a href="http://help.sap.com">help.sap.com</a> (\Rightarrow) SAP Solution Manager &lt;version&gt;</td>
</tr>
</tbody>
</table>

1. **Testing**

Perform regression and acceptance tests.

For more information, see the table entry **Testing** in the section on Planning for Installation, Update, and Upgrade Processes [page 11] of this guide.

---

#### Media list

The media list contains the list of relevant installation media which you need to have available when you start the installation.

You can download installation media from the SAP Software Download Center (SWDC) on the SAP Service Marketplace at [support.sap.com/swdc](http://support.sap.com/swdc).

**Note**

Since the material numbers of DVDs, CDs, and archives may change when they are updated, we recommend that you visit the SWDC to make sure that you always use the most recent version of the indicated data carriers.

#### SAP SCM Server installation

You select the option *SAP Application Server ABAP for Enhancement Package 4 for SAP SCM 7.0* when you are asked to choose the installation option. All relevant ABAP components are then installed by the installation tool.

For more information about the installation procedures, see [service.sap.com/instguides](http://service.sap.com/instguides) \(\Rightarrow\) Installation & Upgrade Guides \(\Rightarrow\) SAP Business Suite Applications \(\Rightarrow\) SAP SCM \(\Rightarrow\) SAP SCM Server \(\Rightarrow\) Using SAP Enhancement Package 4 for SAP SCM Server 7.0 \(\Rightarrow\) Installation Guides \(\Rightarrow\) Installation Guides for SAP EHP4 for SAP SCM Server 7.0 \(\Rightarrow\) Generic Installation Guides.

#### Post-installation steps

See SAP Note [2225535](http://notes.sap.com/2225535).
1.5 Important SAP Notes

This section contains important SAP Notes for SAP SCM.

**Caution**
Read the SAP Installation Notes before you start the installation. These notes contain the most recent information about the installation, as well as changes to the installation documentation.

Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at [support.sap.com/notes](https://support.sap.com/notes).

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>811923</td>
<td>Generating the SAP Solution Manager key</td>
</tr>
<tr>
<td>836200</td>
<td>SAP NetWeaver 7.0: Importing Process Integration Content</td>
</tr>
<tr>
<td>2171392</td>
<td>EHP4 for SAP SCM 7.0 SP stacks · Release &amp; Information Note</td>
</tr>
<tr>
<td>2238445</td>
<td>Integration of Supply Chain Execution Platform Applications to SAP S/4HANA, on-premise edition</td>
</tr>
<tr>
<td>850038</td>
<td>Support Package levels for SCM/APO installations/upgrades</td>
</tr>
<tr>
<td>1224284</td>
<td>Enterprise Services, Installing and Accessing the SOA Docu</td>
</tr>
<tr>
<td>1371027</td>
<td>Delivery of TERM and GLOSSARY Texts in SAP_BASIS 7x Products</td>
</tr>
<tr>
<td>1388258</td>
<td>Version Interoperability within the SAP Business Suite</td>
</tr>
<tr>
<td>1515223</td>
<td>SAP NetWeaver Process Integration: Release Recommendation</td>
</tr>
<tr>
<td>2225535</td>
<td>Post-Installation Steps for SAP SCM EHP4</td>
</tr>
<tr>
<td>22303830</td>
<td>SAP Enhancement Package 4 for SAP SCM 7.0: Compatible Add-on</td>
</tr>
</tbody>
</table>
2 Using SAP HANA

SAP is enabling the existing functions of SAP enhancement package 4 for SAP SCM 7.0 for SAP HANA to utilize the in-memory technology and enable better performing business applications. Thereby, business applications can manage large data volumes faster. SAP HANA comprises the required hardware as well as the SAP HANA appliance software (SAP HANA database and data replications tools, for example).

This section provides an overview on SAP-HANA-specific information.

Note that the SAP HANA appliance software can only be installed by certified hardware partners on validated hardware running a specific operating system.


Related Information

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

Table 8

<table>
<thead>
<tr>
<th>Content</th>
<th>Location on SAP Service Marketplace</th>
</tr>
</thead>
<tbody>
<tr>
<td>Information about SAP HANA</td>
<td>service.sap.com/hana</td>
</tr>
<tr>
<td></td>
<td>help.sap.com/hana_appliance</td>
</tr>
<tr>
<td>Additional information on SAP HANA</td>
<td><a href="http://www.saphana.com/">www.saphana.com/</a></td>
</tr>
</tbody>
</table>

Related Guides

You can find more information about the relevant applications in the following documents:

Table 9

<table>
<thead>
<tr>
<th>Guide</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Guides for SAP HANA Appliance Software</td>
<td>help.sap.com/hana_appliance</td>
</tr>
<tr>
<td>Installation Guides for SAP EHP 4 for SAP SCM 7.0</td>
<td>service.sap.com/instguides &gt; Installation &amp; Upgrade Guides &gt; SAP Business Suite Applications &gt; SAP SCM &gt; SAP SCM Server &gt; Using SAP enhancement package 4 for SAP SCM Server 7.0 &gt; Installation Guides &gt; Installation Guides for SAP EHP 4 for SAP SCM 7.0</td>
</tr>
</tbody>
</table>
Important SAP Notes

You must read the following SAP Notes before you start the implementation. These SAP Notes contain the most recent information on the implementation, as well as corrections to the implementation documentation.

Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at [support.sap.com/notes](http://support.sap.com/notes).

Table 10

<table>
<thead>
<tr>
<th>SAP Note Number</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1514967</td>
<td>SAP HANA: Central Note</td>
<td>Central SAP Note about the SAP HANA appliance software and the SAP HANA database</td>
</tr>
<tr>
<td>1514966</td>
<td>SAP HANA 1.0: Sizing SAP In-Memory Database</td>
<td>Sizing information about the SAP HANA database</td>
</tr>
<tr>
<td>1826100</td>
<td>Multiple applications SAP Business Suite powered by SAP HANA</td>
<td>Support and special considerations for multiple applications on a single SAP HANA system within SAP Business Suite powered by SAP HANA.</td>
</tr>
<tr>
<td>1681092</td>
<td>Multiple SAP HANA databases on one appliance</td>
<td>Support and special considerations for multiple SAP HANA databases on a single SAP HANA appliance.</td>
</tr>
<tr>
<td>855534</td>
<td>Dual Stack and SAP Business Suite 7</td>
<td>Implementation of Dual Stack with SAP Business Suite 7</td>
</tr>
<tr>
<td>SAP Note Number</td>
<td>Title</td>
<td>Description</td>
</tr>
<tr>
<td>-----------------</td>
<td>-------</td>
<td>-------------</td>
</tr>
<tr>
<td>1686144</td>
<td>Dual-Stack Split 2.0 SP2 for Systems Based on SAP NetWeaver</td>
<td>Dual-Stack Split 2.0 SP2 for Systems Based on SAP</td>
</tr>
<tr>
<td>1655335</td>
<td>Use Cases for Splitting Dual-Stack Systems</td>
<td>Contains use Cases for splitting dual-stack systems</td>
</tr>
<tr>
<td>1785057</td>
<td>Recommendations for migrating Suite systems to SAP HANA</td>
<td>Contains recommendations for migrating suite systems to SAP HANA.</td>
</tr>
<tr>
<td>1794297</td>
<td>Secondary indexes for the Business Suite on HANA</td>
<td>Contains recommendations for migrating suite systems to SAP HANA.</td>
</tr>
<tr>
<td>1787787</td>
<td>IMS for Suite on HANA</td>
<td>This SAP Note contains information about transparent tables after migration to SAP HANA.</td>
</tr>
<tr>
<td>1051576</td>
<td>Conversion of Single Code Page Systems to Unicode</td>
<td>This SAP Note contains information about conversion to Unicode (including references to additional notes describing the conversion to Unicode from ambiguous blended code page systems).</td>
</tr>
<tr>
<td>1309506</td>
<td>SPAM/SAINT with parallel R3trans</td>
<td>This SAP Note provides information about applying add-ons and support packages.</td>
</tr>
<tr>
<td>1778621</td>
<td>Sequence problem in EDID4 after declustering</td>
<td></td>
</tr>
<tr>
<td>928729</td>
<td>Combined Upgrade &amp; Unicode Conversion (CU &amp; UC)</td>
<td></td>
</tr>
<tr>
<td>1822975</td>
<td>Migrating SAP SCM including SAP NW BW 7.5 to SAP HANA</td>
<td>This SAP Note contains information about what you need to do to preserve aggregates for SAP APO after the migration to SAP HANA</td>
</tr>
<tr>
<td>1695112</td>
<td>Activities in BW after migrating to the SAP HANA</td>
<td></td>
</tr>
<tr>
<td>1793153</td>
<td>Usage of cProjects / cFolders and Workforce Mgmt</td>
<td></td>
</tr>
<tr>
<td>1791482</td>
<td>Unique indexes display as non-unique indexes</td>
<td></td>
</tr>
<tr>
<td>1754729</td>
<td>SHDB: Konsistenzprüfungen auf verteilten HANA</td>
<td></td>
</tr>
<tr>
<td>1756099</td>
<td>RSHDB: Consistency check for tables (7.30 SP9)</td>
<td></td>
</tr>
</tbody>
</table>
### SAP Note Number | Title                                                                 | Description                                                                 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1827752</td>
<td>Planning Object Structure Persistence Changes on SAP HANA</td>
<td>Describes the reasons and background to POS persistence changes.</td>
</tr>
<tr>
<td>1818080</td>
<td>Planning Object Structure migration report: DSO persistence</td>
<td>This SAP Note contains information about the report <em>Migrate Planning Object Structures to DataStore Object Persistence</em> (/SCMB/PSTRU_MIGRATION_TO_DSO).</td>
</tr>
<tr>
<td>1810952</td>
<td>SAP HANA LCAPPS 1.00 release information</td>
<td></td>
</tr>
<tr>
<td>1825703</td>
<td>Migrating SCM to SAP HANA with integrated SAP HANA</td>
<td></td>
</tr>
<tr>
<td>1871831</td>
<td>Installation of SCM 7.04 on HANA with integrated liveCache</td>
<td></td>
</tr>
</tbody>
</table>

## 2.1 Technical System Landscape Using SAP HANA

*Note*

- SAP enhancement package 4 for SAP SCM 7.0 does not contain any Java components.
- SAP HANA runs natively on Unicode only. If your system is not yet running on Unicode, consider doing the conversion separately before migrating to SAP HANA. The Unicode conversion could technically be done during the database migration (that is, during the heterogeneous system copy), but preparatory steps are required as described in SAP Note 1051576.

The following figure shows one deployment option for SAP SCM. The ABAP stack runs on a SAP HANA database, while SAP liveCache and SCM Optimizer run outside of SAP HANA. In this option, SAP liveCache is installed as in all previous releases, as a separate instance, not on an SAP HANA database but on SAP MaxDB technology.

*Note*

You have to use an SAP HANA integrated liveCache. Using a standalone liveCache server is not supported.

The following figure shows another deployment option for SAP SCM. The ABAP stack runs on an SAP HANA database, together with an integrated SAP liveCache, while SCM Optimizer runs outside of SAP HANA.
The following software components are either mandatory or optional for this deployment option, as indicated below.

<table>
<thead>
<tr>
<th>Component</th>
<th>Mandatory</th>
<th>Optional</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM Application Server ABAP</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>SAP liveCache</td>
<td>x</td>
<td></td>
</tr>
<tr>
<td>SCM Optimizer</td>
<td></td>
<td>x</td>
</tr>
</tbody>
</table>

**Technical Usages of SAP Enhancement Package 4 for SAP SCM 7.0**

The following table shows which technical usages and assigned product instances are available with SAP enhancement package 4 for SAP SCM 7.0:

<table>
<thead>
<tr>
<th>Technical Usage</th>
<th>Product Instance</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM</td>
<td>SAP SCM Server 714</td>
</tr>
<tr>
<td>SAP liveCache</td>
<td>SAP liveCache 10.0</td>
</tr>
<tr>
<td>SCM Optimizer</td>
<td>SAP SCM Optimizer 12.0</td>
</tr>
</tbody>
</table>

**2.2 Installation Process Using SAP HANA: Overview**

This section provides an overview of the installation process steps for SAP SCM 7.0 including SAP enhancement package 4.
Note

Note the difference between *installation*, *upgrade*, and *update*, as explained in the following table:

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>New installation of SAP SCM 7.0 including SAP enhancement package 4</td>
</tr>
<tr>
<td>Update</td>
<td>Installation of SAP enhancement package 4 on an existing SAP SCM 7.0 system</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Upgrade of an SAP SCM system lower than 7.0 to SAP SCM 7.0 including enhancement package 4</td>
</tr>
</tbody>
</table>

The installation process consists of the following steps:

1. **Install SAP HANA**
   

2. **Install SAP SCM 7.0 including SAP enhancement package 4 (ABAP components only)**
   
   The installation is done with the Software Provisioning Manager. For more information, see the Installation Guide for SAP enhancement package 4 for SAP SCM 7.0 at [service.sap.com/instguides](http://service.sap.com/instguides) > *Installation & Upgrade Guides SAP Business Suite Applications > SAP Business Suite Applications > SAP SCM > SAP SCM Server > Using SAP enhancement package 4 for SAP SCM Server 7.0*.

For the installation of SAP liveCache, you have the following options (also see the section *Technical System Landscape* in the section *Using SAP HANA*):

- SAP liveCache and SAP SCM Server are running on the same SAP HANA database instance.

   **Recommendation**
   
   We strongly recommend you to use SAP HANA with integrated liveCache as it will grant you the following advantages compared to using a different database with a MaxDB based liveCache:
   
   - Higher performance
   - Lower TCO
   - Simplified backup and recovery
   - Lower risk of data inconsistencies

- SAP SCM Server is installed on the SAP HANA database, while SAP liveCache is installed on a separate (non-HANA) server using SAP MaxDB technology.

### 2.3 Update/Upgrade and Migration Process: Overview

This section provides an overview of the update and upgrade process steps required to enable SAP enhancement package 4 for SAP SCM 7.0 to run on SAP HANA.

Note

Note the difference between *installation*, *upgrade*, and *update*, as explained in the following table:
Table 14

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation</td>
<td>New installation of SAP SCM 7.0 including SAP enhancement package 4</td>
</tr>
<tr>
<td>Update</td>
<td>Installation of SAP enhancement package 4 on an existing SAP SCM 7.0 system</td>
</tr>
<tr>
<td>Upgrade</td>
<td>Upgrade of an SAP SCM system lower than 7.0 to SAP SCM 7.0 including enhancement package 4</td>
</tr>
</tbody>
</table>

The update/upgrade process consists of the steps listed below, some of which may be optional, depending on your start release.

**Note**

Before performing the steps below, consider making a homogeneous system copy to preserve your current status, so that you have a reference or fallback system in place. You can do the system copy before any of the steps below, depending on your requirements and scheduling. For information, see the following documentation:

- System copy of systems based on SAP NetWeaver 7.3 (or higher)
  
  See the documentation for the Software Provisioning Manager at help.sap.com/sitoolset → System Provisioning → Installation Option → Guide for Systems Based on SAP NetWeaver 7.1 and Higher.

- System copy of systems based on SAP NetWeaver releases lower than 7.3
  
  See the SAP NetWeaver installation guides at service.sap.com/instguides, under Installation & Upgrade Guides → SAP NetWeaver.

1. Perform a dual-stack split

   As only ABAP components are enabled for SAP HANA, and dual-stack systems are not supported beyond Business Suite i2011 (see SAP Note 1655335), you cannot deploy a dual-stack system (with both ABAP and Java components running in the same system). If your SAP SCM system is currently implemented as a dual-stack system, you have to perform a split.

   For information on how to do a dual-stack split, see the following:
   - SAP Note 1686144
   - Tool guides at help.sap.com/sitoolset → Software Logistics Toolset 1.0

2. Upgrade or update to SAP SCM 7.0 including SAP enhancement package 4

   **Note**

   Before performing the upgrade or update, check the release information note for SAP SCM 7.0 EHP4, 2171392.

   For the available technical usages, see the section Technical System Landscape in the section Using SAP HANA.

   For more information about SAP-SCM-specific steps, see service.sap.com/instguides → Installation & Upgrade Guides → SAP Business Suite Applications → SAP SCM → SAP SCM Server → Using SAP enhancement package 4 for SAP SCM Server 7.0 → Upgrade Guides → Upgrade and Update Guides for SAP EHP4 for SAP SCM 7.0 → SCM-specific steps include, for example, the following:
   - SAP NetWeaver Business Warehouse Settings for migrating SAP SCM to an SAP HANA Database
○ Migration of planning Oobject structures to DataStore Object Persistence
○ Adjusting the installation path for SAP SCM Optimizer

3. Perform the migration to the SAP HANA database
   1. Install SAP HANA
      

   2. Perform a heterogeneous system copy
      
      To migrate your source database to the SAP HANA database, you perform a heterogeneous system copy.

      **Note**

      Data Base Migration for SAP HANA Database

      An existing SAP system is migrated to the SAP HANA database automatically using the Database Migration Option (DMO) of the Software Update Manager (SUM), which updates and migrates the database in one step. For more information, see SAP Notes [2161396](https://help.sap.com/sltoolset) and SAP Service Marketplace at [help.sap.com/sltoolset](https://help.sap.com/sltoolset) under Software Logistics Toolset 1.0. You need to use at least SPS 15 of the Software Update Manager 1.0.

      **Note**

      When planning your database migration, consider the following points:

      ○ The database migration to SAP HANA requires some preparation steps related to the database tables in your system. For example, you need to check the usage of cluster tables and pool tables, because they are automatically resolved to transparent tables during the database migration.

      ○ SAP HANA runs natively on Unicode only. If your system is not yet running on Unicode, consider doing the conversion separately before migrating to SAP HANA. The Unicode conversion could technically be done during the database migration (that is, during the heterogeneous system copy), but preparatory steps are required as described in SAP Note [1051576](https://help.sap.com/hana_appliance).

      ○ For more information about migration preparation, see SAP Note [1785057](https://help.sap.com/hana_appliance).

      **Note**

      For information about migration scenarios for SAP NetWeaver Business Warehouse from SAP HANA to other databases, see SAP Note [1718576](https://help.sap.com/hana_appliance).
3 SAP Supply Chain Management Overview

SAP Supply Chain Management (SAP SCM) can help your organization transform a linear supply chain into an adaptive supply chain network that enables you to access the knowledge and resources of your peers, to quickly adapt to changing market conditions, and to remain customer-focused.

SAP SCM enables adaptive supply chain networks by providing companies with planning and execution capabilities for managing enterprise operations. In addition, SAP SCM provides companies with coordination and collaboration technology to extend their operations beyond corporate boundaries. These capabilities are summarized below.

- **Supply Chain Planning and Collaboration**
  SAP SCM enables you to model your existing supply chain, to set goals, and to forecast, optimize, and schedule time, materials, and other resources. Supply chain planning functionality enables you to maximize your return on assets and to ensure a profitable match of supply and demand.

- **Supply Chain Execution**
  SAP SCM enables you to carry out supply chain planning in an efficient and cost effective manner. With SAP SCM, you can easily monitor and respond to demand by using a supply chain network in which distribution, transportation, and logistics are integrated into real-time planning processes.

- **Supply Chain Visibility Design and Analytics**
  By giving you visibility across your extended supply chain, SAP SCM allows you to perform strategic as well as day-to-day planning. It also enables collaboration and analytics, so you can monitor and analyze the performance of your extended supply chain.

3.1 Software Units of SAP Supply Chain Management

This section provides additional information about the most important software components units of SAP SCM as well as software components required to run SAP SCM business processes:

- **SAP enhancement package 4 for SAP SCM 7.0 (based on SAP Supply Chain Management 7.0)**
  - SAP SCM Server
    - SAP Advanced Planning and Optimization (SAP APO) 7.14
    - SAP Supply Network Collaboration (SAP SNC) 7.14
    - SAP NetWeaver 7.5 (product instance BI)
  - SAP Extended Warehouse Management (SAP EWM) 7.12
  - SAP Event Management (SAP EWM) 7.01
  - SAP SCM Optimizer 12.0
  - SAP liveCache 10.0

- **SAP enhancement package 8 for SAP ERP 6.0 (requires SAP Enterprise Resource Planning 6.0)**
- **SAP Customer Relationship Management (SAP CRM) 7.0**
- **SAP enhancement package 3 for SAP NetWeaver 7.0 (product instance PI)**
Note
Specific business processes only require a subset of these components. For a process-specific overview of components, see the section Business Processes of SAP SCM [page 39].

3.1.1 SAP Supply Chain Management Server (SAP SCM Server)

SAP Supply Chain Management Server (SAP SCM Server) is part of the SAP Supply Chain Management application suite. It is an advanced planning and scheduling tool that enables real-time decision support and collaborative network optimization across the extended supply chain. SAP SCM Server helps companies synchronize supply chain activities with their partners and excel to improve customer service and order fulfillment.

Embedded SAP BI

SAP SCM Server is shipped with an embedded SAP BI. Embedded SAP BI enhances, together with SAP liveCache, the performance of forecasting and replenishment tasks.

Note
SAP SCM Server uses the embedded SAP BI architecture for technical reasons (such as using info cubes in Demand Planning). Embedded SAP BI is not meant to be used for reporting purposes of your company.

3.1.1.1 SAP Advanced Planning and Optimization (SAP APO)

SAP Advanced Planning and Optimization (SAP APO) offers a fully integrated pallet of functions that you use to plan and execute your supply chain processes. SAP APO supports the following:

- Business planning on a strategic, tactical, and operational level
- Co-operation between partners at all stages of the supply chain process; from order receipt, stock monitoring, through final shipping of the product
- Cultivation of customer and business partner relationships
- Constant optimization and evaluation of the supply chain network’s efficiency

SAP APO uses embedded SAP BI to enhance, together with SAP liveCache, the performance of forecasting and replenishment tasks.

3.1.1.2 SAP Supply Network Collaboration (SAP SNC)

SAP Supply Network Collaboration (SAP SNC) is an application that supports participants in a complex supply chain network to collaborate efficiently with each other. SAP SNC supports, among other things, the management
of inventories by suppliers and customers, timely shipments of replenishments, and advanced shipping notification and invoice creation. It also supports forecasting processes and work order collaboration.

3.1.2 SAP Extended Warehouse Management (SAP EWM)

SAP Extended Warehouse Management (SAP EWM) is an advanced warehouse management solution that is fully integrated with SAP ERP. SAP EWM helps you gain more control over your warehousing processes and provides you with the tools needed to improve your warehouse efficiency, transform your operations, and increase your competitiveness.

SAP EWM allows for flexible and adaptive planning and coordination, in addition to execution of inbound and outbound processing, thereby consolidating the process flow across the entire supply network. SAP EWM addresses the unique requirements of fulfillment operations across all warehousing environments.

SAP EWM offers support for advanced storage and fulfillment that was only previously available in non-integrated, niche solutions; the advanced capabilities provided aim to dramatically improve service levels while reducing working capital and labor expense.

3.1.3 SAP Event Management (SAP EM)

SAP Event Management offers you the possibility to process application objects in various application systems and thereby to track events for individual objects, processes or parts of these throughout the entire supply chain. SAP Event Management can link, update and evaluate the event messages with the application data from the supply chain network.

Together with SAP Supply Network Collaboration (SAP SNC), you can use SAP Event Management to monitor processes. This is based on events that are expected in a process by specific dates/times at the latest. Delays in the actual events lead to alerts.

3.1.4 SAP SCM Optimizer

The component SAP SCM Optimizer offers optimization engines for most of the SCM applications:

You can use SAP SCM Optimizer for Detailed Production Scheduling, Supply Network Planning, Supply Demand Matching, Transportation Planning and Vehicle Scheduling, and Sequencing.

For SNP, PP/DS and the automotive solution the optimizers are optional planning methods.

The optimizers are tightly integrated into the application and work without any own persistence. Integration is administrated via the Remote-Control & Communication-Framework.

Each optimizer is working with a specialized algorithm to get the best possible planning results for the different applications.

The Optimization Extension Workbench is part of the SCM Server and allows the customer to integrate own optimization engines in parallel to the SAP Optimizer.
3.1.5  SAP liveCache

SAP liveCache for SAP SCM
SAP liveCache ensures high-speed processing of large data volumes in Supply Chain Management.

You have the following options to install the SAP liveCache:

1. SCM Server is installed on a (non-HANA) database, while SAP liveCache (based on MaxDB technology) is installed on a separate server. This configuration is called “external liveCache”.

2. SCM Server is installed on the SAP HANA database with the HANA integrated liveCache. SCM Server and SAP liveCache are running on the same database instance.

As of SCM 7.14, the configuration “SCM Server on HANA with an external liveCache” is no longer supported for new installations. Upgrades from previous SCM EHPs based on this configuration are still supported.

For more information about liveCache technology infrastructure, requirements, and performance recommendations, see SAP Service Marketplace at service.sap.com/scm.

Note
SAP liveCache applications for SAP HANA (also known as SAP LCA, LCAPPS plug-in, or SAP HANA LCAPPS) are no longer released as a part of SAP HANA Platform Edition. For more information, see SAP Note 2223318 in the Related Information section.

3.1.6  Additional Software Units

3.1.6.1  SAP Enterprise Resource Planning (SAP ERP)

The SAP ERP application supports the essential functions of your business processes and operations efficiently and are tailored to specific needs of your industry.

SAP ERP, an application included in SAP Business Suite software, delivers these solutions:

- SAP ERP Financials
- SAP ERP Human Capital Management
- SAP ERP Operations
- SAP ERP Corporate Services

3.1.6.2  SAP NetWeaver Product Instance PI

Based on a native Web infrastructure that leverages open standards, SAP NetWeaver Process Integration (SAP PI) makes it possible to manage the broad diversity of highly heterogeneous components from a multitude of vendors and to run in various technological environments. The integration capabilities capture shared business semantics and act as a mediator between the services and their technical implementations. It includes technical functions, such as Web service discovery, queuing, mapping, and routing. It also establishes an infrastructure for business process management and high-performance execution within and across organizational boundaries.

Exchange-based process integration removes the problems of direct connections by extracting shared collaboration knowledge. These shared business semantics ease the integration of both external and internal
components. Instead of directly coding point-to-point interfaces for each new component, the exchange infrastructure allows instant plug-in of new components. This provides the flexibility needed in today’s fast-changing business world, and it reduces integration costs compared to the direct connection approach.

3.1.6.3 SAP Customer Relationship Management (SAP CRM)

SAP Customer Relationship Management (SAP CRM) is a comprehensive solution for managing your customer relationships. It supports all customer-focused business areas, from marketing to sales and service, as well as customer interaction channels, such as the Interaction Center, the Internet, and mobile clients.

3.2 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.

**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 Planner, as well as the latest available Support Packages for the enhancement package.

**Tools**

The enhancement package installation requires the following tools:

- **SAP Solution Manager**
  
  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 Support Portal at [support.sap.com/solutionmanager](http://support.sap.com/solutionmanager).

- **Maintenance Planner**
  
  Through Maintenance Planner, SAP Solution Manager allows you to maintain your system landscape and plan changes in the system landscape.
To ensure availability of landscape data in Maintenance Planner, follow the steps described in the SDN Maintenance Planner – Prerequisites and Initial Setup at scn.sap.com/community/it-management/alm/blog/2015/07/10/maintenance-planner-prerequisites-and-initial-setup.

- **Installation and Update Tools**
  
  Installation or upgrade tools (depending on your scenario).

  For the new installation of an SAP system including an 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 help.sap.com/sitoolset.

### 3.3 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.
3.4 Software Component Matrix

To get an overview of the components that are used by each SAP SCM business process, see the corresponding Software Component Matrix chapters in the Master Guides and Upgrade Master Guides for SAP APO, SAP EWM, SAP SNC, and the other parts of SCM (see chapter Related Information).

3.5 System Landscape

Possible System Landscape

The following figure provides an overview of a possible system landscape for the business processes of SAP SCM.

![System Landscape Diagram](image)

Figure 3: System Landscape

For more information about SCM system landscapes, see chapter System Landscape in the corresponding Master Guides mentioned in chapter Related Information.

Note

All processes described in this Master Guide can run with SAP NetWeaver 7.31 product instance PI or higher. For more information about higher PI releases, see SAP Note 1515223.

Recommendation

We do not recommend installing all components on one host. Instead, you can distribute the components among several hosts, as displayed in the figure above. The figure represents one of several ways of distributing
the components. The distribution depends on many factors, such as sizing, security, available hardware, and so on. In practice, any distribution of components among hosts is possible.

> Recommendation

Before you start the installation, ensure that you know which components are required for the business process you plan to use. For more information about the required components, see the software component matrix for each business process in the corresponding Master Guides.

**SAP Identity Management**


### 3.6 Overall Implementation Sequence

> Note

The installation is executed by SAPinst. For more information, see the section Implementation of the Installation [page 14] in this Master Guide.

The following table shows the installation sequence for the different servers and point you to detailed information about each one:

**Process**

Table 15

<table>
<thead>
<tr>
<th>Step</th>
<th>Action</th>
<th>Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Installation of SAP Enhancement Package 8 for SAP ERP 6.0&lt;br&gt;For more information, see the SAP ERP Installation Guide on SAP Service Marketplace at service.sap.com/instguides &gt; SAP Business Suite Applications &gt; SAP ERP &gt; SAP ERP 6.0 &gt; SAP Enhancement Packages for SAP ERP 6.0 &gt; SAP enhancement package 8 for SAP ERP 6.0.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Installation of SAP SCM Server 7.0 including SAP enhancement package 4&lt;br&gt;For more information, see the SAP SCM Installation Guide on SAP Service Marketplace at service.sap.com/instguides &gt; SAP Business Suite Applications &gt; SAP SCM &gt; SAP SCM Server. Using SAP enhancement package 4 for SAP SCM 7.0 Server.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>SAP liveCache 10.0&lt;br&gt;For more information, see the SAP liveCache Installation Guides on SAP Service Marketplace at service.sap.com/instguides &gt; SAP Business Suite Applications &gt; SAP SCM &gt; SAP SCM</td>
<td></td>
</tr>
</tbody>
</table>
### Step 4
**Action**
Installation of SAP SCM Optimizer 12.0

**Documentation**
For more information, see the SAP SCM Optimizer Installation Guide on SAP Service Marketplace at [service.sap.com/instguides](service.sap.com/instguides) > SAP Business Suite Applications > SAP SCM > SAP SCM Server > Using SAP enhancement package 4 for SAP SCM 7.0 > Installation Guides.

### Step 5
**Action**
Installation of SAP NetWeaver 7.31 product instance PI

**Documentation**
For more information, see [service.sap.com/instnw73](service.sap.com/instnw73).

### Step 6
**Action**
Installation of XI Content for SAP SCM 7.0 including SAP enhancement package 4

**Documentation**
You can download the XI content for SAP SCM from SAP Service Marketplace at [support.sap.com/swdc](support.sap.com/swdc) > SAP Software Download Center > Support Packages and Patches > Browse Our Download Catalog > SAP Application Components > SAP SCM > SAP SCM ENHANCE PACKAGE > EHP4 FOR SAP SCM 7.0 > Comprised Software Component Versions.

### Step 7
**Action**
Installation of SAP NetWeaver 7.5 product instance BI

**Documentation**
For more information, see [service.sap.com/instnw75](service.sap.com/instnw75).

### Step 8
**Action**
BI Content 7.57

**Documentation**
You can download the BI content for SAP SCM from SAP Service Marketplace at [support.sap.com/swdc](support.sap.com/swdc) > SAP Software Download Center > Support Packages and Patches > Browse Our Download Catalog > SAP Application Components > SAP SCM > SAP SCM ENHANCE PACKAGE > EHP4 FOR SAP SCM 7.0 > Comprised Software Component Versions > SAP NW 7.5 BI CONT ADDON 7.57.

#### Note
The business process that you want to use determine the servers (software components) that you must install. For more information, see [Software Component Matrix](page 34).

### 3.7 Integration of SAP BusinessObjects

The integration of SAP BusinessObjects SAP 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 Business Warehouse.

Embedded Analytics contains the following integrations:

- SAP 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)
- SAP 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 Enterprise Portal, or SAP CRM.

**Technical Requirements**

- **SAP Crystal Reports for Displaying Simple Lists**
  
  You require SAP Crystal Reports viewer for Business Suite Applications 1.0 or higher. Note the corresponding license terms.

- **SAP Crystal Reports with Queries**
  
  To display the SAP 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 SAP Crystal Reports, you require SAP 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>
<thead>
<tr>
<th>Topic</th>
<th>Information Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Information</td>
<td>- SAP Library for SAP ERP on SAP Help Portal at help.sap.com/erp &gt; choose release SAP ERP 6.0 EHP4 or later &gt; Application Help &gt; Processes and Tools for Enterprise Applications &gt; Embedded Analytics</td>
</tr>
<tr>
<td>Installation Information</td>
<td>SAP Help Portal at help.sap.com &gt; Analytics - All Products</td>
</tr>
<tr>
<td>Topic</td>
<td>Information Source</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Configuration Information</td>
<td>SAP Solution Manager under [Solutions/Applications &gt; Basic Configuration &gt; Configuration Structures &gt; Embedded Analytics]</td>
</tr>
</tbody>
</table>
| Installation Instructions   | • SAP Note 1353044                                                             
|                             | • SAP Note 1345320                                                             |
To get an overview of the SAP SCM business processes, see the Business Processes of <software unit> section in the Master Guides for SAP APO, SAP Event Management, SAP EWM, and SAP SNC. The locations of these guides are listed in the Related Information section of this Guide.
5 Solution-Wide Topics

SAP provides the SAP Solution Manager as the highly recommended platform to efficiently support the implementation of your solution. Using SAP Solution Manager will significantly accelerate the implementation process and help you to achieve your business goals. At the same time, SAP will be able to deliver Support Services based on the business scenarios designed and documented in SAP Solution Manager. SAP Best Practice content for your solution may further accelerate the implementation process. For information about availability of content specifically tailored to your solution, see SAP Service Marketplace under service.sap.com/public/bestpractices.

5.1 SAP Solution Manager

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

Caution

In the installation or upgrade process, an SAP Solution Manager system is required to generate the SAP Solution Manager Key. Without the SAP Solution Manager Key, you cannot continue the installation process. The generation of the required key is implemented into the SAP Solution Manager as of Release 3.2 SP8. For details, see SAP Service Marketplace at support.sap.com/notes, SAP Note 811923.

5.2 Extended Implementation Content in SAP Solution Manager

In the business process repository of SAP Solution Manager, you can find high-quality business processes under Solutions/Applications Extended Implementation Content for Lines of Business. These business processes are highly demanded by consultants and customers and provide optimized configuration information for various lines of business (for example, Finance, Sales, Manufacturing, and Supply Chain).

Extended implementation content for lines of business is characterized by carefully drafted configuration information, including the following:

- Configuration information is assigned to all business processes. This process-specific configuration information always contains a clear reference to additional basic configuration settings that are available for the required components of a process. Therefore, when you include a business process in a self-defined scenario, you can easily identify all relevant configuration settings that are relevant for your project.
• Configuration information that is specific for an optional process step is directly assigned to that process step. Therefore, when you remove an optional process step from your project because you do not need it, the corresponding configuration activities are also automatically excluded from your implementation project.

For your implementation project, this means:
• With the extended implementation content, the implementation of a business process is easier than before.
• You can adjust SAP business processes to your own enterprise-specific requirements.
• You can be sure to get all required configuration information if you include an SAP business process in a self-defined business scenario.

5.3 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.

5.3.1 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.

  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.
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.

Note

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

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.

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.

5.3.2 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
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 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.

### 5.3.3 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](http://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
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>
<thead>
<tr>
<th>Tool</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solution Manager System Landscape (transaction SMSY)</td>
<td>To model and set up your system landscape</td>
</tr>
<tr>
<td>Maintenance Planner</td>
<td>To install support packages and SAP enhancement packages</td>
</tr>
<tr>
<td>Business Process Repository</td>
<td>To access configuration documentation, links to Customizing activities and master data transactions, specifically tailored for individual business processes, business scenarios, or implementable steps</td>
</tr>
<tr>
<td>Business Process Change Analyzer (available with SAP enhancement package 1 for SAP Solution Manager 7.0)</td>
<td>To analyze the effects of transports and support packages as well as activation logs for business functions</td>
</tr>
</tbody>
</table>

**Note**

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

For more information, see SAP Support Portal at support.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/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.1.1 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.1.2 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.

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>
<thead>
<tr>
<th>BPR Object</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business scenario</td>
<td>Under Solutions/Applications</td>
</tr>
<tr>
<td>Business process</td>
<td>Under Organizational Areas</td>
</tr>
<tr>
<td>Implementable step</td>
<td>Under Solutions/Applications</td>
</tr>
</tbody>
</table>
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.

**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.

### A.2 Media List

You can download installation media from the SAP Software Download Center (SWDC) on the SAP Service Marketplace at [support.sap.com/swdc](support.sap.com/swdc).

**Note**  
Since the material numbers of DVDs, CDs, and archives may change when they are updated, we recommend that you visit the SWDC to make sure that you always use the most recent version of the indicated data carriers.