



Upgrade Guide SAP® Access Control 10.0 to 10.1

Target Audience

- System Administrators
- Technology Consultants

PUBLIC

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Document History

The Upgrade Guide is regularly updated at <http://help.sap.com/grc>.

CAUTION

Make sure you have the latest version of the Upgrade Guide by checking it against the version available on *SAP Service Marketplace* before starting the upgrade.

Version	Date	Description
1.0	2013-06-04	Initial release
1.1	2013-08-20	Revised section <i>Configuring the SAP NetWeaver Gateway</i>
1.2	2013-11-01	Added reference to SAP Fiori to <i>Introduction</i>
1.3	2014-01-16	SAP NetWeaver version changed from SP02 to SP04

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1 Getting Started

This guide is intended for customers who currently use SAP Access Control 10.0 and wish to upgrade to SAP Access Control 10.1.

The following sections provide more information about this guide.

1.1 About this Document

Purpose

This guide describes how to upgrade SAP Access Control 10.0 to SAP Access Control 10.1. The document provides the following information.

- An overview of the type of data required for the upgrade
- Prerequisite information for configuring upgrade requirements for the SAP Access Control 10.1 environment
- Steps to verify data and perform post-upgrade tasks

Constraints

This Upgrade Guide is a standalone document; it has the following list of constraints.

- This guide discusses the upgrade process of the SAP Access Control 10.0 application to SAP Access Control 10.1. Any attempt to use this guide for other product versions is not supported

This guide **does not** provide information for the following uses:

- Installing SAP Access Control 10.1
 - For more information about installation, see the *SAP Access Control / SAP Process Control / SAP Risk Management 10.1 Installation Guide* at ► <https://help.sap.com/grc-ac> → *Installation and Migration Information*. ◀
- Upgrading of SAP Access Control 5.3 to SAP Access Control 10.1

1.2 SAP Notes for Upgrade

Review the following notes before you perform the upgrade.

Note Number	Note Description
1855332	Release Strategy for SAP Access Control 10.1
1814403	WDA: Syntax Error When Activating a Web Dynpro Component.

Note Number	Note Description
It is mandatory to apply this note after installing NW 7.40 SP04 to make sure the NetWeaver Business Client is working properly.	
1843523	Upgrading to SAP GRC Shared Components 10.1
1855403	GRCFND_A V1100 Installation and Upgrade
1855404	GRCPINW V1100 Installation and Upgrade
1855405	Information about installing the ERP Plug-In

1.3 SAP Fiori Apps

For more information regarding SAP Fiori apps, see SAP Fiori for SAP Access Control 10.1 <http://help.sap.com/grc-ac>.

2 Introduction

This guide discusses how to convert the existing SAP Access Control 10.0 application to SAP Access Control 10.1. The upgrade process involves the conversion of the data types listed below.

2.1 Configuration Data

Configuration data includes the configuration parameters that you specify within Customizing (IMG transaction SPRO). The following new Customizing activities are available as of SAP Access Control 10.1:

Activity Description	IMG Path
Maintain settings for Simplified Access Request processing	► Governance, Risk, and Compliance → Access Control → User Provisioning → Simplified Access Request → Maintain Display Sections ◀
Maintain settings for Simplified Access Request processing	► Governance, Risk, and Compliance → Access Control → User Provisioning → Simplified Access Request → Maintain Field Labels ◀
Maintain settings for Simplified Access Request processing	► Governance, Risk, and Compliance → Access Control → User Provisioning → Simplified Access Request → Maintain Request Page ◀
Maintain settings for Simplified Access Request processing	► Governance, Risk, and Compliance → Access Control → User Provisioning → Simplified Access Request → Maintain Request Reasons ◀
Disable Link Functionality in Attachments and Link	► Governance, Risk, and Compliance → General Settings → Disable Link Functionality in Attachments and Links ◀
Configure Side Panel for My Process	► Governance, Risk, and Compliance → General Settings → UI Settings → Configure Side Panel for My Process ◀
Define Audit Groups	► Governance, Risk, and Compliance → Common Component Settings → Internal Audit Management → Define Audit Groups ◀
Maintain Firefighter ID Role Name Per Connector	► Governance, Risk, and Compliance → Access Control → Emergency Access Management → Maintain Firefighter ID Role Name Per Connector ◀
Additional Rule Upload	► Governance, Risk, and Compliance → Access Control → Access Risk Analysis → SoD Rules → Additional Rule Upload ◀
Additional Rules Download	► Governance, Risk, and Compliance → Access Control → Access Risk Analysis → SoD Rules → Additional Rules Download ◀
Organization Rule Creation Wizard	► Governance, Risk, and Compliance → Access Control → Access Risk Analysis → SoD Rules → Organization Rule Creation Wizard ◀

Configure Attributes for Role Search Criteria in Access Requests	► Governance, Risk, and Compliance → Access Control → User Provisioning → Configure Attributes for Role Search Criteria in Access Requests ◀
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More Information

- For more information about configuration, see the *Maintain Configuration Settings Guide for SAP Access Control* at ► <https://service.sap.com/instguides> → Analytics → Governance, Risk, and Compliance → Access Control ◀.
- For more information about each IMG activity, see the IMG documentation that accompanies each IMG activity.

2.2 Master Data - BC Sets

The BC Sets below are new to SAP Access Control 10.1 and must be activated as part of the SAP Access Control 10.0 to 10.1 upgrade.

BC Set Name	Description
GRAC_DT_REQUEST_DISPLAY_SECTIONS	Simplified Access Request Display Sections
GRAC_DT_REQUEST_FIELD_LABELS	Simplified Access Request Field Labels
GRAC_DT_REQUEST_PAGE_SETTINGS	Simplified Access Request Page Settings
GRAC_ROLE_SEARCH_CONFIGURATION	Role Search Configuration for Access Request
GRAC_ACCESS_REQUEST_PRIORITY	Request Priority

For more information about activating BC sets, see the *SAP Access Control*, *SAP Process Control*, and *SAP Risk Management 10.1 Installation Guide* at ► <https://service.sap.com/instguides> → Analytics → Governance, Risk, and Compliance → Access Control ◀.

2.3 Transactional Data

Transactional data are transaction-based records related to the audit trail, workflow items, and so on. If any changes are necessary for transactional data, the system handles them automatically using XPRA during the SAP Access Control 10.1 deployment.

More Information

For more information about data conversion, see the SAP Help Portal at http://help.sap.com/saphelp_bpc70sp02/helpdata/en/84/29b0127a6011d3b505006094192fe3/frameset.htm.

3 Prerequisites

Before you can begin the upgrade process, you must ensure that the SAP NetWeaver version is NW7.40 SP04.

More Information

For more information about SAP NetWeaver, see the SAP Help Portal at ► <http://help.sap.com/netweaver> ◀

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4 Verification of Upgraded Data

To verify your data after the upgrade, we recommend that you perform the following list of tasks:

- View the Upgrade Logs
You can check the upgrade logs to verify that the programs ran successfully.
- Use the SAP Access Control 10.0 and 10.1 user interfaces to verify that data integrity is maintained after the upgrade.

More Information

For more information about system logs, see the SAP Help Portal at ► http://help.sap.com/saphelp_bpc70sp02/helpdata/en/1f/83119f4bc511d189750000e8322d00/frameset.htm ◀.

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5 System Upgrade

Upgrading from SAP Access Control 10.0 to SAP Access Control 10.1 is a same-box upgrade process. To perform a system upgrade, complete the following steps.

Procedure

1. Close all open workflow instances and all open survey instances.
2. Back up the AC 10.0 system.
3. If used, delete all Datamart data.
4. Upgrade the SAP Access Control system from SAP NetWeaver 7.02 to SAP NetWeaver 7.40 SP04.



CAUTION

It is mandatory to apply SAP Note [1814403](#) after installing SAP NetWeaver 7.40 SP04 to ensure that the NetWeaver Business Client (NWBC) is working properly.

5. Upgrade the SAP NetWeaver Portal 7.0 EHP1 to SAP NetWeaver Portal 7.0 EHP 2 SP06.
6. Install the GRC 10.1 component GRCFND_A_V1100 and the latest SAP Access Control support packages.



NOTE

For more information, see the *SAP Access Control , SAP Process Control , and SAP Risk Management 10.1 Installation Guide* at ► <https://help.sap.com/grc-ac> → *Installation and Migration Information*. ◀

7. Back up the system again.
8. Upload the BC sets for new features and new roles (optional for Risk Management 10.1).
9. Perform configuration for new and optional SAP Access Control 10.1 features.
10. If it is used, refill the Datamart.
11. Deploy the GRC 10.1 Portal package GRC_POR (if applicable).
12. Assign GRC users the portal roles *GRC Suite* and *ERP Common*.



NOTE

Alternatively, you can use the SAP NetWeaver Business Client (NWBC 4.0) instead of the SAP NetWeaver Portal package.

For more information, see the *SAP Access Control , SAP Process Control , and SAP Risk Management 10.1 Installation Guide* at ► <https://help.sap.com/grc-ac> → *Installation and Migration Information* ◀.

13. If applicable, deploy the GRC10.0 Plug-in (RTA) package for SAP Access Control 10.1 in the ERP system.

See the following table for the GRC Plug-in packages for the different ERP/NW releases.

ERP	NetWeaver Release	GRC NW Plug-in	GRC ERP Plug-in
ERP 2005	NW 731	GRCPINW V1100-731	GRCPERP V1100_700
ERP 2005	NW 710	GRCPINW V1100-710	GRCPERP V1100_700
ERP 2005	NW 700	GRCPINW V1100-700	GRCPERP V1100_700



NOTE

For more information about backwards compatible plug-ins, see SAP Note [1821368](#) *Inst/Upgrade GRCFND_A V1100 on NW740*.

14. Use transaction SICF to activate NWBC and Web Dynpro services beginning with the *grpc* and *grfn*, at */default host/sap/bc/nwbc*, */sap/public/*, */sap/bc*.
15. If you want to use SAP Risk Management (RM) and SAP Process Control (PC), you may need to activate the RM and PC services as well.
 - For more information, see the *SAP Access Control 10.1*, *Process Control 10.1*, and *Risk Management 10.1 Installation Guide* at ► <https://help.sap.com/grc-ac> → *Installation and Migration Information*. ◀

More Information

For more information, see the *SAP Access Control*, *SAP Process Control*, and *SAP Risk Management 10.1 Installation Guide* at ► <https://help.sap.com/grc-ac> → *Installation and Migration Information*. ◀.

6 Post Upgrade Tasks

After completing the upgrade, you must perform the following list of post-upgrade tasks:

- Adjust the SAP NetWeaver Portal system aliases (optional, if used)
- Add NWBC role to users
- Adjust the PFCG model roles
- Activate new Business Configuration (BC) sets
- Adjust the customer menu link (if you use the customer menu item link)
- Resubmit open workflow items

6.1 Adjust Portal System Aliases

For SAP Access Control system aliases, use aliases **SAP-GRC** (foundation application) and **SAP-GRC-AC**.

6.2 Add NWBC Role to Users

If you want to launch SAP NetWeaver Business Client (NWBC) using SAP GUI, you need to assign users the role **SAP_GRC_NWBC** using transaction **SU01**.

6.3 Adjusting PFCG Model Roles

Ensure that all SAP Access Control 10.1 custom model roles contain the authority of display regulation. To do so, follow the procedure below:

Procedure

1. Log on to the ABAP server for SAP Access Control 10.1.
2. Enter the transaction **PFCG**.
The *Role Maintenance* screen appears.
3. In the *Role* field, enter the role ID of a custom model role. Click *Change*.
The *Change Role* screen appears.
4. Click the *Authorizations* tab.
5. Click *Change Authorization Data* and then click **Enter**.
The *Change Role: Authorizations* screen appears.
6. Click *Manual Entry of Authorization Objects*.

6.4 Activate the Business Configuration (BC) Sets

The dialog box *Manual selection of authorizations* appears.

7. Enter the Authorization Object `GRFN_API` and click **Enter**.
8. Expand the hierarchy for *Governance, Risk, and Compliance*.
9. Expand the hierarchy for *Authorization for access via GRC APIs*.
10. Enter the following values in the first node of the expanded hierarchy:
 - Activity: **03** (display)
 - Data Part for GRC Object Types: * (asterisk)
 - Authorization Entity
: **REGULATION, REG_GROUP, REG_REQ**
 - Subentity: * (asterisk)
11. Click **Save**.
12. Click **Generate** to update the authority profile of the role.

6.4 Activate the Business Configuration (BC) Sets

For information about Business Configuration Sets, see the *SAP Access Control*, *SAP Process Control*, and *SAP Risk Management 10.1 Installation Guide* at ► <https://help.sap.com/grc-ac> → *Installation and Migration Information* ◀.

6.5 Configuring the SAP NetWeaver Gateway

In order to use some of the new functionality in SAP Access Control 10.1, such as the *Remediation View* in SAP Access Risk Analysis, an SAP NetWeaver Gateway connection must be established. Follow these steps to maintain or verify the connector.

Procedure

1. Logon to an SAP NetWeaver system and access the SAP Reference IMG as follows: from the SAP Easy Access menu, choose ► *Tools* → *Customizing* → *IMG* → *Execute Project* (transaction *SPRO*) ◀.
2. Choose ► *SAP Reference IMG* → *SAP Net Weaver* → *Gateway* → *OData Channel* → *Configuration* → *Connection Settings* → *SAP Net Weaver Gateway to SAP System* ◀.
3. Choose *Manage RFC Destinations* and create an RFC (communication) destination that points to the system itself.



CAUTION

Be sure to specify the proper RFC Type, client, and user information using the naming convention:

<**System SID**>CLNT<**Client Number**>; for example, **GD1CLNT200**.

4. If you are using Single-Signon, choose *Define Trust for SAP Business Systems*. Complete the fields with information you provided in the Step 3.

6.6 Adjust the Customer Menu Links

**NOTE**

This step *only* applies if you are using Single-Signon.

5. Choose *Manage SAP System Aliases* to create the system alias for the RFC destination that you created in Step 3.
6. Choose *New Entries* and enter the following values:

Field Name	What You Enter
SAP System Alias	Enter the name of the RFC destination that you created in Step 3.
Description	Enter a description that is meaningful to your installation.
RFC Destination	Enter the name of the RFC destination that you created in Step 3.
Software Version	Choose the value DEFAULT from the drop down list.

7. *Save* your entries.
8. If required, choose *Activate or Deactivate SAP NetWeaver Gateway* to activate the SAP NetWeaver Gateway Services.
9. Choose ► *SAP NetWeaver* → *Gateway* → *OData Channel* → *Administration* → *General Settings* ⚙.
10. Choose *Activate and Maintain Services*. The system displays a list of all the services that have been created in the backend system.
11. Click to select the *Technical Service* **GRAC_GW_VIOLSUMM_REM_SRV**.
12. In the *System Aliases* section (bottom right-hand corner), click *Add System Alias*.
13. Enter **GRAC_GW_VIOLSUMM_REM_SRV_0001** as the *Service Doc. Identifier*.
14. For the *SAP System Alias*, enter the system alias name that you created in Step 6.
15. Click the check box for *Default System*.
16. *Save* your entries.
17. On the *Activate and Maintain Services* screen, in the *ICF Node* section (bottom left-hand corner), verify that the traffic light in front of the *ICF Node* is green. If it is not, click the *ICF Node* field and select *Activate* from the *ICF Node* dropdown menu.
18. If required, *Save* your settings.
19. On the *Activate and Maintain Services* screen, repeat steps 11 through 18 for the following services:

Technical Service Name	External Service Name	Service Doc Identifier
/IWFND/SG_MED_CATALOG	CATALOGSERVICE	/IWFND/SG_MED_CATALOG_0001
/IWFND/SG_USER_SERVICE	USERSERVICE	/IWFND/SG_USER_SERVICE_000

More Information

For more information, see the SAP Help portal at <http://help.sap.com> and search for: *SAP NetWeaver Gateway Developer Guide*. Then choose ► *OData Channel* → *Basic Features* → *Service Life-Cycle* → *Activate and Maintain Services* ⚙.

6.6 Adjust the Customer Menu Links

If you have any custom menus, make the necessary adjustments.

More Information

For more information about custom menus, see the SAP Help Portal at http://help.sap.com/saphelp_bpc75/helpdata/en/3b/b5df48130f44fb8e9537701f09c960/frameset.htm.

6.7 Resubmit Open Workflow Items

If you had any open workflow items before the upgrade, make sure that you restart any items that were not completed.

More Information

For more information about workflow administration, see the SAP Help Portal at http://help.sap.com/saphelp_banking463/helpdata/en/fb/135a0e457311d189440000e829fbbd/frameset.htm.

7 Changes to Functional Roles

The following functional roles have been modified for SAP Access Control 10.1:

Role Name	Role Title
SAP_GRAC_SUPER_USER_MGMT_ADMIN	Super User Administrator Role
SAP_GRAC_SUPER_USER_MGMT_USER	Super User Firefighter



NOTE

If you copy these roles, you must modify them according to your business needs.

More Information

For more information and to see the additional authorization objects added to existing roles, see the *Security Guide for SAP Access Control 10.1 / Process Control 10.1 / Risk Management 10.1* at ► <https://help.sap.com/grc> → choose your application → Security Information → Security Guide. ◀

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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

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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:

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- 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
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>

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