



Upgrade and Update Guide SAP ERP 6.0 Including Enhancement Package 7 ABAP

Target Audience

- System Administrators
- Technology Consultants

PUBLIC

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Document History



CAUTION

Before you start the implementation, make sure you have the latest version of this document.
For the latest version, see <http://service.sap.com/instguides>.

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

Version	Date	Description
1.0	2013-08-13	Final version
	2013-09-26	<ul style="list-style-type: none"> ■ Section <i>Preparation</i> Information on free space requirements for SUM directory updated ■ Section <i>Planning</i> Information on dual-stack-split added
	2013-10-16	Section <i>Planning</i> Information on supported source releases updated
1.1	2013-10-31	Section <i>Process</i> : Subsection <i>Note about the Process</i> : Toolset version updated Subsection <i>SAP HANA: Update and Migration Process</i> : Information on the <i>Database Migration Option (DMO)</i> of the <i>Software Update Manager</i> added
1.2	2013-11-15	Section <i>Process</i> : Subsection <i>SAP HANA: Update and Migration Process</i> : Information on SAP HANA content activation updated
1.3	2014-01-16	Cross-references to SL Toolset guides updated

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Only valid for: Enhancement Package Installation;Installation;Upgrade |

1 Getting Started

Only valid for: Enhancement Package Installation;Upgrade |

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

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Installation;Upgrade |

1.1 Essential Information: Process and Documentation Overview

Only valid for: Enhancement Package Installation;Upgrade |

This guide contains information specific to SAP ERP only, but you need additional information to perform your upgrade correctly.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

Software Update Manager

In addition to the application-specific guide, you use the Software Update Manager (SUM) for the upgrade or update.

The following table contains definitions of these terms:

Term	Definition
<i>Update</i>	Installation of an enhancement package in an existing SAP system.
<i>Upgrade</i>	Upgrade to an SAP system including an enhancement package.

The Software Update Manager (SUM) guide contains information on the overall process, tools, the operating system and the database, while this guide contains the application-specific information. For the SUM guides, see SAP Service Marketplace at ► <http://service.sap.com/sltoolset> → *Software Logistics Toolset 1.0* → *Documentation* section: *System Maintenance* → *Updating SAP Systems Using Software Update Manager <Version>* ◀.

End of: Enhancement Package Installation;Upgrade |

Master Guide

- Make sure that you also read the Master Guide for SAP Enhancement Package 7 for SAP ERP 6.0. The Master Guide provides you with the overall view of the implementation process, meaning

installation, upgrade or update processes, and with references to important information during implementation.

- Make sure that you collect all the information about planning and implementation processes that is contained in the Master Guide before starting your installation, upgrade, or update project.
- Make sure that you have downloaded the latest version of the *Master Guide SAP Enhancement Package 7 for SAP ERP 6.0* from SAP Service Marketplace at ► <http://service.sap.com/erp-ehp7-inst> ◀.

More Information

You can access documentation for all maintained product releases on SAP Help Portal at ► <http://help.sap.com/erp> ◀.

Target Release Documentation

The documentation for the target release is not available online in your system until you have completed the upgrade and the installation procedure for the online documentation.

Before the upgrade, ensure that you can read the DVD offline. After the upgrade, you need to install the documentation for the target release.

For SAP Library for SAP ERP 6.0 including SAP enhancement package 7, see SAP Help Portal at ► <http://help.sap.com/erp> ◀.

SAP Fiori Apps

For more information regarding SAP Fiori apps, see *SAP Fiori for SAP ERP* in the documentation of SAP ERP on SAP Help Portal at ► <http://help.sap.com/erp> ◀.

End of: Enhancement Package Installation; Installation; Upgrade |

1.2 Important SAP Notes

Only valid for: Enhancement Package Installation; Upgrade |

Note Number	Title	Comment
1816819	<i>Dual Stack support for Suite7i2013</i>	Contains information about a dual-stack split required for the upgrade to SAP Business Suite 7i2013 or SAP NetWeaver 7.4.
1737650	<i>Release Information Note SAP EHP7 for SAP ERP 6.0</i>	Contains a list of all SAP ERP 6.0 Release and Information Notes (RIN) that have been issued for SAP enhancement package 7 for SAP ERP 6.0.
1742750	<i>Upgrade from SAP ERP 2004 to EHP7 for SAP ERP 6.0</i>	Contains information about the upgrade to SAP enhancement package 7 for SAP ERP 6.0 for ABAP and Java standalone systems.
998833	<i>Release Restrictions SAP ERP 6.0 - Enhancement Packages</i>	Provides information about the limitations for SAP enhancement packages for SAP ERP 6.0:

Note Number	Title	Comment
1818596	<i>Enhancement package 7 for SAP ERP 6.0: Required SWC</i>	Describes the software components of your SAP system that you need to update in order to use enhancement package 7 functionality.
1820906	<i>SAP Enhancement Package 7 for SAP ERP 6.0: Compatible Add-ons</i>	Informs you about the points you have to consider when you plan to run SAP enhancement package 7 for SAP ERP 6.0 together with an add-on in the same system.
156387	<i>Composite Note on Upgrade Problems for the SAP Component HR (Human Resources)</i>	This is an HR-specific SAP Note.
774615	<i>Support Package Levels for SAP ERP / SAP ECC Installations and Upgrades</i>	Contains information about the ABAP Support Package levels and kernel patch levels contained in the installations and release upgrades (including Support Releases) listed in the SAP Note.
1000009	<i>ASU Toolbox</i>	Contains information about the ASU Toolbox. The ASU Toolbox enables the customer to recognize the steps that are required before and after the update in addition to the actual technical update. Furthermore, the ASU Toolbox performs these steps in the system in a controlled manner.
1468349	<i>SAP Business Suite 7 for SAP NetWeaver 7.3 hub</i>	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.
1600482	<i>Hierarchical access functionality</i>	Upgrade SAP Note describing an incompatible change.
835625	<i>XSS Backend UI Conversion Classes</i>	Describes the changes made in UI conversion classes in SAP ERP 6.0.
1678780	<i>Installation or upgrade of BI_CONT/BI_CONT_XT 7x7</i>	Contains upgrade information for Business Intelligence Content.
1765693	<i>BI_CONT 707/737/747: Information on Add-On Support Packages</i>	Information on add-on support packages for BI Content 707/737/747
1262124	<i>Vendor Key Handling in ERP Enhancement Packages</i>	Contains information about vendor keys to keep existing add-on versions.
1605816	<i>FI: Posting/Clearing – Upgrade to EHP6 for Modified Programs</i>	Relevant for customers who have modified programs prior to SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606).
1808032	<i>BI_CONT 707 SP04 and higher: Information on Add-On SPs</i>	Contains information on add-on Support Packages for component BI_CONT.
1808103	<i>BI_CONT 737/747 SP04 and higher: Information on Add-On SPs</i>	Contains information about add-on Support Packages for BI_CONT or BI_CONT_XT737/747.
1790828	<i>Central Note - Software Update Manager 1.0 SP08 [lmt_004]</i>	Contains additional information on the update guides.

Note Number	Title	Comment
<u>1680045</u>	<i>Release Note for Software Provisioning Manager 1.0</i>	Contains remarks, annotations, and corrections discovered after the installation and publication of the system copy guides.
<u>1514967</u>	<i>SAP HANA: Central Note</i>	Central SAP Note for SAP In-Memory Appliance (SAP HANA).
<u>1514966</u>	<i>SAP HANA 1.0: Sizing SAP In-Memory Database</i>	Contains information about sizing for the SAP In-Memory Database (SAP HANA).
<u>1793345</u>	<i>Sizing for Suite on HANA</i>	Contains suite-specific sizing information for the SAP In-Memory Database (SAP HANA).
<u>1681092</u>	<i>Multiple SAP HANA databases on one appliance</i>	Contains support information and special considerations for multiple SAP HANA databases on a single SAP HANA appliance.
<u>1826100</u>	<i>Multiple applications SAP Business Suite powered by SAP HANA</i>	Contains support information and special considerations for multiple applications on a single SAP HANA system within SAP Business Suite.
<u>1655335</u>	<i>Use Cases for Splitting Dual-Stack Systems</i>	Contains information about splitting SAP dual-stack systems.
<u>1785057</u>	<i>Recommendations for migrating suite systems to SAP HANA</i>	Contains recommendations for migrating suite systems to SAP HANA.
<u>1794297</u>	<i>Secondary Indexes for the business suite on HANA</i>	Contains information about when using secondary indexes is beneficial.
<u>1798895</u>	<i>Additional information for manual ABAP-on-HANA correction process</i>	Contains additional information for manual ABAP-on-HANA corrections.
<u>1881281</u>	<i>Business Suite on SAP HANA content activation problems</i>	Contains information on solutions for SAP HANA content activation problems that occur during the installation or update of Business Suite on SAP HANA releases.
<u>1887726</u>	<i>EHP7 for ERP 6.0: HANA Content Sanity Check Before Update</i>	Contains information about checks to ensure that SAP HANA content is activated correctly.
<u>1928220</u>	<i>ERP EHP7 SP02: HANA Content Activation</i>	Contains information about the activation of SAP HANA content.
<u>1875197</u>	<i>Using DMO of SUM for SAP Business Suite systems</i>	Describes the procedure to follow in order to make use of the capabilities of Software Update Manager to combine the update and migration to SAP HANA.
<u>1813548</u>	<i>Database Migration Option (DMO) for Software Update Manager</i>	Contains information about constraints, restrictions, and solutions to problems in the update/upgrade and migration process.

End of: Enhancement Package Installation; Upgrade |

1.3 Naming Conventions

Only valid for: Enhancement Package Installation;Installation;Upgrade |

SAP ECC System and SAP System

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

End of: Enhancement Package Installation;Installation;Upgrade |

Only valid for: Enhancement Package Installation;Installation;Upgrade |

SAP System ID

In this document, the SAP system ID is abbreviated as “SAPSID” or “sapsid”. If “<sapsid>” is used, your SAP system ID must be in lowercase, for example “prd”. If “<SAPSID>” is used, it must be in uppercase, for example “PRD”.

End of: Enhancement Package Installation;Installation;Upgrade |

Only valid for: Enhancement Package Installation;Installation;Upgrade |

SAP R/3 Enterprise and SAP ERP Central Component

SAP ERP Central Component is the successor of SAP R/3 Enterprise. It consists of the SAP ERP Central Component Core with SAP ERP Central Component Extension Set. In this document, the following short forms are used:

- “SAP ECC” for “SAP ERP Central Component”
- “SAP ECC Core” for “SAP ERP Central Component Core”
- “SAP ECC Extension Set” for “SAP ERP Central Component Extension Set”

End of: Enhancement Package Installation;Installation;Upgrade |

Only valid for: Enhancement Package Installation;Installation;Upgrade |

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

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

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

End of: Enhancement Package Installation;Installation;Upgrade |

Only valid for: Enhancement Package Installation;Installation;Upgrade |

Usage of Release Names

Unless otherwise specified, the term “release” is used in this document to refer to the release of the SAP ECC system or SAP ERP system. The titles of product-specific sections start with the name of the product, for example, “SAP ECC: Backing Up UI Conversion Classes in ESS”.

The following table explains which release of SAP Basis, SAP Web Application Server, and SAP NetWeaver Application Server corresponds to which release of SAP R/3, SAP ECC and SAP ERP:

SAP Basis / SAP Web Application Server / SAP NetWeaver Application Server	SAP R/3 / SAP ECC / SAP ERP
SAP Basis 4.6C	SAP R/3 4.6C
SAP Web Application Server 6.20	SAP R/3 Enterprise 4.70 with SAP R/3 Enterprise Extension Set 1.10 or SAP R/3 Enterprise Extension Set 2.00
SAP Web Application Server 6.40	SAP ECC 5.00
SAP NetWeaver Application Server 7.0	SAP ERP 6.0
SAP NetWeaver Application Server 7.0 including enhancement package 1	SAP enhancement package 4 for SAP ERP 6.0
SAP NetWeaver Application Server 7.0 including enhancement package 2	SAP enhancement package 5 for SAP ERP 6.0
SAP NetWeaver Application Server 7.0 including enhancement package 3	SAP enhancement package 6 for SAP ERP 6.0
SAP NetWeaver Application Server 7.4	SAP enhancement package 7 for SAP ERP 6.0

End of: Enhancement Package Installation;Installation;Upgrade |

End of: Enhancement Package Installation;Installation;Upgrade |

2 Planning

Only valid for: Enhancement Package Installation;Upgrade |

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

End of: Enhancement Package Installation;Upgrade |

2.1 Supported Source Releases

This section provides an overview of the supported upgrade and update paths to SAP enhancement package 7 for SAP ERP 6.0.

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



CAUTION

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

Source Releases	Target Release	Upgrade Type
SAP R/3 4.6C	SAP ERP 6.0 including SAP enhancement package 7 (based on SAP NetWeaver 7.4)	One-step upgrade
SAP R/3 Enterprise 4.70 Extension Set 2.00	SAP ERP 6.0 including SAP enhancement package 7 (based on SAP NetWeaver 7.4)	One-step upgrade
SAP R/3 Enterprise 4.70 Extension Set 1.10	SAP ERP 6.0 including SAP enhancement package 7 (based on SAP NetWeaver 7.4)	One-step upgrade
SAP ERP Central Component Core 5.00 with SAP ERP Central Component Extension Set 5.00	SAP ERP 6.0 including SAP enhancement package 7 (based on SAP NetWeaver 7.4)	One-step upgrade
SAP ERP 6.0	SAP ERP 6.0 including SAP enhancement package 7 (based on SAP NetWeaver 7.4)	Enhancement package installation
SAP ERP 6.0 including SAP enhancement package 2 – 6	SAP ERP 6.0 including SAP enhancement package 7 (based on SAP NetWeaver 7.4)	Enhancement package update

Only valid for: Enhancement Package Installation;Upgrade |

**NOTE**

If your source system is on ERP 6.0, the minimum NW SP level should be SAP NetWeaver 7.0 SPS14 for you to trigger an upgrade to EHP7. For more information on equivalent SAP NetWeaver SPs, see SAP Note [1850327](#).

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

2.2 Dual-Stack Split

Dual-stack systems are no longer supported for the upgrade target SAP enhancement package 7 for SAP ERP 6.0. For more information, see SAP Note [1816819](#).

If your SAP ERP system is currently implemented as a dual-stack system, you need to perform a split on your source system before starting the upgrade.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

2.3 Using the Application-Specific Upgrade Toolbox

Only valid for: Upgrade |

**NOTE**

This only applies to the ABAP part of the upgrade.

End of: Upgrade |

The application-specific upgrade toolbox (ASU Toolbox) allows you to manage the preparation and follow-up activities you need to perform for the technical upgrade.

It consists of the following two parts:

- Application-specific content (ASU content definition) in the form of an XML file
The XML file contains a list of manual and automatic steps. It is included in the upgrade export and updated with the correction package for the upgrade program.
- Interface that interprets the XML file and presents the steps to the user for processing
Before the upgrade, this interface displays the preparation activities. After the upgrade, it displays the follow-up activities.
You can use the interface to enhance the XML file with your own activities and comments.

Prerequisites

- Your source release SAP system contains the add-on ST-PI 2008_1_<x> (where <x> stands for one of the following: 46C, 620, 640, 700 or 710).

2.3 Using the Application-Specific Upgrade Toolbox

- You require authorization for the following transactions:
 - /ASU/START
 - /ASU/UPGRADE
 - /ASU/SSM
- You have the authorizations that you require for the individual activities in the ASU Toolbox step list.

**RECOMMENDATION**

Operate the ASU Toolbox with a user with SAP_ALL authorizations.

Procedure

In the roadmap step *Checks*, the upgrade program prompts you to call transaction /ASU/UPGRADE. For more information, see SAP Note [1000009](#).

**NOTE**

You can perform the follow-up activities listed in the ASU Toolbox in parallel to adjusting repository objects using transaction SPAU.

End of: Enhancement Package Installation;Upgrade |

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that are printed on both sides.**

Only valid for: Enhancement Package Installation;Upgrade |

3 Preparation

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

Only valid for: Enhancement Package Installation;Upgrade |

3.1 Free Space Requirements

Make sure that the system that you want to update (upgrade) has at least the following amount of free space:

Database-Independent

Software Update Manager (SUM) Directory	Approximately 50 GB
Download Directory (temporary space requirement)	Approximately 10 GB
DIR_TRANS	Approximately 10 GB
Shadow System	Approximately the space required for your source release instance, that is, the size of the following directories: <ul style="list-style-type: none"> ■ UNIX: <code>usr/sap/<sapsid></code> ■ Windows: <code><drive>\usr\sap\<sapsid></code> ■ IBM i: <code>usr/sap/<SID></code>

Database-Dependent

Free space in the database	Approximately 50 GB IBM DB2 for i only: The database of a system without customer data needs approximately 80 GB of disk space. However, during the upgrade, you might temporarily need up to 120 GB.
----------------------------	---

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

3.2 SAP ECC: Customize RFC Destination

If you are using the FINBASIS software component and want to avoid errors in phase XPRAS_AIMMRG of the update, you have to customize a special RFC destination with a DDIC user. A DDIC user is required

3.3 SAP ECC: Initializing Fields in Table COKEY2

for this RFC destination since only DDIC users are not locked during the upgrade/update. For more information, see SAP Note [912369](#).

End of: Enhancement Package Installation; Upgrade |

Only valid for: Upgrade |

3.3 SAP ECC: Initializing Fields in Table COKEY2

Procedure

With SAP ERP 2004, table COKEY2 has been extended by two fields. As the upgrade does not initialize the fields, you need to run report Z_873466_REPAIR_AFTER_UPGRADE before you perform the upgrade.

For more information, see SAP Note [873466](#).

End of: Upgrade |

Only valid for: Enhancement Package Installation; Upgrade |

3.4 SAP ECC: Backing Up Wage Types in HR (T512W) (HR Customers)

Only valid for: Upgrade |

We recommend that you back up the wage type table T512W before the upgrade. You must back up this table in the following cases:

End of: Upgrade |

Only valid for: Enhancement Package Installation |

We recommend that you back up the wage type table T512W before installing the enhancement package. You must back up this table in the following cases:

End of: Enhancement Package Installation |

- You have modified technical wage types, meaning wage types beginning with “/” (adjustment of processing class, evaluation class, and so on).
- You are using SAP model wage types, meaning wage types beginning with a letter, and have modified these wage types.
- You have defined wage types that are not within the customer name range. To check whether this applies, in table TRESC enter **T512W** as the table name and **TABU** as the object.

Prerequisites

You use the SAP component Human Resources (SAP HR).

Procedure

1. Only valid for: Upgrade |

Before the upgrade, back up table T512W or selected areas of this table.

End of: Upgrade |

3.5 SAP ECC: Backing Up UI Conversion Classes in ESS

Only valid for: Enhancement Package Installation |

Before installing the enhancement package, back up table T512W or selected areas of this table.

End of: Enhancement Package Installation |

Use report RPU12W0S for this. The documentation on the report includes instructions on how to proceed.

**NOTE**

Table T512W is client-specific. Make sure that you back up the data in all the SAP HR clients in the system.

2. Document exactly which wage types you have modified.

3. Only valid for: Upgrade |

After the upgrade you can restore your backup copy.

End of: Upgrade |

Only valid for: Enhancement Package Installation |

After installing the enhancement package you can restore your backup copy.

End of: Enhancement Package Installation |

You can use report RPU12W0C for this. It reloads selected parts of table T512W. This method is particularly suitable if you have exact documentation on the wage types you have modified.

**NOTE**

If you are not sure whether you have to reload the table data, contact your HR application consultant.

Only valid for: Upgrade |

For more information about upgrading the SAP application component SAP HR, see SAP Service Marketplace at ► <http://service.sap.com/hrupgrade> ◀.

End of: Upgrade |

End of: Enhancement Package Installation; Upgrade |

Only valid for: Upgrade |

3.5 SAP ECC: Backing Up UI Conversion Classes in ESS

The following applies only if your source release is SAP ECC 5.0 and you are running an ESS Personal Info scenario. For SAP ECC 6.0, the UI conversion classes have been redesigned. If you have modified existing UI conversion classes or created new ones, your changes will be lost during the upgrade.

Procedure

- If you have modified existing UI conversion classes, proceed as follows:
 1. Before the upgrade, make a backup copy of the modified UI conversion classes.
 2. After the upgrade, use the Business Add-In (BAI) concept to enhance the new UI conversion classes in your target release system.
- If you have created UI conversion classes in SAP ECC 5.0, migrate your conversion classes.

3.6 SAP ECC: Integration of SAP E-Recruiting

For more information, see SAP Note [835625](#).

End of: Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

3.6 SAP ECC: Integration of SAP E-Recruiting

You can run SAP E-Recruiting in the same system as SAP ERP Central Component (SAP ECC) or in a different system in a standalone scenario.

Procedure

1. Follow the instructions described in SAP Note [997181](#).
2. If you encounter problems relating to the implementation HRRCF00_DELETE_SPREL of the Business Add-In (BAdI) HRALE00INBOUND_IDOC, change the activation status of the BAdI implementation to inactive. For more information, see SAP Note [1081660](#),

End of: Enhancement Package Installation;Upgrade |

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Installation;Upgrade |

4 Process

This section of the guide contains information about process-related application-specific tasks (in some cases, there are no application-specific tasks).

Only valid for: Enhancement Package Installation;Upgrade |

4.1 Note About the Process

The following table contains definitions of the terms “update” and “upgrade”:

Term	Definition
<i>Update</i>	Installation of an enhancement package in an existing SAP system.
<i>Upgrade</i>	Upgrade to an SAP system including an enhancement package.

The update and upgrade processes are described in detail in the Software Update Manager (SUM) guide *Update Guide - Update of SAP Systems Using the Software Update Manager 1.0 SP09*.

The corresponding toolset version is ToolSet 1.0 SPS09.

The SUM guide contains information on the overall process, tools, the operating system, and the database, while this guide contains the application-specific information.

SAP ERP 6.0 enhancement package 7 requires application-specific steps for SAP HANA in the *Process* section. All generic steps are documented in the SUM guides.

For the SUM guides, see SAP Service Marketplace at ► <http://service.sap.com/sltoolset> → *Software Logistics Toolset 1.0* → *Documentation section: System Maintenance* → *Updating SAP Systems Using Software Update Manager 1.0 SP09* ◀.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

4.2 SAP HANA: Update and Migration Process

This section of the guide provides an overview of the update and upgrade process steps required to enable SAP enhancement package 7 for SAP ERP 6.0 to run on SAP HANA, as well as the steps required to update a system already running on SAP HANA to SAP enhancement package 7 for SAP ERP 6.0.



NOTE

Updates from a system running on SAP HANA to SAP enhancement package 7 for SAP ERP 6.0 are possible only as of SAP HANA SP02 or higher.

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

1. System Copy

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

- For more information about copying systems based on SAP NetWeaver 7.1 (or higher), see the documentation at ► <http://service.sap.com/sltoolset> → *Software Logistics Toolset 1.0* → *Documentation section: System Provisioning* → *System Copy: Systems Based on SAP NetWeaver 7.1 or Higher* ◀.

2. Migration of an SAP ERP System to Run on SAP HANA

1. Installation of SAP HANA

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

For more information, see the following:

- ► <http://help.sap.com/hana> → *SAP HANA Appliance* → *System Administration and Maintenance Information* → *SAP HANA Technical Operations Manual (TOM)* ◀.
- SAP Note [1514967](#)

2. Installation of Application Function Libraries (AFLs)

Install the AFLs as described in the *SAP HANA Update and Configuration Guide* at ► <http://help.sap.com/hana> → *SAP HANA* → *SAP HANA Platform* → *Installation and Upgrade Information* ◀.



NOTE

SAP HANA runs natively on Unicode only. If your system does not yet run on Unicode, consider performing the conversion.

3. Content Activation

For the following upgrade paths and migration scenarios, you need to activate SAP HANA content such as *Stored Procedures* or *Calculation Views* manually in SAP HANA Studio:

Source Release	Target Release
SAP ERP 6.0 including SAP enhancement package 6 SP00 or higher	SAP ERP 6.0 including SAP enhancement package 7 SP02
SAP ERP 6.0 including enhancement package 7 SP00 or SP01	
Migration of SAP ERP 6.0 including enhancement package 7 SP02 on any database to run on SAP HANA database	

Proceed as follows:

1. Start SAP HANA Studio.
2. Go to the *Quick Launch*.

4.2 SAP HANA: Update and Migration Process

If needed, open it via the menu path ► *Help* → *Quick Launch* ⚡.

3. Select the system in charge. Ensure your SAP HANA Studio is connected to the system in charge using the SAP SID user.
4. In the Content section, choose *Activate*.
5. Choose the *Remove All* pushbutton to clear the selection on the right-hand side and enable a fresh selection.
6. Select the subtree sap.erp and choose the *Add* pushbutton.
All inactive objects for ERP are now selected.
7. Start the content activation by choosing the *Activate* pushbutton.

As a result, all SAP HANA content for SAP ERP is activated.

For more information, see SAP Note [1928220](#).

To ensure that SAP HANA content is activated correctly, we recommend that you perform the checks as described in SAP Note [1887726](#).

SAP HANA Content Activation: Upgrade Paths and Migration Scenarios

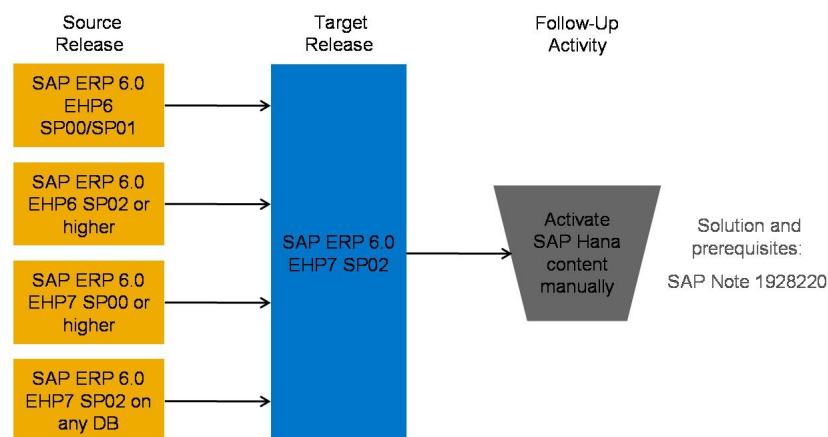


Figure 1: SAP HANA Content Activation: Upgrade Paths and Migration Scenarios



NOTE

Database Migration for SAP HANA Database

An existing SAP system is migrated to the SAP HANA database automatically using the *Database Migration Option* (DMO) of the Software Update Manager (SUM), which updates and migrates the database in one step. You need to use at least SPS09 of the Software Update Manager 1.0. For more information, see the following:

- SAP Note [1875197](#)
- SAP Note [1813548](#)
- SUM guide *Update of SAP Systems Using SUM 1.0 SP09 with DMO* at ► http://service.sap.com/~sapidb/011000358700000950402013E/SUM_DMO_V1_6.pdf ⚡ or

4.2 SAP HANA: Update and Migration Process

► <http://service.sap.com/sltoolset> → *Software Logistics Toolset 1.0* → *Documentation section:*
System Maintenance → *Update of SAP Systems Using SUM 1.0 SP09 with DMO* ◀

End of: Enhancement Package Installation; Upgrade |

End of: Enhancement Package Installation; Installation; Upgrade |

5 Follow-Up Activities

This section of the guide describes application-specific steps that have to be performed after the update or upgrade process is complete.

This section of the guide describes application-specific steps that have to be performed after the installation process is complete.

Only valid for: Enhancement Package Installation;Upgrade |

5.1 SAP ECC: Activating SAP ECC Enterprise Extensions

SAP ECC Enterprise Extension functions are activated by setting the activation switches. The activation of the switches depends on the later use of the SAP system.



CAUTION

Before you activate a switch, you must discuss this with your business consultants and the project team.

You cannot deactivate a switch once it has been activated.

Procedure

For more information about activating a switch and the possible restrictions, see SAP Note [816806](#).

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

5.2 SAP ECC: SAP HR Customers Only: Reloading Table T512W (Wage Types in HR)

Procedure

If you have saved table T512W before the upgrade, reload it now. For the exact procedure, see *SAP ECC: Backing Up Wage Types in HR (T512W) (HR Customers)* [[page 16](#)].

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

5.3 SAP ECC: SAP Retail Customers Only: Converting Short Texts

Procedure

You must replace the short texts for some languages. For more information, see the SAP online documentation under ► *Help* → *SAP Library* → *SAP ERP* → *SAP ERP Central Component* → *Logistics* → *SAP Retail* → *Basic Principles* → *Retail Terminology* ◀.

End of: Enhancement Package Installation;Upgrade |

Only valid for: Enhancement Package Installation;Upgrade |

5.4 Upgrade of Financial Accounting (FI-AP-AP-A, FI-AR-AR-A, FI-GL-GL-A)

In SAP enhancement package 6 for SAP ERP 6.00 (SAP_APPL 606), extensive changes have been made to the standard code. This applies to all of the transactions for the manual entry of documents. From a technical point of view, the following programs are affected: SAPMF05A, SAPMF05B, SAPMF05L, SAPDF05X, SAPLTAX1, SAPLKACB, SAPLFWTC, SAPLFWTD, SAPLFWTH, SAPLFWTI, SAPLFWTT, SAPLFWTU, SAPLFWTZ, SAPFX001, SAPF110E, SAPFF001, SAPFF002, SAPFF004, SAPFF011, SAPFF012, SAPFF014, SAPFS003, and SAPFS006.

Procedure

If you have **not modified** the programs concerned prior to SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), you do not need to take any further action.

If you have **modified** the programs concerned prior to SAP enhancement package 6 for SAP ERP 6.0 (SAP_APPL 606), then you must use transaction SPAU to perform a modification adjustment so that following an upgrade you can continue to use the programs as before. For more information about the changes you have to make in the code, see SAP Note [1605816](#).

End of: Enhancement Package Installation;Upgrade |

A Reference

A.1 The Main SAP Documentation Types

The following is an overview of the **most important** documentation types that you need in the various phases in the life cycle of SAP software.

Cross-Phase Documentation

SAPterm is SAP's terminology database. It contains SAP-specific vocabulary in over 30 languages, as well as many glossary entries in English and German.

- Target group:
 - Relevant for all target groups
- Current version:
 - On SAP Help Portal at ► <http://help.sap.com> → *Glossary* ◀
 - In the SAP system in transaction STERM

SAP Library is a collection of documentation for SAP software covering functions and processes.

- Target group:
 - Consultants
 - System administrators
 - Project teams for implementations or upgrades
- Current version:
 - On SAP Help Portal at <http://help.sap.com> (also available as documentation DVD)

The **security guide** describes the settings for a medium security level and offers suggestions for raising security levels. A collective security guide is available for SAP NetWeaver. This document contains general guidelines and suggestions. SAP applications have a security guide of their own.

- Target group:
 - System administrators
 - Technology consultants
 - Solution consultants
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/securityguide>

Implementation

The **master guide** is the starting point for implementing an SAP solution. It lists the required installable units for each business or IT scenario. It provides scenario-specific descriptions of preparation,

A.1 The Main SAP Documentation Types

execution, and follow-up of an implementation. It also provides references to other documents, such as installation guides, the technical infrastructure guide and SAP Notes.

- Target group:
 - Technology consultants
 - Project teams for implementations
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/instguides>

The **installation guide** describes the technical implementation of an installable unit, taking into account the combinations of operating systems and databases. It does not describe any business-related configuration.

- Target group:
 - Technology consultants
 - Project teams for implementations
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/instguides>

Configuration Documentation in SAP Solution Manager – SAP Solution Manager is a life-cycle platform. One of its main functions is the configuration of business scenarios, business processes, and implementable steps. It contains Customizing activities, transactions, and so on, as well as documentation.

- Target group:
 - Technology consultants
 - Solution consultants
 - Project teams for implementations
- Current version:
 - In SAP Solution Manager

The **Implementation Guide (IMG)** is a tool for configuring (Customizing) a single SAP system. The Customizing activities and their documentation are structured from a functional perspective. (In order to configure a whole system landscape from a process-oriented perspective, SAP Solution Manager, which refers to the relevant Customizing activities in the individual SAP systems, is used.)

- Target group:
 - Solution consultants
 - Project teams for implementations or upgrades
- Current version:
 - In the SAP menu of the SAP system under ► *Tools* → *Customizing* → *IMG* ◀

Production Operation

The **technical operations manual** is the starting point for operating a system that runs on SAP NetWeaver, and precedes the application operations guides of SAP Business Suite. The manual refers

A.1 The Main SAP Documentation Types

users to the tools and documentation that are needed to carry out various tasks, such as monitoring, backup/restore, master data maintenance, transports, and tests.

- Target group:
 - System administrators
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/instguides>

The **application operations guide** is used for operating an SAP application once all tasks in the technical operations manual have been completed. It refers users to the tools and documentation that are needed to carry out the various operations-related tasks.

- Target group:
 - System administrators
 - Technology consultants
 - Solution consultants
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/instguides>

Upgrade

The **upgrade master guide** is the starting point for upgrading the business scenarios and processes of an SAP solution. It provides scenario-specific descriptions of preparation, execution, and follow-up of an upgrade. It also refers to other documents, such as upgrade guides and SAP Notes.

- Target group:
 - Technology consultants
 - Project teams for upgrades
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/instguides>

The **upgrade guide** describes the technical upgrade of an installable unit, taking into account the combinations of operating systems and databases. It does not describe any business-related configuration.

- Target group:
 - Technology consultants
 - Project teams for upgrades
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/instguides>

Release notes are documents that contain short descriptions of new features in a particular release or changes to existing features since the previous release. Release notes about ABAP developments are the technical prerequisite for generating delta and upgrade Customizing in the Implementation Guide (IMG).

- Target group:

A.1 The Main SAP Documentation Types

- Consultants
- Project teams for upgrades
- Current version:
 - On SAP Service Marketplace at <http://service.sap.com/releasenotes>
 - In the SAP menu of the SAP system under ► *Help* → *Release Notes* ◀ (only ABAP developments)

Typographic Conventions

Example	Description
<Example>	Angle brackets indicate that you replace these words or characters with appropriate entries to make entries in the system, for example, “Enter your <User Name>”.
► Example → Example ◀	Arrows separating the parts of a navigation path, for example, menu options
Example	Emphasized words or expressions
<code>Example</code>	Words or characters that you enter in the system exactly as they appear in the documentation
http://www.sap.com	Textual cross-references to an internet address
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
123456	Hyperlink to an SAP Note, for example, SAP Note 123456
Example	<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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