



Administrator Guide

Administrator's Guide for HR Renewal 1.0 SP10

Using SAP Enhancement Package 6 for SAP ERP 6.0

Target Audience

- Consultants
- System Administrators

CUSTOMER

Document version: 1.0 – 2013-03-21

Document History



CAUTION

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

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

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

Version	Date	Description
1.0	2013-03-21	Initial Version

Table of Contents

Chapter 1	Getting Started	5
Chapter 2	Technical System Landscape	9
Chapter 3	Installation Information	11
3.1	Landing Page Installation Introduction	11
3.1.1	Landing Page: System Landscape	12
3.1.2	Landing Page Implementation Sequence	13
3.1.3	Maintaining SAP Gateway OData Services	13
3.1.4	Configuring ICF Nodes	15
3.1.5	Assigning the RFC Destination to Role SAP_PAO_HRPROFESSIONAL_2	16
3.2	Advanced Claims Management (ESS)	17
Chapter 4	Post Installation	19

**This page is left blank for documents
that are printed on both sides.**

1 Getting Started

About this Document

This document is a single source of information for the implementation of HR renewal 1.0 SP10. It contains implementation information as well as upgrade information, and is divided into the following main sections:

- Introduction with references to related documents and relevant SAP Notes
- Technical System Landscape
- Installation Information with a dedicated section for the landing page installation information
- Post-Installation with reference to feature-specific requirements and information about Solution Manager Content

Security information for HR renewal 1.0 is available in the *SAP ERP Central Component Security Guide* on SAP Service Marketplace at ► http://help.sap.com/hr_renewal → *Security Information* ◀



NOTE

You can find the most current version of this document on SAP Service Marketplace at ► <http://service.sap.com/instguides> → *SAP Business Suite* → *SAP ERP Add-Ons* → *HR renewal 1.0* ◀.

We strongly recommend that you use the document available there. The guide will be updated according to updates of the software.



NOTE

For product information on HR renewal 1.0, see ► http://help.sap.com/hr_renewal → *Application Help* ◀.

The product information for HR renewal 1.0 has links to:

- Application Help for HR renewal 1.0
- Roles for HR renewal 1.0
- Business functions for HR renewal 1.0
- Human Resources Security Guide

For release information, see ► <http://service.sap.com/releasenotes> → *SAP Solutions* → *SAP ERP Add-Ons* → *HR renewal 1.0* ◀

Important SAP Notes

You must read the following SAP Notes before you start the installation. These SAP Notes contain the most recent information on the installation, as well as corrections to the installation documentation. Make sure that you have the up-to-date version of each SAP Note, which you can find on SAP Service Marketplace at <http://service.sap.com/notes>.

SAP Note Number	Title
1701634	<i>HR renewal 1.0: Release Information Note</i>
1666367	<i>Release strategy for Netweaver UI Extensions</i>
1666369	<i>Support Packages for Netweaver UI Extensions Version 1.0</i>
1666368	<i>Installing Netweaver UI Extensions Version 1.0</i>
1551982	<i>Cross-Site request for forgery protection for stateless</i>
1567128	<i>Unauthorized use of application functions in system login</i>
1648418	<i>JSON Support in ABAP with 7.20 Kernel</i>
1650141	<i>JSON Support Kernel</i>
1803789	<i>New SSF-HR functionality available with HR renewal</i>

Related Guides

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

Title	Location
<i>Master Guide SAP Enhancement Package 6 for SAP ERP 6.0 Powered by SAP NetWeaver</i>	▶ http://help.sap.com/erp606 → <i>Installation und Upgrade Information</i> ◀
<i>Master Guide for SAP ERP 6.0</i>	▶ http://service.sap.com/instguides → <i>SAP Business Suite Applications</i> → <i>SAP ERP</i> → <i>SAP ERP 6.0</i> → <i>Planning</i> ◀
<i>Guides for SAP NetWeaver 7.0 including Enhancement Package 3 and the most recent support package stack</i>	▶ http://help.sap.com/nw703 ◀
<i>EHP6 for SAP ERP 6.0 Operations Guide</i>	▶ http://help.sap.com/erp606 → <i>System Administration and Maintenance Information</i> ◀
<i>SAP ERP Central Component Security Guide</i>	▶ http://service.sap.com/securityguide → <i>SAP Business Suite Applications</i> → <i>SAP ERP</i> → <i>6.0, EHP 6</i> → <i>SAP ERP 6.0 Security Guides</i> → <i>SAP ERP Central Component Security Guide</i> → <i>Human Resources</i> ◀
<i>Cookbook for Mass Processing</i>	▶ http://service.sap.com/instguides → <i>SAP Business Suite Applications</i> → <i>SAP ERP</i> → <i>SAP HR Renewal 1.0</i> → <i>HR Renewal 1.0 SP10</i> → <i>Mass Processing</i> ◀

Related Information

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

Content	Location on SAP Service Marketplace
Latest versions of installation and upgrade guides	http://service.sap.com/instguides
General information about SAP ERP HCM	http://service.sap.com/hcm

Content	Location on SAP Service Marketplace
Sizing, calculation of hardware requirements, such as CPU, disk and memory resource, the Quick Sizer tool	http://service.sap.com/quicksizer
Released platforms and technology-related topics such as maintenance strategies and language support	http://service.sap.com/platforms To access the Platform Availability Matrix directly, enter http://service.sap.com/pam
Network security	http://service.sap.com/securityguide
High Availability	http://service.sap.com/ha
Performance	http://service.sap.com/performance
Information about Support Package Stacks, latest software versions and patch level requirements	http://service.sap.com/sp-stacks
Information about Unicode technology	http://service.sap.com/unicode

Further Useful Links

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

Content	Location on SAP Service Marketplace
Information about creating error messages	http://service.sap.com/messages
SAP Notes search	http://service.sap.com/notes
SAP Software Distribution Center (software download and ordering of software)	http://service.sap.com/swdc
Maintenance Optimizer	http://service.sap.com/mopz
SAP Online Knowledge Products (OKPs), such as role-specific learning maps	http://service.sap.com/rkt

**This page is left blank for documents
that are printed on both sides.**

2 Technical System Landscape

For information on the technical system landscape, see the section *System Landscape* in the *Master Guide SAP enhancement package 4 for SAP ERP 6.0* on ► <http://service.sap.com/instguides> ◀.

For general information on planning your system landscape and implementation, see the section *Main Implementation Process and Related Documentation* in the *Master Guide for SAP enhancement package 6 for SAP ERP 6.0 Powered by SAP NetWeaver* on ► <http://help.sap.com/erp606> → *Installation and Upgrade Information* ◀.

**This page is left blank for documents
that are printed on both sides.**

3 Installation Information

The information in this section applies in addition to the installation information available on <http://help.sap.com/erp606> → *Installation and Upgrade Information* ↩.

General Requirements

- HR renewal 1.0 is installed. See the installation note [1691232](#). For more information, see the *Administrator's Guide for HR renewal 1.0* on <http://help.sap.com/erp-addons> → *HR renewal 1.0* → *System Administration and Maintenance Information* ↩
- You have followed the instructions in the RIN (Release Information Note) [1701634](#).

Feature-Specific Requirements

Features that require additional installation steps are listed in the following sections.

3.1 Landing Page Installation Introduction

When you install HR renewal 1.0 SP03 (EA-HR 607 SP03), the IW_BEP and the user interface addon 1.0 for SAP Netweaver are included. With this default installation, you can consume the PA0_HRPROFESSIONAL landing page and use the pre-delivered CHIPS. If you want to create your own chips, see <http://help.sap.com/nw-uiaddon> ↩. Under this alias you can also find information about the UI development toolkit for HTML5 (SAPUI5), SAPUI5 SDK, and SAP NetWeaver user interface services.



RECOMMENDATION

SAP recommends using SAP NetWeaver Gateway on the same server as the Business Suite application. This avoids the use of a reverse proxy.

Important SAP Notes and Related Documents for the Landing Page

SAP Note Number	Title
1666367	<i>Release strategy for Netweaver UI Extensions</i>
1666369	<i>Support Packages for Netweaver UI Extensions Version 1.0</i>
1666368	<i>Installing Netweaver UI Extensions Version 1.0</i>

Related Documents

Description	Location
Developer Guides for UI addon 1.0 for SAP NetWeaver enhancement package	http://help.sap.com/nw-uiaddon ↩

3.1 Landing Page Installation Introduction

Description	Location
3, including developer guides for UI2 and UI5	
Documentation for SAP NetWeaver 7.0 including Enhancement Package 3 and the most recent support package stack	▶ http://help.sap.com/nw703 ◀
SAP Web Dispatcher Guide	▶ http://help.sap.com/netweaver → SAP NetWeaver Platform → SAP NetWeaver Library → SAP NetWeaver Library: Function-Oriented View → Application Server → Application Server Infrastructure → SAP Web Dispatcher ◀
Documentation for SAP NetWeaver Gateway 2.0 and the most recent support package stack	▶ http://help.sap.com/nwgateway ◀
Security information for the LPB. This applies in addition to the security information in the section <i>Page Administration</i> .	<i>User interface (UI) add-on for SAP NetWeaver Security Guide</i> on SAP Service Marketplace at ▶ http://help.sap.com/nw-uiaddons → Security Information ◀

3.1.1 Landing Page: System Landscape

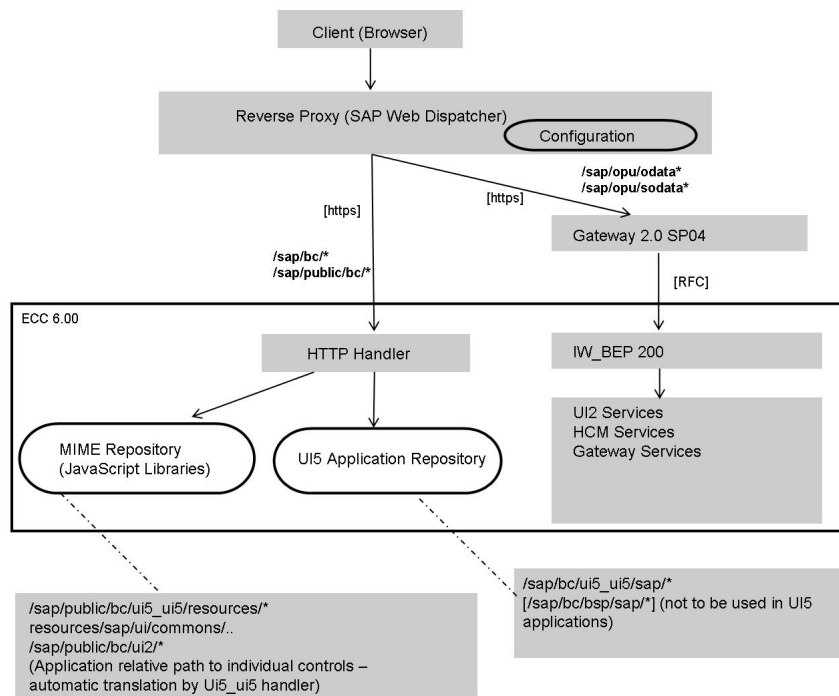


Figure 1: Landing Page: Overview of Technical Prerequisites

- The landing page requires Internet Explorer 9.0.
- SAP Streamwork must be installed to access the *Discussion* feature.
The business function `BC_SRV_STW_01` (*Enable SAP Streamwork ABAP Integration*) is required for SAP Streamwork integration.

Required SW Components

You need to install the stated versions of the following components:

Software Component	Version
EA-HR	607 SP10
IW_BEP	200 SP04
GW_CORE	200 SP04
IW_PGW	100 SP01
UI2_731	100 SP01 (UI add-on 1.0 for SAP enhancement package 3 for SAP NetWeaver 7.0)
NW 731	SP04 SAP enhancement package 3 for SAP NetWeaver 7.0 SP04

For more information, see SAP Note [1701634](#)

3.1.2 Landing Page Implementation Sequence

This table describes the overall implementation sequence for the landing page.


Implementation Sequence


Step	Action	System	Additional Information
1	Installation of HR renewal 1.0	See HR renewal Installation Note 1691232	For detailed information, see: <ul style="list-style-type: none"> HR renewal 1.0 release information note 1701634
2	Activation of business function HCM_PA0_CI_2	Back-end system	For detailed information, see the business function release note and documentation in transaction SFW5
3	Activate OData Services	SAP NetWeaver Gateway system	See <i>Maintaining SAP Gateway OData Services</i> [page 13]
4	Maintain Services	SAP NetWeaver Gateway system Back-end system	See <i>Configuring ICF Nodes</i> [page 15]
5	Maintain Customizing settings	Back-end system under ► <i>Personnel Management</i> → <i>Personnel & Organization</i> → <i>Landing Page</i> ◀	See the Customizing documentation.
6	Copy composite role SAP_PA0_HRPROFESSIONAL_2	Back-end system	For more information, see the SAP Help Library under ► https://help.sap.com/hr_renewal → <i>Application Help</i> → <i>Roles in Role Maintenance (PF CG)</i> ◀

3.1.3 Maintaining SAP Gateway OData Services

The landing page needs a reverse proxy to direct the browser requests to either the back-end system where the JavaScript sources are stored, or to the SAP Gateway system where the OData services are located.


Prerequisites


The system alias for the software version /IWPGW/BWF has been maintained in Customizing for **SAP NetWeaver** → *Gateway* → *OData Channel* → *Configuration* → *Connection Settings* → *SAP NetWeaver Gateway to SAP System* → *Manage SAP System Aliases* .

For more information, see **SAP NetWeaver** → *SAP NetWeaver Gateway* → *Configuration and Deployment Information* → *SAP NetWeaver Gateway Configuration Guide* → *OData Channel Configuration* → *Connection Settings on the SAP NetWeaver Gateway Hub System* → *Connection Settings: SAP NetWeaver Gateway to SAP Systems* → *Creating the SAP System Alias for Applications*. .

Procedure








In this procedure you activate and maintain the services listed below.

For information on activating these services, see the *SAP NetWeaver Gateway Developer Guide* on **SAP NetWeaver** → *SAP NetWeaver Gateway* → *Development Information* → *SAP NetWeaver Gateway Developer Guide* → *OData Channel* → *Basic Features* → *Service Life-Cycle* → *Activate and Maintain Services* .

Using the system alias defined in the Customizing activity *Manage SAP System Alias*, go to the Customizing activity **SAP NetWeaver Gateway** → *OData Channel* → *Administration* → *General Settings* → *Activate and Maintain Services*  and activate the following OData services for the Lanes Page Builder Catalog:

- PAO_USERCONTEXT
- /UI2/PAGE_BUILDER_CONF
- /UI2/PAGE_BUILDER_CUST
- /UI2/PAGE_BUILDER_PERS

Activate the following OData services for the lanes as listed in the Customizing documentation for:

- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Search Lane* → *Configure Search Lane* 
- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Actions Lane* → *Configure Launchpad for Actions Lane* 
- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Organization Lane* → *Configure Organization Lane* 
- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Organization Lane* → *Configure Tasks Lanes* 
- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Discussion Lane* → *Configure Discussion Lane* 
- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Analytics Lane* → *Configure Analytics Lane* 
- **SAP NetWeaver Gateway** → *Personnel Management* → *Personnel & Organization* → *Landing Page* → *Process Lane* → *Configure Process Lane* 



NOTE

Use the package \$TMP when you activate the OData service.

3.1.4 Configuring ICF Nodes

This section describes the configuration of ICF nodes when the external SAP NetWeaver Gateway system has a different client to the back-end ABAP system, and the configuration of the services for the landing page.

Procedure

External SAP NW Gateway System has a Different Client to the Back-End ABAP System

To avoid a wrong client user credentials request when running the landing page, configure the ICF nodes as described:

1. In your **ABAP back-end system**, call up transaction SICF and choose ► *Program* → *Execute* ⏏.
The *Maintain Services* screen appears.
2. Choose ► *Goto* → *External Alias* ⏏.
3. Select *Default Host* and choose ► *External Alias* → *Create* ⏏.
4. Choose *Trg Element* and navigate to ► *SAP* → *BC* → *UI5_UI5* → *SAP* ⏏.
5. Double-click the SAP node.
6. In the *External Alias* field, enter `/sap/bc/ui5_ui5/sap` and enter a meaningful description.
7. Choose the tab *Logon Data*. In the *Procedure* field, select *Required with Logon Data*.
8. Enter the client information as required and save your entries.
9. Logon to your **SAP NetWeaver Gateway system**, call transaction SICF and navigate to the respective service that the landing page uses.
10. Double-click the service `pao_usercontext`.
11. Choose the tab *Logon Data*. In the *Procedure* field, select *Required with logon Data*.
12. Repeat the above step for all services that the landing page uses.

Configuration of ICF Nodes for Services

1. In your **SAP NetWeaver Gateway system**, call up transaction SICF and choose ► *Program* → *Execute* ⏏.
The *Maintain Services* screen appears.
2. Choose ► *default_host* → *SAP* → *opu* → *OData* → *SAP* ⏏.
3. Right-click the SAP node and choose *Activate Service* and activate the service of all root nodes.
4. Repeat the process for ► *default_host* → *SAP* → *opu* → *OData* → *ui2* ⏏.
5. In your **SAP ABAP back-end system**, call up transaction SICF and choose ► *Program* → *Execute* ⏏.
The *Maintain Services* screen appears.
6. Choose:
 - *default_host* → *SAP* → *bc* → *bsp* → *SAP* ⏏, select the following services:
 - HRPAAO_COMMONS_JS
 - HRPAAO_LPB_JS

3.1 Landing Page Installation Introduction

- HRPAA0_LPD_G
- HRPAA0_ORGFAVS_G
- HRPAA0_SEARCH_G
- HRPAA0_SWFDUPD_G
- HRPAA0_TASKSWD_G
- HRPAA0_TASKS_G
- HRPAA0_PROCESS_G

Activate the above services (either via right-click of the mouse, *Activate Service* or in the menu under **▶ Service/host → Activate** ⚡)

- **▶ default_host → SAP → bc → ui5_ui5 → SAP** ⚡, select the following services:

- HRPAA0_COMMONS_JS
- HRPAA0_LPB_JS
- HRPAA0_LPD_G
- HRPAA0_ORGFAVS_G
- HRPAA0_SEARCH_G
- HRPAA0_SWFDUPD_G
- HRPAA0_TASKSWD_G
- HRPAA0_TASKS_G
- HRPAA0_PROCESS_G

Activate the above services (either via right-click of the mouse, *Activate Service* or in the menu under **▶ Service/host → Activate** ⚡)

- **▶ default_host → SAP → public → bc** ⚡, select the following services:

- UI2
- ui5_ui5

Activate the above services (either via right-click of the mouse, *Activate Service* or in the menu under **▶ Service/host → Activate** ⚡)

- **▶ default_host → SAP → bc → webdynpro → sap** ⚡:

- HRPAA0_PAOM_MASTERDATA

Activate the above services (either via right-click of the mouse, *Activate Service* or in the menu under **▶ Service/host → Activate** ⚡)

3.1.5 Assigning the RFC Destination to Role SAP_PAO_HRPROFESSIONAL_2

To access the landing page, you assign the RFC destination for the Web Dispatcher system as a target system to the customer-specific copy of the role SAP_PAO_HRPROFESSIONAL_2. This process describes how you create the RFC destination, and how to assign it to the role.

Procedure

Create RFC Destination

1. In your ABAP back-end system, call up transaction SM59.
2. Expand *HTTP Connection to External Server* and choose ► *Edit* → *Create* ◀.
3. Enter the data as described in the following table and choose *Save*.

Field	Data to be Entered
<i>RFC Destination</i>	RFC Destination Name for the Web Dispatcher system
<i>Description 1</i>	Meaningful Description
<i>Target Host</i>	Web Dispatcher Input Port

Assign RFC Destination

1. In transaction PFCG, call up the customer-specific copy of the role SAP_PA0_HRPROFESSIONAL_2 in edit mode.
2. Choose *HCM Landing Page* and open the tab *Other Node Details*.
3. In the field *Target System*, enter the RFC destination for the Web Dispatcher System.

Alternative Process

1. In transaction PFCG, call up the customer-specific copy of the role SAP_PA0_HRPROFESSIONAL_2 in edit mode.
2. Choose *HCM Landing Page* and right-click.
3. Choose *Details* and update the complete URL in the field *Web Address or File*.

More Information



NOTE

For product information on HR renewal 1.0, see ► http://help.sap.com/hr_renewal → *Application Help* ◀.

The product information for HR renewal 1.0 has links to:

- Application Help for HR renewal 1.0
- Roles for HR renewal 1.0
- Business functions for HR renewal 1.0
- Human Resources Security Guide

For release information, see ► <http://service.sap.com/releasenotes> → *SAP Solutions* → *SAP ERP Add-Ons* → *HR renewal 1.0* ◀

3.2 Advanced Claims Management (ESS)

To access the above feature, users in ESS require the following roles:

- SAP_HR_ADVCLM_EMPLOYEE_MY
- SAP_HR_ADVCLM_MANAGER_MY
- SAP_HR_ADVCLM_EMPLOYEE_IN

■ SAP_HR_ADVCLM_MANAGER_IN

For more information, see the business function documentation in HCM_LOC_CI_48 available in transaction SFW5.

4 Post Installation



NOTE

For product information on HR renewal 1.0, see ► http://help.sap.com/hr_renewal → *Application Help* ◀.

The product information for HR renewal 1.0 has links to:

- [Application Help for HR renewal 1.0](#)
- [Roles for HR renewal 1.0](#)
- [Business functions for HR renewal 1.0](#)
- [Human Resources Security Guide](#)

For release information, see ► <http://service.sap.com/releasesnotes> → *SAP Solutions* → *SAP ERP Add-Ons* → *HR renewal 1.0* ◀



NOTE

Solution Manager Content

To implement the process *Managing Employees and Organization*, select the template *HCM Renewal FP3* in the Project Administration transaction (`SOLAR_PROJECT_ADMIN`) on the Scope tab. In the Business Blueprint transaction (`SOLAR01`) the template is automatically inserted, and you can select any additional processes or scenarios that you want to implement.

Feature-Specific Post Installation Information

If your feature requires additional information or post-installation steps, it is listed in this section.

SAP ERP HCM Child Care Leave and Nursing Leave for Japan

Third party Adobe Document Service is required for printing for SAP ERP HCM Child Care Leave and Nursing Leave for Japan.

Business Function HCM, Administrative Services 05

If you activate this business function, apply the following notes:

- [1751099](#)
- [1750196](#)
- [1725438](#)
- [1765954](#)
- [1765954](#)
- [1749069](#)
- [1776631](#)

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

© Copyright 2013 SAP AG. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP AG. The information contained herein may be changed without prior notice.

Some software products marketed by SAP AG and its distributors contain proprietary software components of other software vendors.

Microsoft, Windows, Excel, Outlook, PowerPoint, Silverlight, and Visual Studio are registered trademarks of Microsoft Corporation.

IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, z10, z/VM, z/OS, OS/390, zEnterprise, PowerVM, Power Architecture, Power Systems, POWER7, POWER6+, POWER6, POWER, PowerHA, pureScale, PowerPC, BladeCenter, System Storage, Storwize, XIV, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, AIX, Intelligent Miner, WebSphere, Tivoli, Informix, and Smarter Planet are trademarks or registered trademarks of IBM Corporation.

Linux is the registered trademark of Linus Torvalds in the United States and other countries.

Adobe, the Adobe logo, Acrobat, PostScript, and Reader are trademarks or registered trademarks of Adobe Systems Incorporated in the United States and other countries.

Oracle and Java are registered trademarks of Oracle and its affiliates.

UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.

Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems Inc.

HTML, XML, XHTML, and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.

Apple, App Store, iBooks, iPad, iPhone, iPhoto, iPod, iTunes, Multi-Touch, Objective-C, Retina, Safari, Siri, and Xcode are trademarks or registered trademarks of Apple Inc.

IOS is a registered trademark of Cisco Systems Inc.

RIM, BlackBerry, BBM, BlackBerry Curve, BlackBerry Bold, BlackBerry Pearl, BlackBerry Torch, BlackBerry Storm, BlackBerry Storm2, BlackBerry PlayBook, and BlackBerry App World are trademarks or registered trademarks of Research In Motion Limited.

Google App Engine, Google Apps, Google Checkout, Google Data API, Google Maps, Google Mobile Ads, Google Mobile Updater, Google Mobile, Google Store, Google Sync, Google Updater, Google Voice, Google Mail, Gmail, YouTube, Dalvik and Android are trademarks or registered trademarks of Google Inc.

INTERMEC is a registered trademark of Intermec Technologies Corporation.

Wi-Fi is a registered trademark of Wi-Fi Alliance.

Bluetooth is a registered trademark of Bluetooth SIG Inc.

Motorola is a registered trademark of Motorola Trademark Holdings LLC.

Computop is a registered trademark of Computop Wirtschaftsinformatik GmbH.

SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork, SAP HANA, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP AG in Germany and other countries.

Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, WebIntelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company.

Sybase and Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere, and other Sybase products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Sybase Inc. Sybase is an SAP company.

Crossgate, m@gic EDDY, B2B 360°, and B2B 360° Services are registered trademarks of Crossgate AG in Germany and other countries. Crossgate is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP AG and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

Disclaimer

Some components of this product are based on Java™. Any code change in these components may cause unpredictable and severe malfunctions and is therefore expressly prohibited, as is any decompilation of these components.

Any Java™ Source Code delivered with this product is only to be used by SAP's Support Services and may not be modified or altered in any way.

Documentation in the SAP Service Marketplace

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

SAP AG

Dietmar-Hopp-Allee 16

69190 Walldorf

Germany

T +49/18 05/34 34 34

F +49/18 05/34 34 20

www.sap.com