



Master Guide

SAP Enhancement Package 6 for SAP ERP 6.0 Powered by SAP NetWeaver

Using SAP Enhancement Package 6 for SAP ERP 6.0 and Enhancement Package 3 for SAP NetWeaver 7.0

Target Audience

- Technical Consultants
- System Administrators
- Project Leads

CUSTOMER

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Document History



CAUTION

Before you start the implementation, make sure you have the latest version of this document. You can find the latest version at the following location: <http://service.sap.com/instguides>. We strongly recommend that you use the documents there. The guides are updated regularly.

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

Version	Date	Description
1.0	2011-10-24	
1.1	2011-12-22	In chapter 2.5 information on Software Logistics Toolset 1.0 corrected and figure added
1.2	2012-04-18	<ul style="list-style-type: none"> ■ Chapter “SAP ERP 6.0 Architecture: Overview” renamed to “Software Component Overview of Enhancement Package 6 for SAP ERP 6.0” and reworked. ■ SAP Note 1645464 added to chapter “Related SAP Notes”.
1.3	2012-05-16	Release combinations of SAP ERP and SAP NetWeaver Application Server JAVA adapted.
1.4	2013-11-28	Note added in chapter “Enhancement Packages and Software Components: Architecture Overview” pointing out that you must check the relevant SAP NetWeaver Upgrade Master Guide if you are planning a NetWeaver upgrade.
1.5	2013-12-20	Navigation paths to Software Update Manager (SUM) (upgrade and update tool) and Software Provisioning Manager (SWPM) (installation tool) updated

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1 Getting Started

1.1 Purpose of This Document

This master guide provides a central starting point for the technical implementation of enhancement packages for SAP ERP. It outlines the basic idea of the enhancement package concept and gives an overview of the implementation procedure.



NOTE

This document focuses on enhancement package 6.

Ensure that you use **at the minimum SP01 of EHP6** for productive usage. Any mentioning of enhancement package 6 in this document refers to **EHP6, SP01**.

To ensure a smooth technical implementation, this guide helps you to find further information and links to related documents that outline business processes, scenarios, and software units. Getting a clear picture of the implementation procedure helps you to plan and prepare all required steps of your project. Keep in mind that additional software dependencies, which are not explicitly mentioned in this document, might exist. These dependencies are visible in the *Upgrade Dependency Analyzer* tool, available at <http://service.sap.com/uda>.

In the different phases of your enhancement package implementation project, different documents and sources of information are relevant.

Structure of the Guide

This Master Guide consists of the following main sections:

- *Chapter 2 — SAP Enhancement Packages for SAP ERP* [page 7] gives a general overview and provides information on the delivery architecture and the structure of the SAP ERP software. The key facts summarize important rules and guidelines. This chapter helps you to understand the enhancement package concept and the software component design. It is essential to become familiar with both so that you can set up in-depth planning for an implementation project.
- *Chapter 3 — Main Implementation Processes and Related Documentation* [page 29] gives an overview of the different implementation processes and how to plan for them. The chapter describes the required steps for each of the different processes and provides links to the related documentation.
- The *Appendix* [external document] gives an overview of generic tools for your implementation project as well as information on the system landscape. The appendix also contains links to additional resources and information.

Feedback and Comments

SAP is interested in improving its documentation and welcomes your comments and suggestions. To share your comments, send an e-mails to EHP-tech@sap.com. Please include the document title and material number, which can be found on the cover page.

2 SAP Enhancement Packages for SAP ERP6.0

2.1 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 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



NOTE

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

You require at least one of the following versions of SAP Solution Manager.

- SAP Solution Manager 7.0 EHP1, SPS23 or higher
- SAP Solution Manager 7.1, SPS01 or higher

SAP Solution Manager 7.0 EHP1, SPS23 supports all update and maintenance processes (for example, transaction SMSY or Maintenance Optimizer) There is no need to upgrade to SAP Solution Manager 7.1.

For more information, see SAP Service Marketplace at ► <http://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 ► <http://www.sdn.sap.com/irj/sdn> → Application Lifecycle Management → Technical Enablement → Update and Upgrade → Related Areas on Upgrade and Update Management → Landscape Verification ◀ (<http://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 ii be necessary.

- 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 (SAPinst).

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).

2.2 Component Overview of Enhancement Package 6 for SAP ERP 6.0

Understanding the architecture of Enhancement Package 6 for SAP ERP 6.0 software is key to understanding the enhancement package concept.

Enhancement Package 6 for SAP ERP 6.0 is based on Enhancement Package 3 for SAP NetWeaver 7.0 and consists of different product instances and software components (see *Enhancement Packages and Software Components: Architecture Overview* [page 12]). Each of them represents a particular functional component of the software.

The following tables give an overview of the software components included in Enhancement Package 6 for SAP ERP 6.0. The list of components provided here only represents an excerpt and is **not** complete.

ABAP Technology for SAP ERP EHP6

The following table contains the ABAP technology components required to run Enhancement Package 6 for SAP ERP 6.0, which are installed as part of Enhancement package 6:

Software Component (technical name)	Release
MDG_FND	731
SAP_BS_FND	731
SAP_AP	700
WEBCUIF	731

The following table contains the components of SAP EHP3 FOR SAP NETWEAVER 7.0 – Application Server ABAP required to run Enhancement Package 6 for SAP ERP 6.0:

Software Component (technical name)	Release
PI_BASIS	731
SAP_ABA	731
SAP_BASIS	731
SAP_BW	731
SAP KERNEL	7.20 EXT 64 BIT/64 BIT UC
ST-PI	2008_1_700/2008_1_710

Single software components can remain on release 6.00. The following table gives **examples** of component versions provided by Enhancement Package 6 for SAP ERP 6.0:

Software Component (technical name)	Release
EA-APPL	606
SAP_APPL	606
EA-HR	606
SAP_HR	604

	 CAUTION SAP HR remains on release 6.04 when you install Enhancement Package 6 for SAP ERP 6.0. EA-HR is updated to release 6.06. Within Enhancement Package 6 the SAPHHR software component runs with release 6.04 (see SAP Note 1645464).
EA-FINSERV	606
EA-RETAIL	606
IS-OIL	606
IS-PRA	606
FINBASIS	736
IS-CWM	606
SEM-BW	736
FI-CA	606
IS-UT	606
EA-IPPE	406

Java Technology for SAP ERP EHP6

The following table gives **examples** of Java component versions provided by Enhancement Package 6 for SAP ERP 6.0 which require an Application Server Java:

Java Components		
Java Web Applications	Portal Content	XI Content
SAP FSCM – Biller Direct	BP* (Business Packages for ERP)	XI CONTENT* (XI Content for ERP)
SAP Learning-Sol Frontend CP		
SAP XSS (Self Services)		
SAP XECO		

Java components include the general Java Web applications such as SAP XSS on the one hand, and content packages on the other hand. The content packages are available for the Java product instances EP Core and Enterprise Portal. The content is installed in addition to the product instances.

Software Components of SAP ERP 6.0

SAP ERP 6.0 consists of the following software components. The software components of SAP ERP 6.0 cannot be installed individually, they are always installed as one instance. For more information, see SAP Service Marketplace at <http://service.sap.com/sp-stacks>.

SAP ERP 6.0 comprises:

- SAP ECC Server
- SAP XSS (Self Service)
- SAP XECO
- XI Content

With SAP ERP you also receive a series of industry business solutions that were formerly delivered as Industry Solution add-ons. With release 6.00 these add-ons were integrated into the product instance SAP ECC Server. The following industry business solutions are available with SAP ECC 6.0:

- SAP Catch Weight Management
- Defense Forces & Public Security
- SAP Discrete Industries and Mill Products
- SAP Healthcare/SAP Ambulatory Care Management/i.s.h.med
- SAP for Insurance
- SAP Media
- SAP for Mining
- SAP Oil & Gas
- SAP for Professional Services
- SAP Public Sector Collection and Disbursement
- SAP Retail
- Student Lifecycle Management
- SAP Telecommunications
- SAP Utilities
- Contract Accounts Receivable and Payable

You can use many of the industry business solutions by activating the corresponding business functions and business function sets. You use them to configure your ECC system to the requirements of the industry business solution.

For more information on the different types of industry business solutions, see *Enhancement Packages and Software Components: Architecture Overview* [page 12].

To find out which industry business solutions you can use, refer to the Product Availability Matrix at <http://service.sap.com/pam>.

More Information

For more information about the SAP ERP 6.0 technology or about the architecture of the Switch Framework, see the “Master Guide for SAP ERP 6.0” on SAP Service Marketplace at <http://service.sap.com/erp-inst> → SAP ERP 6.0 → Planning ↩.

Important SAP Notes you need to consider when installing an enhancement package are summarized in SAP Note [1496212](#) (*SAP ERP 6.0 Enh. Pk. 6 – Release Information Note*).

For more information about the limitations for SAP enhancement packages for SAP ERP 6.0, see SAP Note [998833](#) (*Release Restrictions SAP ERP 6.0 – Enhancement Packages*).

2.3 Enhancement Packages and Software Components: Architecture Overview

Prior to the availability of the enhancement package delivery architecture, it was necessary to upgrade the complete SAP system instance to a new release, for example, from SAP R/3 4.6C to SAP ERP 6.0. With enhancement packages, it is now possible to update individual software components of your SAP ERP system or to install new software components, always based on your choice of technical usage.

**NOTE**

Update only software components that are related to the functions you want to use.

**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 [//http://help.sap.com/netweaver](http://help.sap.com/netweaver).

SAP ERP 6.0 ECC Server consists of two different types of software components:

- Application-related software components, such as SAP_APPL
- SAP NetWeaver-related software components, such as SAP_BASIS or SAP_ABA

In this example, the application components in figure 1 have version 600 (for example, SAP-APPL 600 and EA-APPL 600) and the Basis (NetWeaver) components have version 700, which is the given situation with SAP ERP 6.0 without any enhancement packages. After an update to enhancement package 6, which includes the technical usage *Central Applications*, selected software components of the application area have been updated to a higher version, such as SAP_APPL 606, and NetWeaver 703.

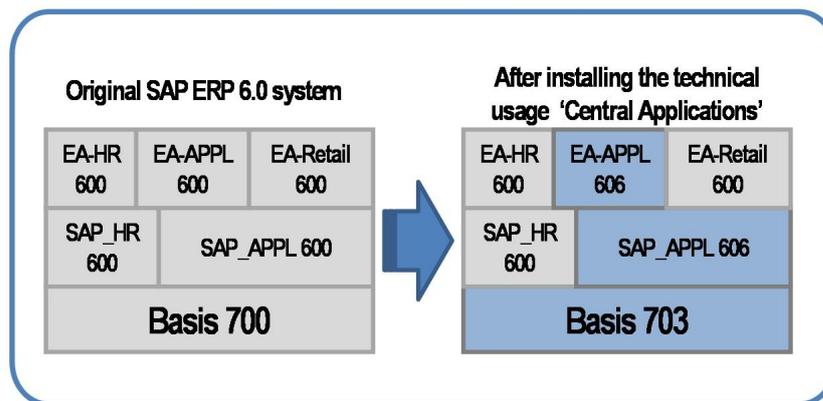


Figure 1: Application Components after Installation of Technical Usage *Central Applications*

A verification of your own component version can be evaluated by logging into your SAP ERP ABAP system and choosing **System → Status** in the menu. The *Component Information* pushbutton displays the details. In addition, each software component has its own support packages. For more information, see SAP Service Marketplace at <http://service.sap.com/sp-stacks>.

The business functions, and thus the business-related features that you plan to use, dictates which software components you must install in your existing system instances. The following figure helps you to understand the relationship between business functions, technical usages, software components, and product instances:

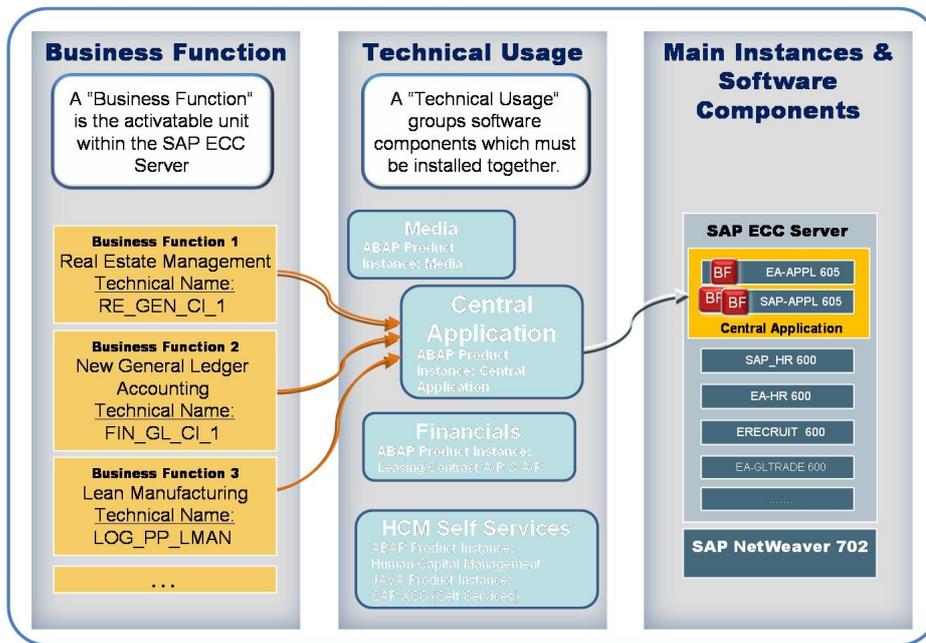


Figure 2: Example for Mapping Process: Relationship Between Technical Usages, Business Functions, and Software Components

■ **Business Function**

The business functions in an enhancement package define the functional scope, which you can activate and use in the supported business process. A business function has two meanings:

- It is the business entity that provides information about process enhancements and information about what you have to install to use those process enhancements. Required business functions are summarized in a technical usage.
- It is the technical entity in the ABAP instance that can be switched on using the switch framework transaction (SFW5).



NOTE

Business Functions are available for ABAP-based systems only, not for JAVA based systems. There are no business functions for JAVA systems or instances.



EXAMPLE

The business function 2 *New General Ledger Accounting*, with the technical name FIN_GL_CI_1, comprises the enhancements within the new general ledger accounting functions. This business function is part of the technical usage *Central Applications*.



NOTE

For SAP ERP, transaction SFW5 covers the following three types of business functions:

- ◆ **Enterprise Extension**

These business functions are available for full releases of SAP ECC (up to SAP ERP 6.0). You use them to activate a number of industry-independent and industry-specific applications and business processes for each business function.

- ◆ **Enterprise Business Functions**

You use these business functions to activate the developments for the enhancement packages. SAP ERP contains both industry-independent and industry-specific enterprise business functions.

- ◆ **Industry business functions**

These business functions contain functions that belong to the industry enhancements introduced with SAP ERP 6.0.

You cannot activate industry business functions of an industry business function set in parallel to other industry business functions in the same ABAP-based system or instance. Therefore, some business function sets are available where the requirements of several industries are linked with one another, for example, the *SAP Oil and Gas* with the *Utilities* business function set.

Each business function has its specific documentation and also test cases that allow you to test the new functionality.

- **Business Function Sets**

Business functions are grouped in business function sets in your ABAP-based ERP system. There are two types of business functions sets:

- **General Business Function Set**

A general Business Function Set contains the enterprise business functions and the Enterprise Extensions. These contain functions for the standard applications of Accounting, Logistics, Human Capital Management, and some additional industry-specific applications.

- **Industry Business Function Set**

You use industry business function sets to change your clients of an ERP system over to the applications and solutions tailored for an industry. This business function set covers all industry business functions that can be used for an industry solution to be implemented exclusively on one system or one instance.



RECOMMENDATION

A business function set is activated when you have activated at least one of the related business functions. We therefore recommend that you activate the business function set when you start configuring your system, since the required industry-specific view of your Implementation Guide is only created once you have activated the related business function.

- **Technical Usage**

A technical usage refers to a set of product instances. All product instances of a technical usage have to be installed to enable a business function. Each business function is dedicated to a technical

usage. For information on the mapping of the technical usage to business functions, see SAP Note [1566412](#).

**EXAMPLE**

- The technical usage *Central Applications* refers to the product instance SAP ECC Server, which is an ABAP main instance.
- The technical usage *Human Capital Management* refers to two different product instances: the first one is *Human Capital Management*, which is an ABAP main instance, and the second one is *SAP Portal Content*, which is a JAVA main instance. A technical usage tells you which software component must be installed in your SAP ERP 6.0 system. The main instance tells you where to install it, in the ABAP or Java part of your system. The technical usage can also include content for a SAP Portal or SAP NetWeaver Exchange Infrastructure (SAP NetWeaver XI) system.

■ Main Instances and Software Components

A software component is the smallest maintainable unit within the SAP software model; thus, the basis for support packages. For installation purposes, a software component is assigned to one or several product instances. All content (BI, EP, PI content) is shipped as software components.

**EXAMPLE**

The technical usage *Central Applications* consists of two software components in the above figure: EA-APPL 606 and SAP_APPL 606. From a technical point of view, both software components must be installed to launch the new function *New General Ledger Accounting*.

The product instance (or main instance) comprises a set of software components.

**EXAMPLE**

The product instance in figure 1 is SAP ECC Server, which consists of several application-specific software components such as SAP_APPL, SAP_HR, or EA-Retail.

With enhancement packages, new or enhanced objects that are contained in special content product instances are shipped. The following types of content are available:

- **Role Content** provides a single point-of-access for SAP business applications, reports and technologies. For example, it allows a seamless integration of classic SAP GUI-based transactions and Web Dynpro-based applications. There are two different options to run role content:
 - ◆ **SAP Netweaver Business Client (NWBC)**
The NWBC enables you to directly access PFCG roles on the SAP NetWeaver Application Server ABAP. Note that the NWBC is automatically installed with your ABAP installation.
 - ◆ **SAP Netweaver Enterprise Portal**
The Enterprise Portal (EP) enables you to run portal roles, which are captured in business packages. The EP allows an easy integration of JAVA applications and supports complex multi-system scenarios.

- **Business Intelligence content (BI content – previously known as SAP NetWeaver Business Warehouse content or SAP NetWeaver BW content)**

In your BW system, new or changed objects as part of the enhancement packages are stored in own InfoAreas.

- **SAP NetWeaver Exchange Infrastructure content (XI content) and enterprise services**
As part of the enhancement packages you receive additional enterprise services. The implementations of these enterprise services are in the software component versions of your ABAP-based system. In the XI system, these enterprise services are grouped in their own software components and namespaces for the enhancement packages. For more information about these enterprise services, see the documentation of the business function and the related release notes.

Industry Business Solutions

As mentioned in the *previous chapter* [page 10], industry business solutions have been integrated into the SAP ECC Server. There are different ways to make the functionality for an industry business solution available. SAP ERP therefore distinguishes between the following types of industry business solutions:

- **Industry business solutions delivered as central component**

These industry business solutions are available immediately after the installation of the product instance SAP ECC; you do not have to activate a business function.

- **Industry business solutions available as business function set (industry enhancement)**

You use the business function set to activate the industry-specific functions that change your ECC system over to the requirements of a specific industry. These business function sets are also available with SAP ECC; you do not have to install an add-on.

- **Industry-specific business processes or industry business solutions delivered as Enterprise Extension or Enterprise business function**

From a technical point of view Enterprise Extensions are delivered and installed as an add-on. You have to install these industry business solutions separately.

You activate Enterprise Extensions using the switch framework (Transaction SFW5). Once activated they cannot be deactivated. Enterprise Extensions are the precursors of business functions.

More Information

- Further details about the relationship between business functions, technical usage, product instances, and software components are visible in the mapping of business functions to technical usages. See the PDF attachment in SAP Note [1566412](#) for further information.
- For more information about the different industries, refer to the individual Master Guides for each industry. You find them at <http://service.sap.com/instguides>. Note that the Master Guides for the industries cover industry scenarios running in the entire SAP Business Suite, not just SAP ERP.

2.4 Key Facts About Enhancement Packages

- For more information on the individual business functions, see ► <http://help.sap.com/erp> → *SAP ERP Central Component* → *<Release>* → *Application Help* → *<Language>* → *Business Functions (SAP Enhancement Package 6 for SAP ERP 6.0)* → *Business Functions in SAP ERP* ◀.
- For more information about roles, refer to SAP Note [1621361](#).

2.4 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.

2.5 Technical Changes in SAP Enhancement Package 6 for SAP ERP 6.0

This section gives an overview of the technical changes in the latest enhancement package version:

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

You require at least one of the following versions of SAP Solution Manager:

- SAP Solution Manager 7.0 EHP1, SPS23 or higher
- SAP Solution Manager 7.1, SPS01 or higher

SAP Solution Manager 7.0 EHP1, SPS23 supports all update and maintenance processes (for example, transaction SMSY or Maintenance Optimizer). There is no need to upgrade to SAP Solution Manager 7.1.

For more information, see SAP Support Portal at <http://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 before they cause problems, for example during a system update. Examples of errors are missing connections or wrong assignments 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 <http://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 and to correct data should it be necessary.

- **Business Process Change Analyzer (BPCA)** available as of Solution Manager 7.0 EHP1
The BPCA allows you to identify critical business processes affected by planned change events. It helps you decide, which support package, enhancement package or custom-triggered changes are suitable for your SAP system.



NOTE

You can use the BPCA for enhancement packages only, if you work with defined business processes and have created a technical bill of material for each relevant process step.

- **Direct installation of add-ons**
During the Design Phase and when using Maintenance Optimizer (transaction DSWP) you can install add-ons directly. You can select or deselect individual add-ons.



NOTE

You can skip the selection of add-ons during the Design Phase and select add-ons at a later stage in a separate step.

- **Introduction of the Software Logistics Toolset 1.0**
With the Software Logistics Toolset 1.0 SAP delivers improvements to the software logistics tool for your current system landscape on a continuous basis. One component of the Software Logistics Toolset 1.0 is the Software Update Manager (SUM), which evolved from upgrade and enhancement

package tools for SAP Netweaver-based system maintenance. The Software Update Manager (SUM) encapsulates functions of SAP ehpi, SAP Jup and JSPM.

For more information, see central release note for SL Toolset 1.0 – SAP Note [1563579](#) and <https://service.sap.com/sltoolset>.

- For the release upgrade SAP produced a **new ECC Server export** comprising AS ABAP 7.31, ECC Server 6.0, and the technical usage *Central Applications*. Using this export, you can directly create a real EHP6 system by installation or upgrade without including EHP6 parts. Beneath AS ABAP 7.31 it comprises the EHP6 components SAP_APPL 6.06 and EA-APPL 606, as well as SAP_BS_FND 703 and WEBCUIF 731.
- **Human Capital Management** requires SAP_APPL version 606
If you are using Human Capital Management, that is, if, for example, you have installed the instance *Human Capital Management*, and you update to EHP6, the software component SAP_APPL is automatically updated to version 606 as well, when you install EHP6 for SAP ERP 6.0. To maintain consistency, software components EA-HR, SAP_HR, and SAP_APPL all have to be updated to the same version. This might increase the runtime of the EHP installation. For more information, see SAP Note [1631422](#).

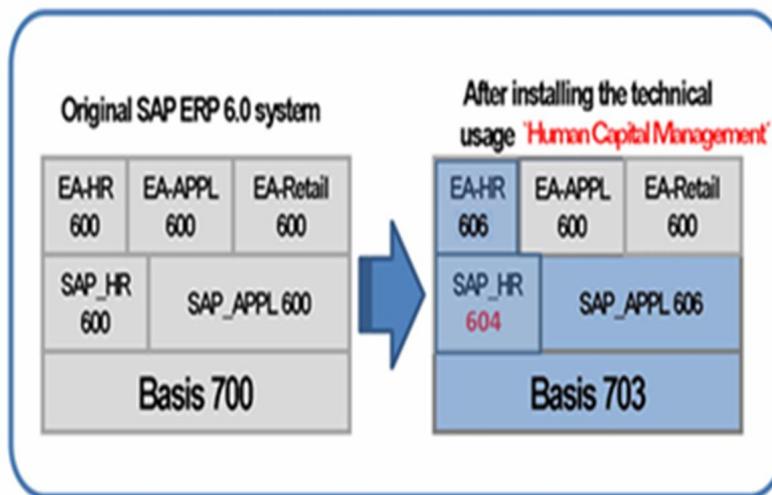


Figure 3: Update of SAP_APPL When Updating Human Capital Management to EHP6

More Information

- For important SAP Notes you need to consider when installing an enhancement package, see SAP Note [1496212](#) (*SAP ERP Enhancement Package 6 - Release Information Note*).
For more information about the limitations of SAP enhancement packages for SAP ERP 6.0, see SAP Note [998833](#) (*Release Restrictions SAP ERP 6.0 – Enhancement Packages*).
- For further details on the **landscape verification for Solution Manager**, refer to the Component Installation Guide for ERP at <http://service.sap.com/erp-inst> → *SAP Business Suite*

Applications → *SAP ERP* → *SAP enhancement packages for SAP ERP 6.0* → *SAP Enhancement Package 6 for SAP ERP 6.0* ←.

2.6 Landscape Options

For more information about the setup of your system landscape, see the *Planning Guide — SAP Business Suite Landscape Implementation* at ► <http://service.sap.com/instguides> → *SAP Business Suite Applications* → *SAP ERP* → *SAP enhancement packages for SAP ERP 6.0* → *SAP Enhancement Package 6 for SAP ERP 6.0* ←.

In this planning guide you find information on different installation options for SAP NetWeaver, as for example, hub system or side car system.

For information on the interoperability of different versions within the SAP Business Suite, see SAP Note [1388258](#).

For general information on the system landscape, see *Tools and Resources for Planning Your System Landscape* [page 47].

Business Suite Enablement for NW7.3 (Java hubs)

If you are using SAP Business Suite applications that are based on an Application Server Java and on hub systems such as Enterprise Portal Hub, BW Hub, or PI Hub you can:

- Install these applications on SAP NetWeaver 7.3
- Upgrade or update from your current NetWeaver release to SAP NetWeaver 7.3

For more information, see SAP Note [1468349](#).

With SAP NetWeaver 7.3 SAP provides new technology scenarios for Java hub components within the Business Suite. By upgrading or updating to Business Suite enablement for NW7.3 (Java hubs), you upgrade SAP NetWeaver JAVA technology, while the Business Suite Java hub components themselves work as before (functional equal).



EXAMPLE

An upgrade or update to SAP NetWeaver 7.3 makes the latest portal technology available.

Business Suite enablement for NW7.3 has been implemented in accordance with the planned release strategy and reduces your total cost of ownership by providing an integrated and modern Java technology stack.

The following table shows which releases of SAP ERP you can run with which release of the SAP NetWeaver Application Server JAVA:

	SAP ERP 6.0	EHP2 for SAP ERP 6.0	EHP3 for SAP ERP 6.0	EHP4 for SAP ERP 6.0	EHP5 for SAP ERP 6.0	EHP6 for SAP ERP 6.0
SAP NW 7.00	X	X	X	X	X	X
SAP NW 7.01	X			X	X	X

SAP NW 7.02	X			X	X	X
SAP NW 7.03	X			X	X	X
SAP NW 7.30				X	X	X
SAP NW 7.31				X	X	X

The following table shows which releases of SAP ERP you can install with which release of the SAP Application Server ABAP when you are using sidecar or embedded systems:

	SAP ERP 6.0	EHP2 for SAP ERP 6.0	EHP3 for SAP ERP 6.0	EHP4 for SAP ERP 6.0	EHP5 for SAP ERP 6.0	EHP6 for SAP ERP 6.0
SAP NW 7.00	X	X	X			
SAP NW 7.01				X		
SAP NW 7.02					X	
SAP NW 7.03						X

2.7 System-Wide Solutions and Third-Party Software

2.7.1 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.

2.7.1.1 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, see the SAP Library at: <http://help.sap.com/nw73> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Process Integration* → *Concepts* → *Installation and Connectivity Options* → *Advanced Adapter Engine Extended* and SAP Note [1573180](#).

**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 and to view enterprise service models.

**NOTE**

In a SAP NetWeaver 7.0x landscape you will require the Integration Repository to create and enhance enterprise service definitions in a design time environment.

- **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 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.

- **SAP Solution Manager 7.0 EHP 1**

The Solution Composer, shipped with SAP Solution Manager 7.0 EHP 1 SP 23, is required to host the enterprise service online documentation.

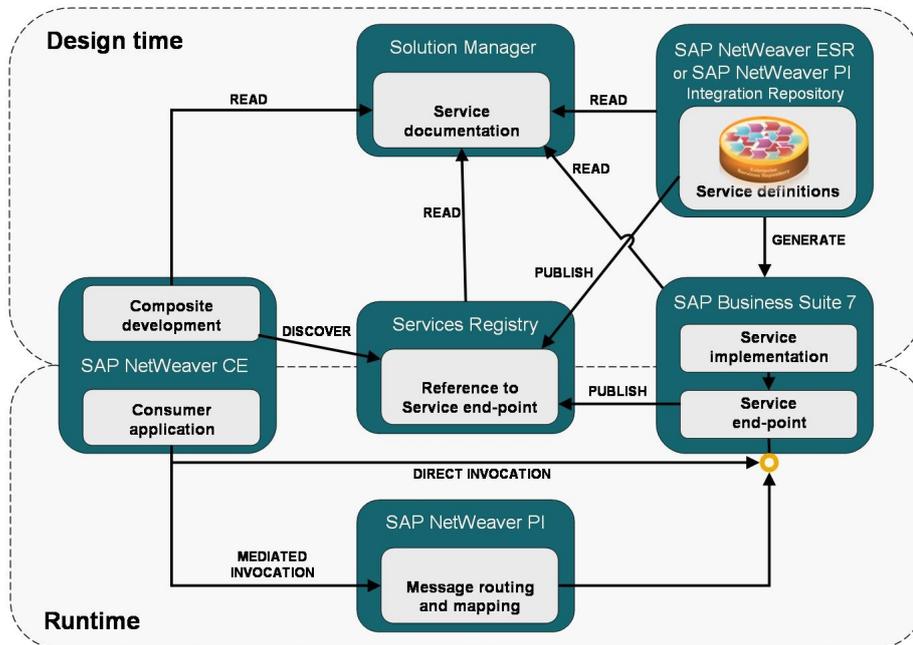


Figure 4: Overview: SAP's Applications for SOA Enablement

The following table describes the SAP applications required or recommended for different runtime and design time use cases:

	SAP Applications					
	SAP Business Suite	SAP NetWeaver PI 7.0x (Integration Repository)	SAP NetWeaver PI 7.1 or higher (ES Repository)	SAP NetWeaver CE 7.1 or higher (ES Repository)	SAP Solution Manager 7.0 EHP1 or higher (Solution Composer)	SAP NetWeaver 7.1 or higher Services Registry
Runtime Usage:						
Enterprise Service Provisioning	Required					Optional
Process integration and mediated communication		One option required				
Design Time Usage:						
Create and enhance enterprise service definitions	Required	One option required			Recommended	
View enterprise service models			One Option Required		Recommended	

Design and develop composite applications				Required	Recommended	Recommended
Enterprise service online documentation					Required	
Publications of enterprise service end-points					Optional	Required

2.7.1.2 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 [1566412](#) 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.

- **Enterprise service definitions for SAP NetWeaver PI 7.0x or ES Repository (SAP NetWeaver 7.1 or higher)** (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 7.0 or higher. Unpack the ZIP file and copy the tpz files

corresponding to your SAP NetWeaver 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* ◄)

- **Enterprise service models for ES Repository (SAP NetWeaver 7.1 or higher)** (optional)

To install the content required for the enterprise service models you must select the technical usage “ESR Content” in the enhancement package installation process. This usage type downloads the content files for SAP NetWeaver ES Repository 7.1 or higher. Unpack the ZIP file and copy the tpz files into the import directory of your Enterprise Services Repository. Use the import function to import the content files into the Enterprise Services Repository. (Choose ► *Tools* → *Import design objects* ◄)



NOTE

The enterprise service models are not available for the Integration Repository (SAP NetWeaver PI 7.0x)

- **Enterprise service online documentation for Solution Composer** (optional)

To install the content required for the enterprise service online documentation you must download the content file for the corresponding Business Suite application product version from the Service Marketplace. Then you must import the content file into your Solution Composer. Refer to SAP Note [1224284](#) for further information.

- **Services Registry** (optional)

The services registry is shipped starting with SAP NetWeaver PI 7.1 and CE 7.1. You must install 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 installation of SAP NetWeaver PI, CE and ES Repository, refer to the corresponding SAP NetWeaver Installation and Master Guides.

2.7.1.3 Related Documentation

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

- SDN Community in the SAP Network at <https://www.sdn.sap.com/irj/sdn/soa> (registration required)
- The SAP Enterprise Service Workplace at <http://ESWorkplace.sap.com>
- The Enterprise Services Wiki in the SAP Network at <https://wiki.sdn.sap.com/wiki/x/LQ0> (registration required)
- SAP Note [1224284](#): Enterprise Services, Installing and Accessing the SOA Documentation
- SAP Note [1359215](#): Technical prerequisites for using enterprise services (relevant for ERP only)

- SAP note [838402](#): Problems with non-Unicode system landscapes

2.7.2 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.

Topic	Information Source
General Information	<p>SAP Library for SAP ERP or SAP Library for SAP Customer Relationship Management on SAP Help Portal at ► http://help.sap.com/erp606 ◀ or ► http://help.sap.com/crm ◀</p> <p>In SAP Library, choose ► <i>SAP Business Suite</i> → <i>Processes and Tools for Enterprise Applications (CA-EPT)</i> → <i>Embedded Analytics</i> ◀.</p>
Installation Information	<p>SAP Service Marketplace at ► http://service.sap.com/bosap-instguides ◀ and SAP Help Portal at ► http://help.sap.com → <i>SAP BusinessObjects</i> → <i>All Products</i> ◀</p>
Configuration Information	<p>SAP Solution Manager under ► <i>Solutions/Applications</i> → <i>Basic Configuration</i> → <i>Embedded Analytics</i> ◀</p>
Installation Instructions	<p>SAP Notes 1353044 (<i>Crystal Reports Viewer for Business Suite Applications 1.0</i>) and 1345320 (<i>Crystal Reports with Queries</i>)</p>

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 several 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.

3.1 Planning for Installation, Update, and Upgrade Processes



Figure 5: Application Lifecycle Management

For more information about Application Lifecycle Management, see <http://service.sap.com/aln>.

The processes are described in the following sections:

- *Planning for Installation, Update, and Upgrade Processes* [page 30]
- *Implementation of the Installation Process* [page 34]
- *Implementation of the Update Process* [page 37]
- *Implementation of the Upgrade Process* [page 39]

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 following table 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 in this section:

- 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.

3.1 Planning for Installation, Update, and Upgrade Processes

- 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.

Steps	Step Description	Documentation
Scope and Requirements	<p>Define your business scope, such as business scenarios and business functions you want to use. You can find information about scope topics at the Enhancement Package Info Center [1]. The SAP Solution Browser Tool gives you a summary of key functional changes between two releases or SAP enhancement packages [2]. You can find detailed information about business functions on the SAP Help Portal [3].</p>	<ol style="list-style-type: none"> 1. http://service.sap.com/erp-ehp 2. http://solutionbrowser.sap.fmpmedia.com 3. http://help.sap.com/erp → SAP ERP Central Component → SAP ERP Enhancement Packages → ERP Central Component Enhancement Package 6 → Business Functions ↩
Dependencies to Other Systems in the Landscape	<p> NOTE Only relevant for upgrades!</p> <p>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.</p>	http://service.sap.com/uda
Landscape Planning	<p>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 <i>Planning Guide - SAP Business Suite Landscape Implementation</i> [1].</p>	http://service.sap.com/erp-ehp6-inst For more information, see SAP Note 1388258 .
Business Functions	<p>You map the business functions that you want to implement to the corresponding technical usages [1].</p> <p> NOTE The selective installation of enhancement packages allows you to update a subset of the software components that are part of your SAP ERP 6.0 implementation. This approach leads to a risk reduction for your</p>	<ol style="list-style-type: none"> 1. SAP Note 1566412 2. http://help.sap.com/erp → SAP ERP Central Component → SAP ERP Enhancement Packages → ERP Central Component Enhancement Package 6 → Business Functions ↩

3.1 Planning for Installation, Update, and Upgrade Processes

Steps	Step Description	Documentation
	<p>implementation project as fewer software components are involved.</p> <p> CAUTION 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.</p> <p>The information about the technical usages is required for your SAP Solution Manager set-up (step 1 of the update and upgrade processes). Identify the business functions that you wish to activate based on your business needs. [2]</p>	
<p>Hardware & Software Prerequisites</p>	<p>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. The support package equivalence levels are described in SAP Notes [1].</p>	<ol style="list-style-type: none"> 1. SP Stack notes: <ul style="list-style-type: none"> ■ SAP Note 1064635 (SAP ERP) ■ SAP Note 789220 (SAP NetWeaver) 2. http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager</i> <Version> ↩ 3. http://service.sap.com/sp-stacks

3.1 Planning for Installation, Update, and Upgrade Processes

Steps	Step Description	Documentation
	<p>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].</p>	
	<p>Check which platforms are supported for your target release (OS/DB dependencies) with the Product Availability Matrix.</p>	<p>http://service.sap.com/pam</p>
	<p>Check which hardware sizing is required for your target release.</p>	<p>http://service.sap.com/sizing</p>
<p>Solution Manager Prerequisites</p>	<p>Make sure that your SAP Solution Manager system has one of the following support package (SP) levels with the associated content release:</p> <ul style="list-style-type: none"> ■ SAP Solution Manager 7.01 SP Stack 23 ■ SAP Solution Manager 7.1 SP Stack 01 ■ Content: ST-ICO 150_700 SP 31 <p> NOTE The use of the Solution Manager Content is recommended, not mandatory.</p> <p>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:</p> <ul style="list-style-type: none"> ■ Upgrade from source releases SAP Solution Manager 3.1 and 3.2. [1] ■ Update from source releases SAP Solution Manager 7.0. [2] <p>After an upgrade or update to SAP Solution Manager 7.0 EHP1, you need to do follow-up actions described in the section <i>Software Change Management of the Solution Operations Guide</i>. [3]</p>	<p>All SAP Solution Manager guides are available at: ▶ http://service.sap.com/instguides → <i>Installation & Upgrade Guides</i> → <i>SAP Components</i> → <i>SAP Solution Manager</i> → <i>Release 7.0 EHP1 (or Release 7.1)</i> ◀</p> <ol style="list-style-type: none"> 1. <i>Upgrade Guide – SAP Solution Manager 7.0 incl. Enhancement Package 1</i> 2. <i>Update Guide SAP Enhancement Package 1 for SAP Solution Manager 7.0</i> 3. <i>Solution Operations Guide – SAP Solution Manager 7.0 EHP1.</i>

3.2 Implementation of the Installation Process

Steps	Step Description	Documentation
Add-on Compatibility	If you want to use add-ons, check their compatibility with your target release.	SAP Note 1598141
Testing	<p>You perform regression and acceptance tests.</p> <p>You find information about test cases on the SAP Service Marketplace [1].</p> <p>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].</p> <p> NOTE Switch BC Sets are also delivered with business functions. They are automatically unpacked when you activate the business function.</p>	<ol style="list-style-type: none"> http://service.sap.com/erp-ehp Choose the functional area you require and navigate to the business function table. The table contains links to test catalogs. To use the Impact Analyzer call transaction SFW5 and right-click a business function. To access test cases, call transaction SFW 5 and view the test cases in column <i>SAP Test Catalog</i>.

3.2 Implementation of the Installation Process

The following table 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.



NOTE

How to read the table in this section:

- 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.

Sequence of Steps	Step Descriptions	Documentation
1 System Preparation	<p>Prepare your host systems, for example:</p> <ul style="list-style-type: none"> ■ Install and update your operating system. ■ Create the file systems. 	You find all guides at http://service.sap.com/erp-ehp6-inst .

3.2 Implementation of the Installation Process

Sequence of Steps	Step Descriptions	Documentation
	<ul style="list-style-type: none"> ■ Check database requirements. You can find this information in the <i>Planning</i> and <i>Preparation</i> sections of the relevant installation tool guides [1] and in the installation information of this document (the application Master Guide [2]). 	
2 Installation Media	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 <i>Preparation</i>) [1] and details are provided in the application-specific media list [2].	You find both the installation guide and the application media list at http://service.sap.com/erp-ehp6-inst .
3 Installation	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 SAP application-specific installation information of this document (the application Master Guide) [2].	You find all guides at http://service.sap.com/erp-ehp6-inst .
4 Post-Installation Steps	Check the relevant installation tool guides [1] and the SAP application-specific installation information of this document (the application Master Guide) [2] for post-installation tasks.	You find all guides at http://service.sap.com/erp-ehp6-inst .
5 Content Installation	If required, you install BW Content as an add-on as described in the relevant SAP Note.	SAP Note 1000822
6 Add-On Installation	You find information on compatible add-ons in the SAP Note.	SAP Note 1598141
7 Solution Manager Set-Up	<p>To set up your SAP Solution Manager application, perform the following steps:</p> <ol style="list-style-type: none"> 1. Maintain system data in the SAP System Landscape Directory (SLD). 2. Transfer system data from SLD to the SAP Solution Manager. 3. Check the landscape data with the Landscape Verification tool. 4. Create a maintenance transaction in SAP Solution Manager to calculate support packages and packages for technical usages. <p>These steps are described in this document (the application Master Guide) [1]. For more information, see the SAP Developer Network:</p>	<ol style="list-style-type: none"> 1. <i>Maintenance Planning Guide</i> at http://service.sap.com/mopz under the section <i>How-To's and Guides</i> 2. http://www.sdn.sap.com/irj/sdn/nw-sld 3. http://www.sdn.sap.com/irj/sdn/aln?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d

3.2 Implementation of the Installation Process

Sequence of Steps	Step Descriptions	Documentation
	<ul style="list-style-type: none"> ■ SLD information [2] ■ Landscape Verification tool [3] 	
8 Support Package Installation	<p>The support package (SP) equivalence levels are described in SAP Notes [1]. Create a maintenance transaction in SAP Solution Manager to calculate support packages and packages for technical usages. Install them as needed. For more information about SP stack strategy, see the SAP Service Marketplace [2].</p> <p> NOTE 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).</p>	<ol style="list-style-type: none"> 1. SP Stack notes: <ul style="list-style-type: none"> ■ SAP Note 1064635 (SAP ERP) ■ SAP Note 789220 (SAP NetWeaver) 2. http://service.sap.com/sp-stacks
9 Installation of Additional Technical Usages	If you want to install additional technical usages, you need to register your system in SAP Solution Manager.	For more information, see step 7 (Solution Manager Set-Up).
10 Configuration	<p>Configure new functions, for example new business functions, with the Solution Manager content [1].</p> <p> NOTE The use of the Solution Manager Content is recommended, not mandatory.</p> <p>How to use the Solution Manager Content is described in the SAP Library documentation for SAP Solution Manager [2].</p>	<ol style="list-style-type: none"> 1. See the step Solution Manager Prerequisites in the <i>planning</i> [page 30] section for the correct SAP Solution Manager content release. 2.  http://help.sap.com → SAP Solutions → SAP Solution Manager → SAP Solution Manager Release → Implementing and Upgrading SAP Solutions 
11 Testing	Perform regression and acceptance tests.	For more information, see the table entry <i>Testing</i> in the section on <i>Planning for Installation, Update and Upgrade Processes</i> [page 30] in this guide.

3.3 Implementation of the Update Process

The following table lists the steps for an installation of an enhancement package on an existing SAP system (update). 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.



NOTE

How to read the table in this section:

- 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.

Sequence of Steps	Step Descriptions	Documentation
1 Solution Manager Preparation	<p>To set up your SAP Solution Manager application, perform the following steps:</p> <ol style="list-style-type: none"> 1. Maintain system data in the SAP System Landscape Directory (SLD). 2. Transfer system data from SLD to the SAP Solution Manager. 3. Check the landscape data with the Landscape Verification tool. 4. Create a maintenance transaction in SAP Solution Manager to calculate support packages and packages for technical usages. <p>These steps are described in this document (the application Master Guide) [1]. For more information, see the SAP Developer Network:</p> <ul style="list-style-type: none"> ■ SLD information [2] ■ Landscape Verification tool [3] 	<ol style="list-style-type: none"> 1. <i>Maintenance Planning Guide</i> at http://service.sap.com/mopz under the section <i>How-To's and Guides</i> 2. http://www.sdn.sap.com/irj/sdn/nw-sld 3. http://www.sdn.sap.com/irj/sdn/alm?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d
2 System Preparation	<p>Prepare your system as described in the documentation, for example perform OS /DB-specific preparations. This is described in the relevant Software Update Manager (SUM) guide [1]. Check also the SAP application-specific update guide [2].</p>	<ul style="list-style-type: none"> ■ http://service.sap.com/erp-ehp6-inst ■ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ◀ <p> NOTE You always need to use the latest version of the SUM tool and guide.</p>

3.3 Implementation of the Update Process

Sequence of Steps	Step Descriptions	Documentation
		Only the latest guide version is available at the SAP Service Marketplace.
3 Software Calculation & Download	Create the maintenance transaction in SAP Solution Manager Maintenance Optimizer to calculate the required software packages. You can also select additional software packages (for example add-ons or additional usage types or software units). Download the software packages using the Download Manager.	<i>Maintenance Planning Guide</i> at http://service.sap.com/mopz under the section <i>How-To's and Guides</i>
4 Enhancement Package Installation	Run Software Update Manager (SUM) to update your system with the software packages calculated in step 3. This is described in the relevant SUM guide [1]. Check also the SAP application-specific update guide [2].	<ul style="list-style-type: none"> ■ http://service.sap.com/erp-ehp6-inst ■ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ◀ <p> NOTE You always need to use the latest version of the SUM tool and guide. Only the latest guide version is available at the SAP Service Marketplace.</p>
5 Follow-Up Steps	Perform technical and application-specific follow-up activities (for example, activating business functions) after the enhancement package installation is done. This is described in the relevant Software Update Manager (SUM) guide [1]. Check also the SAP application-specific update guide [2].	<ul style="list-style-type: none"> ■ http://service.sap.com/erp-ehp6-inst ■ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ◀ <p> NOTE You always need to use the latest version of the SUM tool and guide. Only the latest guide version is available at the SAP Service Marketplace.</p>
6 Content Update	Check if you need to update content related to: <ul style="list-style-type: none"> ■ SAP NetWeaver Portal [1] You use the Java Support Package Manager to update portal content. ■ SAP Business Warehouse [2] ■ SAP NetWeaver Process Integration [3] For more information, see SAP Note 1388258	<ol style="list-style-type: none"> 1. http://help.sap.com → <i>SAP Solutions</i> → <i>SAP NetWeaver</i> → <i>SAP NetWeaver Release</i> → <i>Functional View</i> → <i>SAP NetWeaver by Key Capability</i> → <i>Solution Life Cycle Management by Key Capability</i> → <i>Software Life Cycle Management</i> → <i>Software Maintenance</i> → <i>Java Support Package Manager</i> ◀ 2. SAP Note 1000822 3. SAP Note 836200 and http://help.sap.com → <i>SAP Solutions</i> → <i>SAP NetWeaver</i> → <i>SAP NetWeaver Release</i> → <i>Functional View</i> → <i>SAP NetWeaver by Key Capability</i> → <i>Process Integration by Key Capability</i> → <i>SAP NetWeaver Exchange Infrastructure</i> → <i>Implementation Considerations</i> → <i>Configuration of Usage Type Process Integration</i>

3.4 Implementation of the Upgrade Process

Sequence of Steps	Step Descriptions	Documentation
		(PI) → Wizard-Based Basic Configuration → Importing Process Integration Content ↩
7 Configuration	<p>Configure newly installed enhancement package functions, for example new business functions, with the Solution Manager content [1].</p> <p> NOTE The use of the Solution Manager Content is recommended, not mandatory.</p> <p>How to use the Solution Manager Content is described in the SAP Library documentation for SAP Solution Manager [2].</p>	<ol style="list-style-type: none"> 1. See the step Solution Manager Prerequisites in the <i>planning</i> [page 30] section for the correct SAP Solution Manager content release. 2.  http://help.sap.com → SAP Solutions → SAP Solution Manager → SAP Solution Manager Release → Implementing and Upgrading SAP Solutions ↩
8 Testing	Perform regression and acceptance tests.	For more information, see the table entry <i>Testing</i> in the section on <i>Planning for Installation, Update and Upgrade Processes</i> [page 30] in this guide.

3.4 Implementation of the Upgrade Process

The following table 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.



NOTE

How to read the table in this section:

- 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.

Sequence of Steps	Step Descriptions	Documentation
1 Solution Manager Preparation	<p>To set up your SAP Solution Manager application, perform the following steps:</p> <ol style="list-style-type: none"> 1. Maintain system data in the SAP System Landscape Directory (SLD). 	<ol style="list-style-type: none"> 1. <i>Maintenance Planning Guide</i> at http://service.sap.com/mopz under the section <i>How-To's and Guides</i> 2. http://www.sdn.sap.com/irj/sdn/nw-sld

3.4 Implementation of the Upgrade Process

Sequence of Steps	Step Descriptions	Documentation
	<p>2. Transfer system data from SLD to the SAP Solution Manager.</p> <p>3. Check the landscape data with the Landscape Verification tool.</p> <p>4. Create a maintenance transaction in SAP Solution Manager to calculate support packages and packages for technical usages.</p> <p>These steps are described in this document (the application Master Guide) [1]. For more information, see the SAP Developer Network:</p> <ul style="list-style-type: none"> ■ SLD information [2] ■ Landscape Verification tool [3] 	<p>3. http://www.sdn.sap.com/irj/sdn/aln?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d</p>
<p>2 System Preparation</p>	<p>Prepare your system as described in the documentation, for example perform OS/DB-specific preparations. This is described in the relevant Software Update Manager guide [1]. Check also the SAP application-specific upgrade guide [2].</p>	<ul style="list-style-type: none"> ■ http://service.sap.com/erp-ehp6-inst ■ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ↩ <p> NOTE You always need to use the latest version of the SUM tool and guide. Only the latest guide version is available at the SAP Service Marketplace.</p>
<p>3 Software Calculation & Download</p>	<p>Create the maintenance transaction in SAP Solution Manager Maintenance Optimizer to calculate the required software packages. You can also select additional software packages (for example add-ons or additional usage types or software units). Download the software packages using the Download Manager.</p>	<p><i>Maintenance Planning Guide</i> at http://service.sap.com/mopz under the section <i>How-To's and Guides</i></p>
<p>4 SAP System Upgrade</p>	<p>Run Software Update Manager to upgrade your system to the target release including the selected software packages. This is described in the relevant Software Update Manager guide [1]. Check also the SAP application-specific upgrade guide [2].</p>	<ul style="list-style-type: none"> ■ http://service.sap.com/erp-ehp6-inst ■ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ↩ <p> NOTE You always need to use the latest version of the SUM tool and guide. Only the latest guide version is available at the SAP Service Marketplace.</p>

3.4 Implementation of the Upgrade Process

Sequence of Steps	Step Descriptions	Documentation
5 Post-Upgrade Steps	<p>Perform technical and application-specific follow-up activities after the upgrade is finished.</p> <p>This is described in the relevant Software Update Manager guide [1]. Check also the SAP application-specific upgrade guide [2].</p>	<ul style="list-style-type: none"> ■ http://service.sap.com/erp-ehp6-inst ■ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ⚡ <p> NOTE</p> <p>You always need to use the latest version of the SUM tool and guide. Only the latest guide version is available at the SAP Service Marketplace.</p>
6 Content Upgrade	<p>Check if you need to update content related to:</p> <ul style="list-style-type: none"> ■ SAP NetWeaver Portal [1] You use the Java Support Package Manager to update portal content. ■ SAP Business Warehouse [2] ■ SAP NetWeaver Process Integration [3] <p>For more information, see SAP Note 1388258</p>	<ol style="list-style-type: none"> 1. http://help.sap.com → <i>SAP Solutions</i> → <i>SAP NetWeaver</i> → <i>SAP NetWeaver Release</i> → <i>Functional View</i> → <i>SAP NetWeaver by Key Capability</i> → <i>Solution Life Cycle Management by Key Capability</i> → <i>Software Life Cycle Management</i> → <i>Software Maintenance</i> → <i>Java Support Package Manager</i> ⚡ 2. SAP Note 1000822 3. SAP Note 836200 and http://help.sap.com → <i>SAP Solutions</i> → <i>SAP NetWeaver</i> → <i>SAP NetWeaver Release</i> → <i>Functional View</i> → <i>SAP NetWeaver by Key Capability</i> → <i>Process Integration by Key Capability</i> → <i>SAP NetWeaver Exchange Infrastructure</i> → <i>Implementation Considerations</i> → <i>Configuration of Usage Type Process Integration (PI)</i> → <i>Wizard-Based Basic Configuration</i> → <i>Importing Process Integration Content</i> ⚡
7 Configuration	<p>Configure upgraded or new functions, for example new business functions, with the Solution Manager content [1].</p> <p> NOTE</p> <p>The use of the Solution Manager Content is recommended, not mandatory.</p> <p>How to use the Solution Manager Content is described in the SAP Library documentation for SAP Solution Manager [2].</p>	<ol style="list-style-type: none"> 1. See the step Solution Manager Prerequisites in the <i>planning</i> [page 30] section for the correct SAP Solution Manager content release. 2. http://help.sap.com → <i>SAP Solutions</i> → <i>SAP Solution Manager</i> → <i>SAP Solution Manager Release</i> → <i>Implementing and Upgrading SAP Solutions</i> ⚡
8 Testing	Perform regression and acceptance tests.	For more information, see the table entry <i>Testing</i> in the section on <i>Planning for Installation</i> ,

Sequence of Steps	Step Descriptions	Documentation
		<i>Update and Upgrade Processes</i> [page 30] in this guide.

A Appendix

A.1 Media List

The Media List contains the installation media you need to have available when you start the installation. You find the Media List at ► <http://service.sap.com/erp-ehp6-inst> → *Media List* ◀.

A.2 Related SAP Notes

The SAP Notes listed in the following table contain the most recent installation information, as well as corrections to the existing installation documentation.

For each SAP Note a short content description is given, which indicates the functional area or topic the SAP Note relates to.

You can find up-to-date versions of each SAP Note on SAP Service Marketplace at <http://service.sap.com/notes> or by following the links below.

SAP Note Number	Title	Content
Related to SAP ERP		
838402	Problems with Non-Unicode System Landscapes	Non-Unicode code pages support only a small portion of the character sets existing world-wide. Any character conversion based on these code pages therefore bears the risk of silent data loss.
849887	SAP ERP 6.0: Support Package Stacks Release and Info Note	Lists all SAP ERP 6.0 Release and Information Notes (RIN) issued for SAP ERP 6.0
998833	Release Restrictions SAP ERP 6.0 - Enhancement Packages	Gives Information about the limitations for SAP Enhancement Packages for SAP ERP 6.0
1000009	ASU Toolbox 2008	When you update a SAP system, you must often perform additional, application-specific steps before and after the update, in addition to the actual technical update. The ASU Toolbox enables you to recognize the necessary steps and perform them in the system in a controlled manner.
1064635	SAP ERP Enhancement Packages: SP Stacks Release Info Note	Lists all Release Information Notes for: <ul style="list-style-type: none"> ■ SAP ERP Enhancement Package Releases ■ SAP ERP Enhancement Package Support Package (SP) Stacks ■ Corresponding, or equivalent SAP ERP 6.0 Support Package Stacks

SAP Note Number	Title	Content
1450179	Employee Self Services (ESS) Component Based on Web Dynpro ABAP	Gives details and explains the strategy of the Web Dynpro ABAP version of ESS, Employee Self-Service (WDA).
1496212	Release Info SAP Enhancement Package 6 for SAP ERP 6.0	Provides information and references to notes regarding Support Package (SP) Stacks for SAP Enhancement Package 6 for SAP ERP 6.0. This SAP Note is updated regularly.
1566412	Enhancement package 6 for SAP ERP 6.0: Required SWC	Provides information about the relation between business functions and the technical usage for the current enhancement package.
1598141	SAP Enhancement Package 6 for SAP ERP 6.0: Compatible Add-ons	If you plan to run SAP Enhancement Package 6 for SAP ERP 6.0 together with an Add-On on the same system, this SAP Note points out what you have to consider.
1524246	Relationship of Licenses and Business Functions	Explains which licenses you require when you activate a business function.
1621361	SAP ERP 6.0 EHP 6: Collective Note for Predefined Roles	Lists all application roles that are delivered with SAP Enhancement Package 6 for SAP ERP 6.0.
1468349	SAP Business Suite 7 for SAP NetWeaver 7.3 hub systems	Describes which applications can run on a hub system with SAP NetWeaver 7.3 and as of which start release or SAP Enhancement Package this is possible.
1496212	SAP ERP 6.0 EHP 6 SPS 01 - Release & Information Note	Contains information and references to notes for applying Support Package (SP) Stacks of SAP Enhancement Package 6 for SAP ERP 6.0.
1631422	EHP6 FOR SAP ERP 6.0 - Additional Information for HCM	Contains information about the automatic update of SAP_APPL to version 6.06 when updating the HCM part of EHP6.
1645464	HRSP Information for SAP Enhancement Package 6	Provides information on HR Support Packages for SAP enhancement package 6 for SAP ERP 6.0.
Related to SAP NetWeaver		
1302772	Additional Information – SAP Enhancement Package installer 7.02	Contains corrections for errors in the installation procedure, preparations for the installation and additional information to the guides.
1388258	Version Interoperability within the SAP Business Suite	Gives information about the version interoperability within a SAP Business Suite System Landscape.
1440337	SP Equivalence for Update/Upgrade to EHP2 for SAP NW 7.0	Gives the required SPS level of the target release, if you are performing an upgrade or update to SAP EHP 2 for SAP NetWeaver 7.0.
1515223	SAP NetWeaver Process Integration: Release Recommendation	Gives SAP's recommendation on which release of SAP NetWeaver PI you should use.

SAP Note Number	Title	Content
1648883	Using SAP NetWeaver ILM with SAP ERP 6.0 EHP 6	This SAP Note specifies what you must take into account when you want to use SAP NetWeaver Information Lifecycle Management with SAP ERP 6.0 Enhancement Package 5, for example, which technical usage you should select. For more information, see http://www.sdn.sap.com/irj/sdn/ilm .
Related to SAP Solution Manager		
1122966	Maintenance Optimizer: Notes for Enhancement Packages	Gives information about the import of ERP 6.0 Enhancement Packages using the Maintenance Optimizer. The import is possible as of SAP Solution Manager 4.0 Support Package 13.
Related to Enterprise Services		
1224284	Enterprise Services, Installing and Accessing the SOA Docu	If you want to use enterprise services, this SAP Note gives an overview of which sets of services are available, how to install and access the documentation and which product versions, software components, technical usages, and business functions they require.
1359215	Technical prerequisites for using enterprise services	If you want to install an enhancement package and/or use enterprise services, this SAP Note explains how you ensure that the services are available and can be activated in your system.
Related to BI Content		
947953	BI_CONT 7.11: Information about the installation and upgrade	Provides information about Business Intelligence Content 7.11 in relation to installation, basis upgrade to SAP_BW 7.10, and Add-On Support Packages.
916834	BI_CONT 7.03: Information about the installation and upgrade	Contains information about Business Intelligence Content 7.03 in relation to Add-On installation, basis (BW) upgrade to SAP_BW 7.00, and add-On support packages.
1345320	Business Objects Enterprise Integration to NetWeaver BI	Explains which components to install, if you want to use the Crystal Reports delivered by SAP with NetWeaver BI.
1353044	Installation Guide Crystal Report Adapter	If you want to use the integration of Crystal Report into the Advanced List Viewer (ALV) you have to install a frontend component on the client / desktop machine. This SAP Note describes the supported platforms, the prerequisites and the installation steps.

A.3 Related Documentation

The following table lists additional documentation for your reference:

Title	Location
ERP Guides	
Media List for SAP Enhancement Package 6 for SAP ERP 6.0	▶ http://service.sap.com/erp-ehp6-inst → <i>Media List</i> ◀
SAP ERP Master Guide	▶ http://service.sap.com/erp-ehp6-inst ◀
Installation Tool Guides	<ul style="list-style-type: none"> ■ ▶ http://service.sap.com/erp-ehp6-inst ◀ ■
<ul style="list-style-type: none"> ■ Installation Guide — SAP Systems Based on the Application Server ABAP of SAP NetWeaver 7.0 including EHP3 on <Operating System>: <Database> ■ Installation Guide — SAP Systems Based on Application Server Java of SAP NetWeaver 7.3 on <Operating System>: <Database> 	
Software Update Manager Tool Guides	▶ http://service.sap.com/sltoolset → <i>Software Logistics Toolset 1.0</i> → <i>Documentation section: System Maintenance</i> → <i>Updating SAP Systems Using Software Update Manager <Version></i> ◀
<ul style="list-style-type: none"> ■ Update Guide — Update of SAP Systems Using the Software Update Manager <latest version> ■ Upgrade Guide — Upgrade of SAP Systems Using the Software Update Manager <latest version> 	
SAP ERP-application specific upgrade and update guides: Upgrade & Update Guides: SAP Enterprise Resource Management 6.0 Enhancement Package 6 <ABAP or Java>	▶ http://service.sap.com/erp-ehp6-inst ◀
Planning Guide — SAP Business Suite Landscape Implementation	▶ http://service.sap.com/erp-ehp6-inst ◀
Additional Industry Guides	
SAP Industry Master Guides	▶ http://service.sap.com/instguides → <i>Industry Solutions</i> ◀
Additional NetWeaver Guides	
SAP NetWeaver 7.3 Guides	http://service.sap.com/instguidesNw73
SAP NetWeaver Installation Guides (including Master Guide)	http://service.sap.com/installNw73
SAP NetWeaver Upgrade (and Migration) Guides	http://service.sap.com/upgradeNw73
SAP NetWeaver Maintenance	http://service.sap.com/MaintenanceNw73
SAP NetWeaver — Notes	http://service.sap.com/SAPNotesNw70
Additional Sources for Information	
SAP Terminology Database	http://service.sap.com/sapterm
General Information on SAP ERP	http://service.sap.com/erp
Hardware Sizing	http://service.sap.com/sizing

A.4 Tools and Resources for Planning Your System Landscape

Title	Location
Planning the System Infrastructure (Technical Infrastructure)	http://service.sap.com/network
Security Guide	http://service.sap.com/securityguide
Overview of platform and technology related topics	http://service.sap.com/platforms
Support Package Stack Strategy	http://service.sap.com/sp-stacks
Product Availability Matrix	http://service.sap.com/pam
Safeguarding Services for Upgrade	http://service.sap.com/safeguardingupgrade
Upgrade Adjustments with SAP/SPDD	http://service.sap.com/spau
SAP Solution Browser	solutionbrowser.erp.sap.fpmmedia.com
High Availability	http://service.sap.com/ha
SAP Note Search	http://service.sap.com/notes
SAP ERP Business Map	http://service.sap.com/businessmaps
SAP NW - Enterprise Portal, or SAP NW – EP Core Information	http://service.sap.com/nw-ep
Upgrade Road Map (latest version)	▶ http://service.sap.com/solutionmanage → Downloads → Other Content ◀
Software/Support Package Download Area	http://service.sap.com/swdc
R/3 Plug-in	http://service.sap.com/r3-plug-in
SAP NW - Enterprise Portal/SAP NW – EP Core Content	http://service.sap.com/ep-content
SAP NetWeaver Rapid Installer	http://service.sap.com/nw-ri
SAP NetWeaver Business Intelligence documentation	http://service.sap.com/bi
SAP Learning Solution documentation	http://service.sap.com/learningsolution
SAP Product Lifecycle Management	http://service.sap.com/plm
SAP Internet Sales in SAP ERP	http://service.sap.com/isa-r3

A.4 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 some tools that allow you to look up more detailed information about business scenarios, business processes and implementable steps. These tools include the following:

Tools for Looking Up Information about Business Processes, Scenarios, and Implementable Steps

Tool	Purpose
Business process repository (BPR) viewer	To look up descriptions of business scenarios, business processes, and implementable steps

Tool	Purpose
Scenario and process component list	To look up the required components and releases for a business scenario, business process, or implementable steps

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:

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

You require at least one of the following versions of SAP Solution Manager.

- SAP Solution Manager 7.0 EHP1, SPS23 or higher
- SAP Solution Manager 7.1, SPS01 or higher

SAP Solution Manager 7.0 EHP1, SPS23 supports all update and maintenance processes (for example, transaction SMSY or Maintenance Optimizer) There is no need to upgrade to SAP Solution Manager 7.1.

For more information, see SAP Service Marketplace at <http://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* (SP31).

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 ► <http://www.sdn.sap.com/irj/sdn> → *Application Lifecycle Management* → *Technical Enablement* → *Update and Upgrade* → *Related Areas on Upgrade and Update Management* → *Landscape Verification* ◀ (<http://www.sdn.sap.com/irj/sdn/alm?rid=/webcontent/uuid/70fc3790-7ec9-2d10-57ad-95b2d0d1185d>).

SAP Business Suite: Landscape Implementation — Technical Planning Guide

To get an overview of the necessary steps for planning a system landscape, use the *Landscape Implementation — Technical Planning Guide* on SAP Service Marketplace at <http://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.4.1 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.4.2 Using the BPR Viewer

Procedure

Calling Up the BPR Viewer

You can call up the BPR viewer directly using the Internet address <https://implementationcontent.sap.com/bpr>. Alternatively, you can also call up the Internet address <http://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:

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.

**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.4.3 Scenario and Process Component List (SCL & PCL)

The scenario and process component list (SCL/PCL) is a tool on the SAP Service Marketplace that allows you to find realization alternatives for SAP solutions, business scenarios, and processes for your SAP enhancement package installation. You find the tool at <http://service.sap.com/sc1>.

The SCL/PCL helps you to bridge the gap between the business view and the technical view in SAP's products. It shows you which application components are needed to realize a business scenario or a process and which business scenarios are possible with a given set of application components.

A.4.4 Using the SCL/PCL**Procedure**

1. Go to SAP Service Marketplace at <http://service.sap.com/sc1>.
2. To start the SCL/PCL, choose *Start Application*.

The following selection options are provided:

- SAP Scenarios and Realization Alternatives
With this option you can browse SAP's solutions, business scenarios, and processes. You can find out which components are needed and the available alternatives.
- SAP Components and Possible Scenarios
This option allows you to browse SAP's products and components and to find out, which business scenarios and processes you can realize using the components.

For more information on how to use the tool, refer to the *Help* section.

3. Select *SAP Scenarios and Realization Alternatives*.

Select one or several scenarios, processes, and variants you want to realize. You can make your selection by using an alphabetical index or a full-text search. It is also possible to see all scenarios for a certain solution. You will then get a list of the alternative ways to realize these scenarios. You can also search for the identified business functions of a SAP enhancement package.

In the following steps we chose the scenario *Billing Analysis in ERP* as an example.

4. Add the scenario *Billing Analysis in ERP* to the *Selected Scenarios/Processes/Variants* list and choose *Show Realization Alternatives*. The SCL/PCL then lists the different possibilities. With options like *Validity* you can switch between possible and impossible realization alternatives. The *Optional Comp.* dropdown list helps you to find the minimum required SAP product versions.

A.5 SAP Solution Manager

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. 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 under <https://service.sap.com/solutionmanager>.

Typographic Conventions

Example	Description
<Example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, "Enter your <User Name>".
▶ Example → Example ◀	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
Example	Words or characters that you enter in the system exactly as they appear in the documentation
http://www.sap.com	Textual cross-references to an internet address
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
123456	Hyperlink to an SAP Note, for example, SAP Note 123456
Example	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Output on the screen following a user action, for example, messages Source code or syntax quoted directly from a program File and directory names and their paths, names of variables and parameters, and names of installation, upgrade, and database tools
EXAMPLE	Technical names of system objects. These include report names, program names, transaction codes, database table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE
EXAMPLE	Keys on the keyboard

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Documentation in the SAP Service Marketplace

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

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