



Installation Guide SAP SCM 7.0 Java Hubs Based on SAP NetWeaver 7.3 Application Server Java

Additional Post-installation Steps

Target Audience

- System Administrators
- Technical Consultants

PUBLIC

Document version: 1.0 – 2011-07-11

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	2011-07-11	Initial Version

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1 Introduction

You need this document when you install SAP SCM 7.0 Java Hubs based on SAP NetWeaver 7.3 Application Server Java. This document contains additional post-installation steps that you have to perform in addition to the installation procedure described in the documentation *Installation Guide — SAP Systems Based on SAP NetWeaver 7.3 Application Server Java on <OS>: <DB>*.

Make sure you have read **SAP Note 1468349** and the documentation *Master Guide—SAP Supplier Relationship Management powered by SAP NetWeaver* before you start with any installation guide. The Master Guide and the installation guides are available at ► <http://service.sap.com/instguides> → *Installation and Upgrade Guides* → *SAP Business Suite Applications* → *SAP SCM* → *SAP SCM Server* → *Using SAP SCM 7.0 Server* ◀.

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that are printed on both sides.**

2 Post-Installation

2.1 Post-Installation Steps for SCM Replenishment Workbench for Store (SCMRWBS)

After SAPinst or the deployment with JSPM tool has finished, you need to perform the following post-installation steps for SCM RWBS.

For more information about how to deploy new components with JSPM, see the SAP Library at

► <http://help.sap.com/NW73> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Library: Function-Oriented View* → *Solution Life Cycle Management* → *Software Logistics* → *Java Support Package Manager* → *Deploying New Software Components* ◀.

For more information about the upgrade of SCM RWBS, see SAP Note [1334357](#).

2.1.1 Maintaining the JCo Connections

RWBS Web Dynpro uses the adaptive RFC model, therefore the JCo destinations are part of the installed software. However, you have to maintain the appropriate connections at configuration time. You create and maintain the JCo connections using the *Web Dynpro Content Administrator* that is installed with the Java Engine.

1. Open the *Web Dynpro Content Administrator* in a browser:
<http://<yourServer>:<yourHTTPport>/webdynpro/dispatcher/sap.com/tc~wd~tools/Explorer>
2. Log in as the administrator of the Java engine, **administrator**.
3. Choose ► *Deployed Content* → *SAP.COM* → *sap.com/scm ~ sui* ◀.
4. Choose the *JCo Connections* tab page in the right screen area.
5. On the *JCo Connections* tab page, the following two connections are displayed, both marked red because you have to create them before they can be used.
 - WD_SUI_RFC_METADATA_DEST
 - WD_SUI_MODELDATA_DEST

For more information about creating and maintaining the JCo connections see the SAP Library at:

► <http://help.sap.com/nw73> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Library: Function-Oriented View* → *Application Server* → *Application Server Java* → *Developing Java Web Dynpro Applications* → *Content Administration and Measurements* → *Web Dynpro Content Administrator* → *Functions for JCo Destinations* → *Creating JavaConnector (JCo) Destinations* ◀.

2.1.1.1 Using Name/Password for Connection to Back End

Procedure

To create JCo connections for WD_SUI_RFC_METADATA_DEST, proceed as follows

1. Open the *Web Dynpro Content Administrator* in a browser as follows using the *administrator* user and the appropriate password:

<http://yourServer>:<yourHTTPport>/webdynpro/dispatcher/sap.com/tc~wd~tools/>

[Explorer](#)

2. In the *Web Dynpro Content Administrator*, choose *Create JCo Destination*.
3. On the *General Data* screen, in the *Name* field, enter **WD_SUI_RFC_METADATA_DEST** and, in the *Client* field, enter **<your_productive_client>**.
4. In the *JCo Pool Configuration* group box, increase the *Maximal Pool Size* to around **30** and the *Maximum Connections* to around **30**.
5. Choose *Next*.
6. On the *J2EE Cluster* screen, select *Use local J2EE engine <>*.
7. Choose *Next*.
8. On the *Connection Type* screen, select *Dictionary Meta Data*.
9. Choose *Next*.
10. On the *Msg. Server* screen, select your back-end system from the *Message Server* dropdown list.



NOTE

The message server list provided here is comes from the System Landscape Directory (SLD) you configured in your Java instance. If you use a local SLD, there is probably only one entry here. If you do not have an entry for the ABAP back end you want to use, you have to first create your back end in the SLD as a technical system.

11. Choose *Next*.
12. On the *Security* screen, maintain the following settings:

User Authentication

Field	Value
<i>Used Method</i>	User/Password
<i>Name</i>	User name existing in the ABAP back end with S_RFC authorization. This user should be a communication (CPIC) user for security reasons. This user is not used for application purposes, but only for retrieving type information from DDIC.
<i>Password</i>	Valid password for this RFC user

13. Choose *Next* and *Finish*.

2.1.1.2 Using Tickets for Connection to Back End

If you want RFCs to be performed by the real dialog users who are logged on to the Web Dynpro applications, you need to configure the application JCo connection to use tickets. To do so, you have to prepare the following:

- In addition to the application roles, make sure that all dialog users have RFC authorization.
- Configure ticket exchanging between your ABAP and your Java instance.



NOTE

For more information about how to install SAP Log-On tickets, see the *SAP Library* at:

► <http://help.sap.com/nw73> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Library: Function-Oriented View* → *Security* → *User Authentication and Single Sign-On* → *Integration in Single Sign-On (SSO) Environments* → *Single Sign-On for Web-Based Access* → *Using Logon Tickets* ➔.

Procedure

To create JCo connections for `WD_SUI_MODELDATA_DEST`, proceed as follows:

1. Open the *Web Dynpro Content Administrator* in a browser as follows using the *administrator* user and the appropriate password:
<http://<yourServer>:<yourHTTPport>/webdynpro/dispatcher/sap.com/tc~wd~tools/Explorer>
2. In the *Web Dynpro Content Administrator*, choose *Create JCo Destination*.
3. On the *Destination type* screen, enter `WD_SUI_MODELDATA_DEST` in the *Name* field and in the *Client* field enter `<your_productive_client>`.
4. In the *Destination Name* group box, in the *Client* field, enter `<your target client>`.
5. In the *JCo Pool Configuration* group box, increase the *Maximal Pool Size* to around **30** and the *Maximum Connections* to around **30**.
6. Choose *Next*.
7. On the *J2EE Cluster* screen, select *Use local J2EE engine <>*.
8. Choose *Next*.
9. On the *Connection Type* screen, select *Application Data*.
10. Choose *Next*.
11. On the *Msg. Server* screen, select your back-end system from the *Message Server* list.



NOTE

The message server list provided here is comes from the System Landscape Directory (SLD) you configured in your Java instance. If you use a local SLD, there is probably only one entry here. If you do not have an entry for the ABAP back end you want to use, you have to first create your back end in the SLD as a technical system.

12. Choose *Next*.
13. On the *Security* screen, maintain the following settings:

2.2 Post-Installation Steps for SCM Event Management Web Communication Layer (SCM EM-WCL)

User Authentication

Field	Value
<i>Used Method</i>	User/Password
<i>Name</i>	Enter a technical RFC user maintained in back-end user maintenance (transaction SU01). This user needs to have RFC authorization for function group /AIN/UI_RFC. User type is communication, CPIC.
<i>Password</i>	Valid password for this RFC user

**NOTE**

You cannot specify a user. In addition, make sure that the *Language* field is blank

14. Choose *Next* and *Finish*.

To enable ticketing, you have to publish a Java certificate into the ABAP system.

For more information about Setting Up Web Dynpro Applications for Logon Tickets see the SAP Library at: <http://help.sap.com/nw73> → SAP NetWeaver 7.3 Library English → SAP NetWeaver Library: Function-Oriented View → Application Server → Application Server Java → Developing Java Web Dynpro Applications → Content Administration and Measurements → Web Dynpro Content Administrator → Setting up a Web Dynpro Application for a Logon Ticket ↩.

For more information about Logon Tickets see the SAP Library at: <http://help.sap.com/nw73> → SAP NetWeaver 7.3 Library English → SAP NetWeaver Library: Function-Oriented View → Security → User Authentication and Single Sign-On → Integration in Single Sign-On (SSO) Environments → Single Sign-On for Web-Based Access → Using Logon Tickets ↩.

2.1.2 Testing the RWBS Installation

Procedure

To test the installation, launch the following URL in a browser window:

<http://<Server>:<HTTPport>/webdynpro/dispatcher/sap.com/scm~sui/StoreUserInterfaceApp>

2.2 Post-Installation Steps for SCM Event Management Web Communication Layer (SCM EM-WCL)

You need to perform the following post-installation steps for SCM Event Management Web Communication Layer (SCM EM-WCL) after SAPinst has finished successfully.

2.2.1 Configuring the Administration User on the SAP SCM Server

You need to give administration rights on the SCM Event Management Web Communication Layer (SCM EM-WCL) to all SAP Event Management (EM) users.

Prerequisites

Since the corresponding user must already exist in the SAP SCM server, either create a new user in the SAP SCM server before performing the procedure below or specify an existing user.

Procedure

1. Log on to the SAP SCM server as administration user.
2. Call transaction SU01.
3. Enter an SAP EM user for which you want to configure administration rights in the SCM EM-WCL and choose *Create* or *Change*.
4. You have to define at least the following parameters in the *Parameters* tab:
 - /SAPTRX/WCL_ADMIN with value **X**
This parameter authenticates a user as administrator in the SCM EM-WCL. This means that the user is allowed to access the administration page.
 - /SAPTRX/WCLNOCACHING with value **X**
This parameter reloads the user profiles assigned to your user for each SCM EM-WCL transaction. This is an optional parameter used to reload the profiles automatically instead of using the administration page every time a user profile has been modified.
5. Save your settings.

2.2.2 Configuring the Connection User Role on the SAP SCM Server

To connect with SCM EM-WCL and to enable the Quick Search functions, configure an SAP EM user as connection user. You can define the connection user in the Connection Manager of SCM EM-WCL. You need to apply the authorization objects S_RFC and X_EM_EH to the connection user.



RECOMMENDATION

To fully protect SAP EM data, we strongly recommend that the connection user is only assigned to the above-mentioned authorization profiles.

Procedure

1. Log on to the SAP SCM server as administration user.
2. Call transaction PFCG to create a new role (WCLCONNECTION, for example).
3. In the *Change Roles* screen, select the tab *Authorization*.
4. In *Maintain Authorization Data and Generate Profiles* choose *Change Authorization Data*.
5. In *Choose Template*, choose *Do not select templates*.
6. In the *Change role: Authorizations* screen, choose *Manually*.
7. Enter **S_RFC** in the field *Authorization object* and choose *Enter*.
A tree structure called *Manually Authorization Check for RFC Access* is added to your role.

8. Expand the tree structure until the nodes *Activity*, *Name of RFC to be protected* and *Type of RFC object to be protected* appear.
9. Add the following values by clicking on the row behind each node:

Node	Value to be entered
Activity	Execute
Name of RFC to be protected	/SAPTRX/EH_BAPIS /SAPTRX/UCCOMMUNICATION /SAPTRX/WCL_SETTINGS BAPT RFC1 SDIFRUNTIME SU_USER SYST
Type of RFC object to be protected	Function Group

10. Choose *Manually* to apply the object X_EM_EH as described above for object S_RFC. After that, a tree structure called *Manually Event Management* is added to your role.
11. Expand the tree structure until the nodes *Parameter*, *Parameter Value of length 255*, and *Activity* appear.
12. Add the following values by clicking on the row behind each node:

Node	Value to be entered
Parameter	*
Parameter Value of length 255	*
Activity	All activities (choose <i>Full Authorization</i>)

13. To generate the profile, choose **► Authorizations → Generate ◀**.
14. Exit the transaction.
15. Call transaction SU01 and add the above created role to the connection user.

**NOTE**

Since the corresponding user must already exist in the SAP EM system, either create a new user in the SAP SCM system now or use an existing user.

You have to enter at least the above created role in the *Roles* tab.

16. Save your entries and exit the transaction.

**NOTE**

If your configuration has no user profiles or SCM EM-WCL transactions assigned to a user, but there is a user profile assigned to a role (and this role is consequently assigned to the user attempting to log in to the SCM EM-WCL), make sure that you apply the authorization object S_USER_GRP to the connection user.

Otherwise the following error is displayed on the login page when trying to log in to the SCM EM-WCL:

No tracking scenario has been assigned to your user profile, contact your SAP Event Management administrator.

For more information, see [SAP Note 761819](#).

2.2.3 Preparing the J2EE Engine for SAP EM-WCL

You have to prepare the J2EE Engine for SAP EM-WCL on SAP NetWeaver 7.30.

Prerequisites

Log on to the administration page of the J2EE Engine with your J2EE Engine administrator user. For example, open the <http://localhost:50000/nwa> page with the Administrator user.

Procedure

Creating Destinations to Connect WCL to the SAP EM System

1. In SAP NetWeaver Administrator (NWA), choose ► *Configuration Management* → *Destinations* ⚡.
2. Choose *Create* and enter a name for the destination, for example, **WCL_R3_DEST**. The system uses this name in the Connection Manager configuration of WCL. For more information, see Connection Manager Parameters.
3. Choose destination type *RFC*.
4. To create a working RFC connection to the SAP Event Management back end, follow the steps in the *Create* dialog box.
5. Save the destination.
6. To test the destination, choose the *Ping Destination* push button.

For more information about RFC destinations, see the SAP Library at ► <http://help.sap.com/NW730> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Library: Function-Oriented View* → *Security* → *Network and Transport Layer Security* → *Transport Layer Security on the AS Java* → *Destination Service* → *Maintaining RFC Destinations* ⚡.

Creating an Offline Administrator User for the WCL Administration Page

You can use the offline administrator user to access the WCL administration page when there is no connection to the SAP Event Management system. You cannot use it when WCL is connected to the SAP Event Management back end.

1. In SAP NetWeaver Administrator (NWA), choose ► *Configuration Management* → *Identity Management* ⚡.
2. Create a new user, for example, **WCL_ADMIN**.
3. Add role **SAP_SCM_WCL_Offline_Administrator** to the user.
The role is delivered with SAP EM-WCL on SAP NetWeaver 7.30.
4. Save the user.

2.2.4 Customizing the User Profile on the SAP SCM Server

To be able to log on to SCM EM-WCL, you need to perform a Customizing activity on the SAP Event Manager. You have to create an SCM EM-WCL transaction and a user profile and assign it to each user that needs access to the SCM EM-WCL.

Procedure

Configuring the User Profile

1. Log on to the SAP SCM server.
2. Call transaction SPRO.
3. Choose *SAP Reference IMG*.
4. Expand the SAP SCM Customizing tree and choose ► *SAP SCM – Implementation Guide* → *Event Management* → *Event Messages and Status Queries* → *Web Interface* ◀.
Perform all activities under this node.

Running a Smoke Test

For a smoke test, you can use Customizing activities from the visibility scenario *Deliveries in LTL shipment*, which is shipped together with SAP EM. This test enables you to log on to the SCM EM-WCL and see the search page.



NOTE

If you see a *Warning* during the procedure, you can ignore it.

1. Call transaction /SAPTRX/UCUSER.
2. Assign the *WCL Transaction* LTL_CUSTOMER and the *User Profile ID* LTL_DELIV_CUSTOMER to an existing user.
3. Fill the field *Order Web* with value **1**.
4. If your SCM EM-WCL was connected before you performed this Customizing activity, go to the *Admin Page* of the SAP EM-WCL and reload the *Profile Manager*.
5. Enter the following URL in a browser: **`http://<SAP J2EE Engine Host>:<HTTP port>/scem/<URL pattern>/admin`**.



EXAMPLE

Example of URL:

`http://localhost:50000/scem/wcl/admin`

2.2.5 Maintaining the SCM EM-WCL Configuration Web Page

You need to configure all the *Managers* shown in the table below. You can use the proposed default values with the exception of the *Connection Manager*, which you need to now configure. Modify the parameters of each manager starting with *Connection Manager* by clicking on the link of the corresponding manager.



NOTE

For more information, see *Configuration Parameters for SAP Event Management Web Communication Layer (SCM EM-WCL)* [[page 21](#)].

Procedure


Open the following URL in a Web browser:

`http://<SAP J2EE Engine Host>:<HTTP port>/scem/<URL pattern>/admin`

For example, enter:

`http://localhost:50000/scem/wcl/admin.`

Enter the user name and password of the offline administrator user you have created. For more information, see *Preparing the J2EE Engine for SAP EM-WCL* [page 13].

Manager	Description
<i>Automatic Refresh Manager</i> [page 22]	Configures the <i>Automatic Update</i> feature in the SCM EM-WCL. <i>Automatic Update</i> is a mechanism to automatically refresh Web pages if the event handler has been updated in the SAP EM.
<i>Connection Manager</i> [page 21]	Configures the communication between SCM EM-WCL and the SAP Event Management (SAP EM).
<i>Display Manager</i> [page 23]	Configures how the SCM EM-WCL pages are displayed.
<i>Global Manager</i> [page 23]	Configures the interfaces.
<i>Profile Manager</i> [page 24]	Configures the user profiles that are loaded from the Event Management at startup. <div>  CAUTION Make sure that you set up <i>Connection Manager</i> before <i>Profile Manager</i>. </div>
<i>Session Manager</i> [page 25]	Defines the implementation of the SCM EM-WCL session interfaces. Includes the mapping between the JSP and sessions.

After you have adapted the corresponding properties of a manager, choose *Save Properties* and reload the manager. There are two ways to determine if the connection was successfully established:

- Log on to the SCM EM-WCL using your standard user and password for SAP Event Management.
- If you are unable to log on to the SCM EM-WCL, the system logs a connection error, which is visible in SAP NetWeaver Administrator. To access the log, navigate to SAP NetWeaver Administrator page.
- Use your J2EE administrator user to open the administration page of the J2EE Engine.
- Go to ► `http://<SAP J2EE Engine Host>:<HTTP port>/nwa` → *Problem Management* → *Logs and Traces* → *Log Viewer* ◀.



NOTE

If the system does not establish a connection or the connection fails, the SCM EM-WCL remains in offline mode and you must therefore use the offline user and password. We recommend that you start a new browser window.



NOTE

The SAP Java Connector uses SAP Remote Function Calls (RFC) to communicate with SAP systems. The default value of maximum simultaneous RFCs is 100. To run more than 100 simultaneous RFCs, you need to specify the environment variable `CPIC_MAX_CONV`.

2.2 Post-Installation Steps for SCM Event Management Web Communication Layer (SCM EM-WCL)

Only valid for: Windows | Windows |

To set the CPIC_MAX_CONV variable:

End of: Windows | Windows |

Only valid for: Windows | Windows |

1. Choose ► *Start* → *Settings* → *Control Panel* ◀.
2. Choose ► *Advanced* → *Environment Variables* ◀ (on Windows Server 2003) or ► *Advanced system settings* → *Environment Variables* ◀ (on Windows Server 2008).
3. Add system variable CPIC_MAX_CONV with the value <maximum number of simultaneous RFCs to the SAP System>
4. Restart the system.
5. Increase the profile value gw/max_conn and gw/max_sys on the SAP gateway to support more parallel connections. If you run into memory bottlenecks, also increase gw/max_overflow_size and gw/max_shm_req. Refer to report RSMONGWY_CHANGE_PARAMETER started from transaction SA38.
6. For more information about SAP Java Connectors, see <http://service.sap.com/connectors>.

End of: Windows | Windows |

2.2.6 Adding Additional Hosts to the Existing SCM EM-WCL Instance

Procedure

To add an additional system or client using the same instance of SCM EM-WCL (multiple hosts with the same SCM EM-WCL instance) you have to modify the file `web.xml` located in the `\webapps\WEB-INF` directory file.



NOTE

Issue an `update_files` command on the telnet console of the SAP NW AS Java for each changed `web.xml` file, for example `update_files -a scm~em.wcl -unit -f c:\web.xml -e WEB-INF/web.xml -m sap.com~scm~em~wcl.war -c servlet.jsp`

The example below shows how to define two hosts `controllera1p001` and `controllerq1p001`.

The `parameter_xx.xml` file defines the properties of SCM EM-WCL, for example, `parameters_a1p_001.xml` and `parameters_q1p_001.xml`.

The URL pattern defines the URL used to access SCM EM-WCL. The example contains two URLs:

- <http://pwwdf2612.wdf.sap.corp:50000/scem/a1p001/login>
- <http://pwwdf2612.wdf.sap.corp:50000/scem/q1p001/login>

**EXAMPLE**

```
<?xml version="1.0" encoding="ISO-8859-1" ?>
<!DOCTYPE web-app (View Source for full doctype...)>
- <web-app>
  <distributed/>
  - <servlet>
    <servlet-name>controllera1p001</servlet-name>
    <servlet-class>com.sap.scem.servlet.ScemServlet</servlet-class>
    - <init-param>
      <param-name>ServletParameterFile</param-name>
      <param-value>/WEB-INF/parameters_a1p_001.xml</param-value>
      <description>The file that contains all the servlet
parameter</description>
    </init-param>
    <load-on-startup/>
  </servlet>
  - <servlet>
    <servlet-name>controllerq1p001</servlet-name>
    <servlet-class>com.sap.scem.servlet.ScemServlet</servlet-class>
    - <init-param>
      <param-name>ServletParameterFile</param-name>
      <param-value>/WEB-INF/parameters_q1p_001.xml</param-value>
      <description>The file that contains all the servlet
parameter</description>
    </init-param>
    <load-on-startup/>
  </servlet>
  - <servlet-mapping>
    <servlet-name>controllera1p001</servlet-name>
    <url-pattern>/a1p001/*</url-pattern>
  </servlet-mapping>
  - <servlet-mapping>
    <servlet-name>controllerq1p001</servlet-name>
    <url-pattern>/q1p001/*</url-pattern>
  </servlet-mapping>
</web-app>
```

Figure 1:

2.2.7 Monitoring SCM EM-WCL in CCMS

Procedure

As of SAP NetWeaver Application Server 6.4, you can monitor SCM EM-WCL using the GRMG-LITE function.

To set up this activity on the SAP NetWeaver Application Server, follow the instructions in SAP Note [755397](#).

2.2.8 Activating the Virus Scan for SCM EM-WCL

The virus scan function triggers a virus scan before an attachment is sent to SAP Event Management (SAP EM).

The SCM EM-WCL uses the SAP Virus Scan Interface (VSI, provided by SAP NetWeaver). This calls a VSI service to access external virus scan products that are certified by SAP.

Procedure

To activate this virus scan for SCM EM-WCL, perform the following steps:

1. Set up a Virus Scan Provider in the Visual Administrator.

**NOTE**

For more information about the SAP Virus Scan Interface and about setting up a Virus Scan Provider, see the SAP Library at <http://help.sap.com/NW73> → SAP NetWeaver 7.3 Library

2.3 Accessing Configuration Documentation in SAP Solution Manager

English → SAP NetWeaver Library: Function-Oriented View → Security → System Security → Virus Scan Interface ↵.

See also **SAP Note** [786179](#), which provides an overview of the Virus Scan Interface and the certified partners.

2. On the SAP SCM EM-WCL *Admin* screen, enter **TRUE** for the *Virus Scan Execution* parameter in the *Global Manager*.

Result

Before the attachment is sent to SAP EM, a virus scan is performed. If problems occur with the Virus Scan Interface, for example, a virus is found or a connection problem occurs, a warning message is sent to the user informing him or her that the attachment cannot be sent. The SCM EM-WCL *Admin* log provides detailed information about the error.

2.3 Accessing Configuration Documentation in SAP Solution Manager

To access configuration documentation in SAP Solution Manager, you have to connect your newly installed SAP system to SAP Solution Manager.

Prerequisites

- You have installed an SAP Solution Manager system as described in the documentation *Installation Guide – SAP Solution Manager <Current Release> on <OS>: <Database>*.
- You have connected your SAP system to SAP Solution Manager as described in the documentation *Configuration Guide – SAP Solution Manager <Current Release> as of <Current SP Level>*.

You can find this documentation at:

► <http://service.sap.com/instguides> → SAP Components → SAP Solution Manager → <Current Release> ↵

Procedure

1. Log on to your SAP Solution Manager system.
2. To be able to access configuration documentation, create a project as follows:
 1. Create your project with transaction **SOLAR_PROJECT_ADMIN** for project administration.
 2. Connect your SAP system to SAP Solution Manager with transaction **SMSY** for the SAP Solution Manager system landscape.
 3. Create a project structure and add the required scenarios for your SAP system to your project structure with the Business Blueprint transaction **SOLAR01**,
 4. Add your SAP system configuration structures to your project structure with the configuration transaction **SOLAR02**.
3. Go to the project structure folder <project name> using transaction **SOLAR02**.

2.3 Accessing Configuration Documentation in SAP Solution Manager

4. Access configuration documentation for SAP NetWeaver usage types at ► *Configuration Structure* → *SAP NetWeaver 7.3* ◀.
5. Access configuration documentation for all areas of SAP SCM at ► *Configuration Structure* → *SAP SCM* → *<release>* ◀.

Result

You can now configure your SAP system according to the configuration documentation in SAP Solution Manager.

More Information

- ► <http://service.sap.com/solutionmanager> → *Media Library* → *Technical Papers* → *How to Create a Configuration Guide using SAP Solution Manager* ◀
- ► <http://help.sap.com> → *SAP Solutions* → *SAP Solution Manager* → *Documentation for SAP Solution Manager* → *<current release>* → *SAP Solution Manager* → *Implementing and Upgrading SAP Solutions* → *Configuration* ◀

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that are printed on both sides.**

3 Additional Information

3.1 Configuration Parameters for SCM Event Management Web Communication Layer (SCM EM-WCL)

3.1.1 Connection Manager Parameters



NOTE


For more information about Secure Network Communication (SNC), see ► <http://service.sap.com/security> → Security → Infrastructure Security → Secure System Management ◀.

The *Connection Manager* contains the configuration settings for the communication between SCM Event Management Web Communication Layer (SCM EM-WCL) and SAP Event Management (SAP EM).

Parameter	Sample Entry	Description
<i>Display Information Message</i>	true	Can be either true or false . Defines whether the system displays an information message if the maximum number of hits is reached.
<i>Supported Locales</i>	EN, DE, FR	Comma-separated list of abbreviations of supported locales (for example, EN for ENGLISH)
<i>SNC Partner Name (SAP Event Management)</i>	p:CN=AGAP9, O=SAP-AG, C=DE	Secure Network Communication (SNC) Partner Name—SAP Event Management must be defined in order to use Single Sign On (SSO).
<i>Supported Issuer</i>	CN=SSO_CA, O=SAP-AG, C=DE	The supported issuer for the X509 certificate must be defined in order to use Single Sign On (SSO).
<i>Destination</i>	WCL_R3_DEST	JCo destination that WCL uses to connect to SAP Event Management as defined in SAP NetWeaver Administrator of the J2EE Engine. If the destination is not available or incorrectly configured, you receive the following error message: Destination <destination> does not exist
Maximum Number of Hits	50	Maximum number of hits when retrieving event handlers.

3.1.2 Automatic Refresh Manager Parameters

Automatic Refresh Manager configures the Automatic Update feature in the SCMEM-WCL. Automatic Update is a mechanism to automatically refresh Web pages if the event handler (currently displayed in the Web pages) has been updated in SAP EM. The Web page is refreshed at fixed time intervals configured in these parameters. If you want to enable this feature for a given user profile, you must set it in the SAP EM for each user profile (*Auto Refresh Indicator*).

Parameter Entry	Sample Entry	Description
<i>Enable</i>	<code>true</code>	Can be either true or false . This flag enables the <i>Automatic Update</i> in the Web Server. If this flag is set to false , there is no automatic update even if the <i>Auto Refresh Indicator</i> is checked for a given user profile.
<i>Simple Algorithm</i>	<code>false</code>	Can be either true or false . This flag specifies if a simple algorithm should be used for the automatic update. If this parameter is set to true , the Web pages are refreshed after each interval of time (specified by the parameter <i>refreshDelayInMillis</i>) even if the event handler has not been modified. The behavior is the same as pressing the <i>Refresh</i> button in the browser. If the parameter is set to false , a background process queries the SAP EM to obtain the list of event handlers that are modified and then only the Web pages containing those event handlers are refreshed.
<i>Delay in Milliseconds for Browser Update</i>	<code>30000</code>	This parameter specifies the time interval (in milliseconds) between each refresh query between the browser and the Web Server.
<i>Force Query for Suspected Inconsistencies</i>	<code>true</code>	Can be either true or false . This parameter specifies if the Web server should force a query to the SAP EM (to obtain event handler information) when the <i>AutomaticUpdateManager</i> (background process) does not know if an update has occurred for a given event handler. This is required since no “real time” algorithm is used to obtain the updates.
<i>Delay in Milliseconds for List Update</i>	<code>15000</code>	This parameter specifies at which frequency the Web server queries the SAP EM to obtain the list of event handlers that have been updated. This value is specified in milliseconds. <div>  CAUTION A value of 0 means that each time a client (browser) queries to see if an event handler has been updated, a query to the SAP EM is performed. This feature could add a significant load to the SAP EM. </div>

3.1.3 Display Manager Parameters

Display Manager parameters indicate the configuration that the SCM EM-WCL pages performs so that they can be displayed in a certain way.


Parameter	Sample Entry	Description
<i>Number of Event Handlers to Display</i>	25	Specifies the maximum number of event handlers that are displayed in the <i>Event Handler List</i> page.
<i>Number of Events to Display</i>	10	Specifies the maximum number of event messages that are displayed in the <i>Event Handler Detail</i> page.
<i>Frames Allowed</i>	true	Can be either true or false . Indicates if the SCMEM-WCL is going to use frames or not.
<i>attachmentWidth</i>	500	Window width to display an attachment
<i>attachmentHeight</i>	500	Window height to display an attachment
<i>Automatic Refresh Icon</i>	icon.gif	Icon to be placed in the Automatic Refresh with field enabled. If it is not defined, the field is going to be indicated with text.
<i>Branding</i>	header/SCM_Header.jpg	Background of SCM EM-WCL header
<i>Logo</i>	header/sap_logo.gif	Logo placed on right side of header
<i>Template</i>	Sap Standard	Style sheet to be used in SCM EM-WCL

3.1.4 Global Manager Parameters

Global Manager parameters manage the implementation of each interface.

Parameter	Sample Entry	Description
<i>jspErrorPage</i>	/WEB-INF/jsp/errorhandler.jsp	Error page that handles HTTP error code.
<i>Event Details XSL Template</i>	/WEB-INF/xsl/EV_Detail.xsl	Relative path and file name of the XSL template for the printable version of the <i>Event Detail</i> Web page.
<i>EH Details XSL Template</i>	/WEB-INF/xsl/EH_Detail.xsl	Relative path and file name of the XSL template for the printable version of the <i>Event Handler Detail</i> Web page.
<i>EH List XSL Template</i>	/WEB-INF/xsl/EH_List.xsl	Relative path and file name of the XSL template for the printable version of the <i>Event Handler List</i> Web page.
<i>My List XSL Template</i>	/WEB-INF/xsl/MY_List.xsl	Relative path and file name of the XSL template for the printable version of <i>My List</i> Web page.
<i>Maximum File Size in KB for Upload</i>	1024	Maximum size of attachment in KB for upload.
<i>ICustomProfileHomeImpl</i>	com.sap.scm.example.Z_CustomerProfileImpl	Full class name that implements interface <i>ICustomProfileHomeImpl</i> . It is used in open SCM EM-WCL.

3.1 Configuration Parameters for SCM Event Management Web Communication Layer (SCM EM-WCL)

Parameter	Sample Entry	Description
<i>ICustomUserHomeImpl</i>	<code>com.sap.scem.example. Z_CustomerUserHomeImpl</code>	Full class name that implements interface <code>ICustomUserHomeImpl</code> . It is used in open SCM EM-WCL.
<i>ICustomEventHandlerHomeImpl</i>	<code>com.sap.scem.example. Z_EventHandlerHomeImpl2</code>	Full class name that implements interface <code>ICustomEventHandlerHomeImpl</code> . It is used in open SCM EM-WCL.
<i>EH Persistence Class</i>	<code>com.sap.scem.example. Z_EventHandlerHomeImpl2</code>	Class that manages the persistence of an event handler. <div>  NOTE For more information, see the <i>Web Interface Modification Guide</i> at: http://service.sap.com/scm → <i>Event Management</i> → <i>Detailed Information</i> → <i>SAP EM 5.1/7.0: Configuration and Modification Guide for the Web Interface</i>. ↩ </div>
<i>Virus Scan Execution</i>	FALSE	TRUE if SAP Virus Scan Interface should be executed. Otherwise, FALSE. To set up a Virus Scan Provider before using this functionality, refer to the Virus Scan Interface documentation in the SAP Library at: http://help.sap.com/nw73 → <i>SAP NetWeaver 7.3 Library English</i> → <i>SAP NetWeaver Library: Function-Oriented View</i> → <i>Security</i> → <i>System Security</i> → <i>Virus Scan Interface</i> ↩ For more information about <i>Virus Scan Interface</i> , see SAP Note 786179 .

3.1.5 Logging Capabilities Using SAP NetWeaver

For SCM EM-WCL you configure the logging and tracing mechanisms in SAP NetWeaver Administrator.




For more information about logging, see SAP Library at <http://help.sap.com/nw73> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Library: Function-Oriented View* → *Application Server Java* → *Administering Application Server Java* → *Monitoring* → *Monitoring and Displaying Log Files* ↩.

For more information about SAP NetWeaver Administrator, see SAP Library at <http://help.sap.com/nw73> → *SAP NetWeaver 7.3 Library English* → *SAP NetWeaver Library: Function-Oriented View* → *Application Server Java* → *Administering Application Server Java* → *Administration* → *Administration Tools* → *SAP NetWeaver Administrator* ↩.

3.1.6 Profile Manager Parameters

These parameters indicate if the user profiles are going to be loaded from the SAP Event Management at startup. If not, a path of the XML file where the profiles can be found is provided.

3.1 Configuration Parameters for SCM Event Management Web Communication Layer (SCM EM-WCL)



Parameter	Sample Entry	Description
<i>Load All Profiles at Start Up</i>	true	Can be either true or false . Indicates if all user profiles should be loaded at startup. If set to false, SCM EM-WCL loads each user profile when needed.
<i>Path for Serialized User Profiles</i>	c:/temp	Specifies the directory where all the profiles are dumped. <div>  NOTE It does not matter where you locate this directory as long as it is accessible from the SAP J2EE Engine. </div> <div>  CAUTION Be careful when changing this parameter. </div>
<i>Custom Field Implementation</i>	com.sap.scem.example.Z_CustomerFieldsImpl1	Customer class name that implements interface <code>ICustomFields</code> . It is used in open SCM EM-WCL. <div>  NOTE For more information, see the <i>Web Interface Modification Guide</i> at: ▶ http://service.sap.com/scm → Event Management → Detailed Information → SAP EM 5.1/7.0: Configuration and Modification Guide for the Web Interface. ◀ </div>

3.1.7 Session Manager Parameters


These parameters indicate the implementation of the session interfaces while using open SCM EM-WCL and the mapping file that indicates the relation between the sessions and their JSPs.

Parameter Name	Sample Entry	Description
<i>Configuration File</i>	/WEB-INF/mapping.properties	Mapping file that indicates the relation between the session classes and their JSPs.
<i>ICustomAdminSession</i>	com.sap.scem.example.Z_AdminSession	Customer class name that implements interface <code>ICustomAdminSession</code> . It is used when modifying the <i>Admin</i> screen.
<i>ICustomDirectSendSession</i>	com.sap.scem.example.Z_FastEntrySession	Customer class name that implements interface <code>ICustomDirectSendSession</code> . It is


3.1 Configuration Parameters for SCM Event Management Web Communication Layer (SCM EM-WCL)

Parameter Name	Sample Entry	Description
		used when modifying the <i>Fast Entry</i> screen.
<i>ICustomEDetailSession</i>	<code>com.sap.scm.example.Z_EDetailSession</code>	Customer class name that implements interface <i>ICustomEDetailSession</i> . It is used when modifying the <i>Event Detail</i> screen.
<i>ICustomEHDetailSession</i>	<code>com.sap.scm.example.Z_EHDetailSession</code>	Customer class name that implements interface <i>ICustomEHDetailSession</i> . It is used when modifying the <i>Event Handler Detail</i> screen.
<i>ICustomEHLListSession</i>	<code>com.sap.scm.example.Z_EHLListSession</code>	Customer class name that implements interface <i>ICustomEHLListSession</i> . It is used when modifying the <i>Event Handler List</i> screen. <div>  NOTE For more information, see the <i>Web Interface Modification Guide</i> at: http://service.sap.com/scm → <i>Event Management</i> → <i>Detailed Information</i> → <i>SAP EM 5.1/7.0: Configuration and Modification Guide for the Web Interface</i>. ↩. </div>
<i>ICustomEHLListUpdateSession</i>	<code>com.sap.scm.example.Z_EHLListUpdateSession</code>	Customer class name that implements interface <i>ICustomEHLListUpdateSession</i> . It is used when modifying the <i>Event Handler List Update</i> screen.
<i>ICustomEHSearchSession</i>	<code>com.sap.scm.example.Z_SearchSession</code>	Customer class name that implements interface <i>ICustomEHSearchSession</i> . It is used when modifying the <i>Search</i> screen. <div>  NOTE For more information, see the <i>Web Interface Modification Guide</i> at: http://service.sap.com/scm → <i>Event Management</i> → <i>Detailed Information</i> → <i>SAP EM 5.1/7.0: Configuration and Modification Guide for the Web Interface</i>. ↩. </div>

3.1 Configuration Parameters for SCM Event Management Web Communication Layer (SCM EM-WCL)

Parameter Name	Sample Entry	Description
<i>ICustomEHUpdateSession</i>	<code>com.sap.scem.example.Z_EHUpdateSession</code>	Customer class name that implements interface <i>ICustomEHUpdateSession</i> . It is used when modifying the <i>Event Handler Update</i> screen.
<i>ICustomLoginSession</i>	<code>com.sap.scem.example.Z_LoginSession</code>	Customer class name that implements interface <i>ICustomLoginSession</i> . It is used when modifying the <i>Login</i> screen.
<i>ICustomLogoutSession</i>	<code>com.sap.scem.example.Z_LogoutSession</code>	Customer class name that implements interface <i>ICustomLogoutSession</i> . It is used when modifying the log-out functionality.
<i>ICustomMyListSession</i>	<code>com.sap.scem.example.Z_MyListSession</code>	Customer class name that implements interface <i>ICustomMyListSession</i> . It is used when modifying <i>My List</i> screen.
<i>ICustomQuickSearchSession</i>	<code>com.sap.scem.example.Z_QuickSearchSession</code>	Customer class name that implements interface <i>ICustomQuickSession</i> . It is used when modifying the <i>Quick Search</i> screen. <div>  NOTE For more information, see the <i>Web Interface Modification Guide</i> at: http://service.sap.com/scm → <i>Event Management</i> → <i>Detailed Information</i> → <i>SAP EM 5.1/7.0: Configuration and Modification Guide for the Web Interface</i>. ↩. </div>
<i>ICustomSettingSession</i>	<code>com.sap.scem.example.Z_SettingSession</code>	Customer class name that implements interface <i>ICustomSettingSession</i> . It is used when modifying the <i>Settings</i> screen.
<i>ICustomVerifySession</i>	<code>com.sap.scem.example.Z_VerifySession</code>	Customer class name that implements interface <i>ICustomVerifySession</i> . It is used when modifying the <i>Verify</i> screen.
<i>ICustomDisplayAllSession</i>	<code>com.sap.scem.example.Z_CustomDisplayAll</code>	Customer class name that implements interface <i>ICustomDisplayAllSession</i> . It is used when modifying the <i>Display All Indexed Parameters</i> screen.

3.2 Upgrading the SCM Event Management Web Communication Layer

Parameter Name	Sample Entry	Description
		 NOTE For more information, see the <i>Web Interface Modification Guide</i> at: ► http://service.sap.com/scm → <i>Event Management</i> → <i>Detailed Information</i> → <i>SAP EM 5.1/7.0: Configuration and Modification Guide for the Web Interface</i> . ◀
<i>ICustomDFSession</i>	<code>com.sap.scem.example.Z_DfSession</code>	Customer class name that implements interface <i>ICustomDFSession</i> . It is used when modifying the <i>Document Flow</i> screen.

3.2 Upgrading the SCM Event Management Web Communication Layer

To perform an upgrade from SAP SCM WCL 4.1 or SAP SCM WCL 5.0 or SAP SCM WCL 5.1 to SCM EM-WCL 7.0, you need to perform the steps described in the following procedure.

Procedure

1. Remember all settings of the administration page of SAP SCM WCL 4.1 / SAP SCM WCL 5.0 / SAP SCM WCL 5.1.

There is no automatic support. We recommend that you make screenshots of your WCL administration page or save `parameters.xml` to collect the settings of the parameters.

2. Install the SCM EM-WCL 7.0 as described in this documentation.
3. Configure SCM EM-WCL 7.0 according to the old configuration (see step 1 above).



NOTE

Be aware that there are new parameters to configure with SCM EM-WCL 7.0 (see *Post-Installation Steps for SCM EM-WCL* [page 10]).

4. On the SCM server, migrate old user profiles if required.

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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