

# SAP Forecasting and Replenishment: Security Guide



**Release SCM 410**



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## Icons in Body Text

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Additional icons are used in SAP Library documentation to help you identify different types of information at a glance. For more information, see *Help on Help → General Information Classes and Information Classes for Business Information Warehouse* on the first page of any version of *SAP Library*.

## Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters quoted from the screen. These include field names, screen titles, pushbuttons labels, menu names, menu paths, and menu options.  Cross-references to other documentation.
<b>Example text</b>	Emphasized words or phrases in body text, graphic titles, and table titles.
EXAMPLE TEXT	Technical names of system objects. These include report names, program names, transaction codes, table names, and key concepts of a programming language when they are surrounded by body text, for example, SELECT and INCLUDE.
Example text	Output on the screen. This includes file and directory names and their paths, messages, names of variables and parameters, source text, and names of installation, upgrade and database tools.
<b>Example text</b>	Exact user entry. These are words or characters that you enter in the system exactly as they appear in the documentation.
<Example text>	Variable user entry. Angle brackets indicate that you replace these words and characters with appropriate entries to make entries in the system.
EXAMPLE TEXT	Keys on the keyboard, for example, F2 or ENTER.

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# SAP Forecasting and Replenishment: Security Guide



## Introduction



This guide does not replace the daily operations handbook that we recommend customers to create for their specific productive operations.

### About this Guide

This scenario security guide provides security-relevant information for the SAP SCM 4.1 Scenario – SAP Forecasting and Replenishment.

The scenario is based on the following SAP application components:

- SAP SCM 4.1
  - SAP F&R 4.1
- SAP R/3 from Release 4.6C
- SAP R/3 Plug In from Release 2004\_1\_46C
- SAP BW from Release 3.5



**The SAP SCM 4.1 Component Security Guide is an inherent part of this security guide.** Many security relevant details are described only in the underlying Component Security Guide.

In many cases the required information has already been provided in other security guides and in configuration and installation guides. In these cases the guide provides a reference to the relevant units.

The following table provides an overview of all relevant security guides for this scenario.

(All security guides are available at: <http://service.sap.com/securityguide>)

#### Related Security Guides

Product	See
Component SAP SCM 4.1	SAP SCM 4.1 Component Security Guide
<b>Operating System and Database Platforms</b>	
Operating System and Database Platforms	Operating System and Database Platform Security Guides
<b>Application Platform</b>	
SAP Web Application Server	SAP Web AS Security Guide for ABAP Technology SAP Web AS Security Guide for J2EE Technology Internet Transaction Server Security Security Aspects in Development
SAP Content Server	SAP Content Server Security Guide

SAP Knowledge Warehouse	SAP Knowledge Warehouse Security Guide
<b>People Integration</b>	
SAP Enterprise Portal	SAP Enterprise Portal Security Guide
SAP Mobile Infrastructure	SAP Mobile Infrastructure Security Guide
<b>Information Integration</b>	
SAP Business Information Warehouse Security Guide	SAP Business Information Warehouse Security Guide
SAP Knowledge Management	SAP Knowledge Management Security Guide SAP Content Management Security Guide SAP TRex Security Guide
<b>Process Integration</b>	
SAP Exchange Infrastructure	SAP Exchange Infrastructure Security Guide
<b>Solution Life-Cycle Management</b>	
System Management	Security Aspects with System Management



The security guides listed can be found in the SAP Help Portal at [help.sap.com](http://help.sap.com) → *SAP NetWeaver* → *Release '04* → *SAP NetWeaver* → *Security* → *SAP NetWeaver Security Guide*.

To shorten the links to relegated documentation, the following table provides "symbolic links" used in this security guide.

#### Security-Relevant Information:

Guide/Documentation	Full Path to Guide/Documentation
"SAP NetWeaver Security Guide"	<a href="http://help.sap.com">http://help.sap.com</a> → <i>Documentation</i> → <i>SAP NetWeaver</i> → <i>SAP NetWeaver 04 (left frame) / English or German (right frame)</i> → <i>SAP Library</i> → <i>SAP NetWeaver</i> → <i>Security</i> → <i>SAP NetWeaver Security Guide</i>
"SAP NetWeaver Documentation"	<a href="http://help.sap.com">http://help.sap.com</a> → <i>Documentation</i> → <i>SAP NetWeaver</i> → <i>SAP NetWeaver 04 (left frame) / English or German (right frame)</i> → <i>SAP Library</i> → <i>SAP NetWeaver</i>
"SAP SCM Documentation"	<a href="http://help.sap.com">http://help.sap.com</a> → <i>Documentation</i> → <i>mySAP Business Suite</i> → <i>mySAP Supply Chain Management</i> → <i>SAP Supply Chain Management</i> → <i>SAP Library</i> → <i>SAP Supply Chain Management (SAP SCM)</i>
"SAP SCM Installation Guide"	<a href="http://service.sap.com/instguides">http://service.sap.com/instguides</a> → <i>mySAP Business Suite Solutions</i> → <i>mySAP SCM</i> → <i>Using SAP SCM &lt;your version&gt;</i>
"SAP SCM Component Security Guide"	<a href="http://service.sap.com/securityguide">http://service.sap.com/securityguide</a> → <i>SAP Supply Chain Management</i>
"SAP SCM Scenario Forecast & Replenishment - Configuration Guide"	<a href="http://service.sap.com/ibc">http://service.sap.com/ibc</a> → <i>Industry Solutions</i> → <i>SAP for Retail</i> → <i>Forecast &amp; Replenishment</i> → <i>Business Scenario</i>

*Configuration Guide → Forecasting & Replenishment: Configuration Guide*

## Why Is Security Necessary?

With the increasing use of distributed systems and the Internet for managing business data, the demands on security are also on the rise. When using a distributed system, you need to be sure that your data and processes support your business needs without allowing unauthorized access to critical information. User errors, negligence, or attempted manipulation on your system should not result in loss of information or processing time. These demands on security apply likewise to the SAP SCM 4.1 Scenario SAP Forecasting and Replenishment. To assist you in securing your SAP SCM 4.1 scenario, we provide this SAP SCM 4.1 Scenario Security Guide.



We strongly recommend consulting the SAP SCM 4.1 Component Security Guide and the SAP NetWeaver Security Guide in addition!

## Target Groups

- Technical consultants
- System administrators

This document is not included as part of the Installation Guides, Configuration Guides, Technical Operation Manuals, or Upgrade Guides. Such guides are only relevant for a certain phase of the software life cycle, whereby the Security Guides provide information that is relevant for all time frames.

## Important SAP Notes



Check regularly which SAP Notes about the security of the application are available.

### Important SAP Notes

SAP Note Number	Title	Comment
700659	Security Guide: mySAP Supply Chain Management	Problems discovered after publication of the security guide and additional information concerning security issues.
799899	SUI profile for SUI user	No default profile defined for new SUI user created with the UME.



For more information about this topic, see the underlying *SAP SCM Component Security Guide → Important SAP Notes*.



## Technical System Landscape

The following table lists where you can find more information about the technical system landscape.

### More Information about the Technical System Landscape

Topic	Guide/Tool	Quick Link to the SAP Service Marketplace (service.sap.com)
Technical System Landscape	SAP for SCM Master Guide	instguides ibc
Technical System Landscape & Installation	SCM Installation Guide(s) SAP R/3 and SAP R/3 Enterprise Installation Guide(s)	instguides
Technical configuration, High availability	Technical Infrastructure Guide	ti
Security		security





## User Administration and Authentication

This section contains information about user administration and authentication in a SAP system landscape.

This involves, for example:

- Management of users
- Synchronization of user data



## User Management

### User Management Tools

For more information about user management tools, see *User Management* in the SAP SCM 4.1 Component Security Guide.

#### User

System	User	Delivered?	Type	Default Password	Detailed Description
SAP R/3	<RFC user name> User for the RFC destination SAP R/3 to SAP SCM	No	Communication User	To be entered	SAP Forecasting & Replenishment-Configuration Guide → Preparation for Forecasting and Replenishment → Preparation in SAP R/3 → Maintain System Connection → Define Target Systems for RFC Calls
SAP SCM	<RFC user name> User for the RFC destination SAP SCM to SAP R/3	No	Communication user	To be entered	SAP Forecasting & Replenishment-Configuration Guide → Preparation for Forecasting and Replenishment → Preparation in SAP SCM → Maintain System Connection → Set Up RFC Destination
SAP	Replenishment	No	Dialog user	To be	SAP

<p>Forecasting &amp; Replenishment</p>	<p>Workbench for Stores (RWBS)</p> <ul style="list-style-type: none"> <li>• Store manager</li> <li>• Replenishment planner</li> </ul>			<p>entered</p> <p><i>Forecasting &amp; Replenishment-Configuration Guide → Settings for the Replenishment Workbench for Stores (RWBS) → Defining User Responsibilities (Backend)</i></p> <p><b>and</b></p> <p><i>SAP Forecasting &amp; Replenishment-Configuration Guide → Settings for the Replenishment Workbench for Stores (RWBS) → SAP User Management Engine (UME)</i></p> <p><b>and</b></p> <p><i>SAP Forecasting &amp; Replenishment-Configuration Guide → Settings for the Replenishment Workbench for Stores (RWBS) → Responsibility Management</i></p> <p><b>and</b></p>
--	---	--	--	---

					This guide in chapter: <i>Authorizations</i> → <i>Creating Authorizations for SAP F&amp;R Store User Interface (SUI)</i>
SAP J2EE Engine	J2EE_ADMIN	No	Dialog user	To be entered	<i>SAP Forecasting and Replenishment: Store User Interface - Installation Guide</i> → <i>Installation Process</i> → <i>Prepare the Backend</i>
SAP Forecasting & Replenishment	Communication User for JCo Connection WD_SUI_MODELDATA_DEST	No	Communication user	To be entered	<i>SAP Forecasting and Replenishment: Store User Interface - Installation Guide</i> → <i>Installation Process</i> → <i>Create the JCO Connections</i>



For information about user types, see *SAP NetWeaver Security Guide* → *User Administration and Authentication* → *User Management* → *User Types*.

For information about SAP NetWeaver Standard Users, see *SAP NetWeaver Security Guide* → *SAP WebAS Security Guide for ABAP Technology* → *User Authentication* → *Protecting Standard Users*.

For information about SAP NetWeaver password rules, see the *SAP NetWeaver* documentation, under *Security* → *Identity Management* → *Users and Roles (BC-SEC-USR)* → *User Maintenance* → *Logon and Password Security in the SAP System* → *Password Rules*.



## User Data Synchronization

For more information about user data synchronization, see the SAP SCM 4.1 Component Security Guide → *User Data Synchronization*.



## **Integration into Single Sign-On Environments**

For more information, see the SAP SCM 4.1 Component Security Guide → *Integration into Single Sign-On Environments*.



## Authorizations

### Define Maintainable Attributes

In the IMG, choose *mySAP SCM - Implementation Guide* → *Forecasting and Replenishment* → *Master Data* → *Define Maintainable Attributes*. In this IMG activity for SAP Forecasting and Replenishment (SAP F&R), you define the maintainable fields.

#### Activities

Define maintenance control in SAP F&R. You can select whether fields may be changed:

- Using interfaces only
- From dialog boxes only
- From processes only
- From dialogs and processes

Whatever you select, fields can be created using interfaces. If fields are defined as being maintainable in F&R dialog boxes, they can be entered in the relevant F&R mass maintenance.



For information about Assign Planning Responsibilities, see the *SAP Forecasting & Replenishment - Configuration Guide* at *Preconditions in SCM for F&R* → *Customizing Settings in SCM for F&R* → *Master Data* → *Define Maintainable Attributes*.

### Assign Planning Responsibilities

In the IMG, choose *mySAP SCM - Implementation Guide* → *Forecasting and Replenishment* → *Master Data* → *Assign Planning Responsibilities*.

To assign replenishment planner of F&R as purchasing planner, you have to maintain each application for which each planner is responsible with the following activities:

1. Choose New Entries.
2. Enter an identifier and description for each planner.
3. Select each area for which you want the planner to have privileges.
4. Choose Save.



For more information, see the *SAP Forecasting & Replenishment - Configuration Guide* at *Preconditions in SCM for F&R* → *Customizing Settings in SCM for F&R* → *Master Data* → *Assign Planning Responsibilities*.

### Convert External RP Planner to Forecasting and Replenishment RP Planner

In the IMG, choose *mySAP SCM - Implementation Guide* → *Forecasting and Replenishment* → *Master Data* → *Convert External RP Planner to Forecasting and Replenishment RP Planner*.

Conversion between the external RP planner and the F&R RP planner is executed automatically in the F&R inbound process, provided that the conversion specified in Customizing definitions on the client level (see F&R master data IMG activity) and the planner conversion flag is set.

Perform the following action:

Define the conversion of the external RP planner to the F&R RP planner.

### Assign Replenishment Planner to products

On the *SAP Easy Access* screen, choose *Forecasting and Replenishment* → *Master Data* → *Product* → *Maintain Location Products* (transaction /FRE/MASS\_MATLOC).



For more information, see the *SAP Forecasting & Replenishment - Configuration Guide* at *Preconditions in SCM for F&R* → *Preconditions in SCM for F&R* → *Master Data* → *Assign Replenishment Planner to products*.

### Exception Subscription

On the *SAP Easy Access* screen, choose *Forecasting and Replenishment* → *Order Proposal Management* → *Replenishment Workbench* (transaction /FRE/RWB. Choose *Exception Subscription* and select items of unselected Business Areas. Choose *Move Left* and *Continue*.

The subscription can be done directly within the workbench by choosing *Exception Subscription*.



For more information, see *Forecasting & Replenishment - Configuration Guide* → *Preconditions in SCM for F&R* → *Preconditions in SCM for F&R* → *(Manual) Replenishment Workbench* → *Exception Subscription*.

### Authorization Concept for Replenishment Workbench for Stores (RWBS)

Authorizations for the Replenishment Workbench for Stores (RWBS) are controlled by a two-level approach:

- ABAP authorization objects and roles
- Control access lists

### Creating Backend Authorizations for Replenishment Workbench for Stores (RWBS)

To use the SAP Forecasting and Replenishment (F&R) Store User Interface (SUI), you need a user in your SAP SCM F&R system with an authorization role containing only the following authorizations (do not use any other authorizations):

- S\_RFC: Authorization Check for RFC Access
- C\_LIME\_SI: LIME Stock Item
- C\_LIME\_LOC: LIME Location



For more information, see

- *SAP Forecasting & Replenishment - Configuration Guide* → *Settings for the Replenishment Workbench for Stores (RWBS)* → *Defining User Responsibilities (Backend)*
- *SAP Scenario Forecasting & Replenishment- Configuration Guide* → *Settings for the Replenishment Workbench for Stores (RWBS)* → *SAP User Management Engine (UME)*

For information about role maintenance and the SAP Profile Generator, see the *SAP Help Portal* at [help.sap.com](http://help.sap.com) → *Documentation* → *SAP Netweaver* →



*Security → Identity Management → Users and Roles (BC-SEC-USR) → SAP Authorization Concept → Organizing Authorization Administration → Organization If You Are Using the Profile Generator → Role Maintenance.*

## **Responsibility Management - Access Control Lists**

The assignment of business-related authorizations for the Replenishment Workbench for Stores (RWBS) is done by access control lists in the application. This allows decentral authorization management attendant to the business concept of RWBS.



For detailed information about the authorization concept of the Replenishment Workbench for Stores (RWBS), see the *SAP Forecasting & Replenishment-Configuration Guide* at *Settings for the Replenishment Workbench for Stores (RWBS) → Responsibility Management*.

## **Further Authorizations**

For more information about this topic, see the underlying *SAP SCM Component Security Guide → Authorizations*.



## Network and Communication Security

This section contains information about network and communication security in an SAP system landscape.

This involves, for example:

- Communication channel security
- Network security
- Communication destinations



## Communication Channel Security

As communication channels transfer all kinds of business data, they should be protected against unauthorized access. SAP offers general recommendations and technologies to protect your system landscape based on SAP NetWeaver.



To achieve a secure system landscape, you should activate the Secure Network Communication (SNC) for RFC and Secure Sockets Layer Protocol (SSL) for http within all communication channels in the GDS business scenario.



For information about Communication Channel Security within the integration SAP APO and SAP R/3, see *SAP SCM Component Security Guide* → *Communication Channel Security* → *SAP APO - SAP R/3*.

For information about the communication security of SAP NetWeaver, see the SAP Service Marketplace at [service.sap.com/securityguide](http://service.sap.com/securityguide) → SAP NetWeaver Security Guide → Network and Communication Security.

For information about security aspects for connectivity and interoperability of SAP NetWeaver, see the SAP Service Marketplace at [service.sap.com/securityguide](http://service.sap.com/securityguide) → SAP NetWeaver Security Guide → Security Aspects for Connectivity and Interoperability.

The table below shows the communication paths used by the business scenario, the protocol used for the connection, and the type of data transferred.

### Communication Paths

Communication Path	Protocol Used	Type of Data Transferred	Data Requiring Special Protection
Front-end client using SAP GUI for Windows to application server	DIAG	All application data	For example, passwords, business data
Front-end client using a Web browser to application server	HTTP(S)	All application data	For example, passwords, business data
Application server to application server	RFC, HTTP(S)	Integration data	Business data
Application server to third-party application	HTTP(S)	All application data	For example, passwords, business data

DIAG and RFC connections can be protected using Secure Network Communications (SNC). HTTP connections are protected using the Secure Sockets Layer (SSL) protocol.

For more information, see the SAP Service Marketplace at [service.sap.com/securityguide](http://service.sap.com/securityguide) → *SAP NetWeaver Security Guide* → *Transport Layer Security*.

 **Network Security**

For more information about network security, see the *SAP SCM 4.1 Component Security Guide* → *Network Security*.



## Communication Destinations



Users and authorizations for connection destinations can cause high security flaws if used carelessly.

Golden Rules for connection users and authorizations:

- Choose user type "communication" or "system".
- Assign only the minimum required authorizations to the user.
- Choose a secure and secret password for the user!
- Store only connection user logon data for users of type "system".
- Choose "trusted system" functionality when ever possible instead of storing connection user logon data.

### Connection Destinations

Destination	Delivered?	Type	User, Authorizations	Description
<SAP SCM name>CLNT<client> SAP R/3 → SAP SCM	No	RFC - R/3	<RFC user name>  Use the profile generator (transaction <b>PFCCG</b> ) to define an appropriate profile.	<i>SAP Forecasting &amp; Replenishment-Configuration Guide → Preparation for Forecasting and Replenishment → Preparation in SAP R/3 → Guarantee System Connection → Define Target Systems for RFC Calls</i>  <b>and</b> <i>SAP Forecasting &amp; Replenishment-Configuration Guide → Business Customizing in SAP R/3 for F&amp;R → Integration with Other SAP Components → Maintain Basic Settings for Data Transfer</i>
<SAP R/3 System name>CLNT<client> SAP SCM → SAP R/3	No	RFC - R/3	<RFC user name>  Use the profile generator (transaction <b>PFCCG</b> ) to define an appropriate profile.  See SAP Note: 447543,	<i>SAP Forecasting &amp; Replenishment-Configuration Guide → Preparation for Forecasting and Replenishment → Preparation in SAP SCM → Maintain System Connection</i>

			<i>352844 and 353197</i>	
WD_SUI_MODELDATA_DEST SAP J2EE Engine → SAP F&R Backend (DDIC lookup)	No	JCo	<RFC user name>	<i>SAP Forecasting and Replenishment: Store User Interface - Installation Guide → Installation Process → Creation the JCO Connections</i>
WD_SUI_RFC_METADATA_DEST SAP J2EE Engine → SAP F&R Backend	No	JCo	Using ticketing → JCo works with the user logged on to SAP J2EE Engine	<i>SAP Forecasting and Replenishment: Store User Interface - Installation Guide → Installation Process → Creation the JCO Connections -&gt; JCo Connection for WD_SUI_RFC_METADATA_DEST</i> <b>and</b> <i>SAP Forecasting and Replenishment: Store User Interface - Installation Guide → Installation Process → Creation the JCO Connections → Using Tickets for Connection to Backend</i>
SAP SCM → FRP Server Group	No	-	-	<i>Forecasting &amp; Replenishment - Configuration Guide → Preparation for Forecasting and Replenishment → Preparation in SAP SCM → Maintain F&amp;R Processor Administration Settings</i>
SAP BW → SAP SCM	No	-	-	<i>Forecasting &amp; Replenishment- Configuration Guide → Settings in SAP BW → Creating Source Systems in SAP BW</i>



## Data Storage Security

SAP Forecasting and Replenishment works with the third party software Forecasting and Replenishment Processor (FRP). The data exchange between SAP F&R and the FRP is done via file down- and upload. The directory for the file down- and upload can be customized at customer side. Please be aware to protect the folder where exchange data file is located on your server against unauthorized access of a third party!



For information about the SAP Forecasting and Replenishment data exchange via file down- and upload, see *Forecasting & Replenishment - Configuration Guide* → *Preparation for Forecasting and Replenishment* → *Preparation in SAP SCM* → *Maintain Processor F&R Administration Settings*.

For further information about this topic, see the underlying *SAP SCM Component Security Guide* → *Data Storage Security*.



## Security for Additional Applications

SAP Forecasting and Replenishment includes third party software Forecasting and Replenishment Processor (FRP). To learn more about the security of this product, consult the FRP documentation.

For further information about this topic, see the underlying *SAP SCM Component Security Guide* → *Security for Additional Applications*.





## Other Security-Relevant Information

### Web Browser as User Front End

To use the Web browser as a user front end, you have to activate Java script (Active Scripting) to ensure a working user interface. This could conflict with your security policy regarding Web services.



## Appendix

### Related Security Guides

You can find more information about the security of SAP applications on the SAP Service Marketplace, Quick Link **security**. Security guides are available under the Quick Link **securityguide**.

### Related Information

For more information about topics related to security, see the following links:

#### Quick Links to Related Information

Content	Quick Link on the SAP Service Marketplace ( <a href="http://service.sap.com">service.sap.com</a> )
Master Guides, Installation Guides, Upgrade Guides, Solution Management Guides	<b>instguides</b> <b>ibc</b>
Related SAP Notes	<b>notes</b>
Released platforms	<b>platforms</b>
Network security	<b>network</b> <b>securityguide</b>
Technical infrastructure	<b>ti</b>
<i>SAP Solution Manager</i>	<b>solutionmanager</b>