

PUBLIC

Installation Guide



Developer Workplace for SAP NetWeaver 2004s SR2

Target Audience

- System administrators
- Technology consultants

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Documentation in the SAP Service Marketplace

You can find this document at the following address:

service.sap.com/instguides

Typographic Conventions

Example	Description
< >	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>".
▶ ▶ ◀	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
<u>Example</u>	Textual cross-references to an internet address, for example, http://www.sap.com
/example	Quicklinks added to the internet address of a homepage to enable quick access to specific content on the Web
<u>123456</u>	Hyperlink to an SAP Note, for example, SAP Note 123456
<i>Example</i>	<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

Document History



Caution

Before you start the implementation, make sure you have the latest version of this document. You can find the latest version on SAP Service Marketplace <http://service.sap.com/instguides>.

The following table provides an overview on the most important document changes:

Version	Date	Description
1.0	12/4/2006	Initial Version

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1 Planning

Check Documentation

You must read **SAP Note [924983](#)** before you start the installation. This SAP Note contains the most recent information on the installation, as well as corrections to the installation documentation.

Make sure that you have the up-to-date version of the SAP Note which you can find on the SAP Service Marketplace at <https://service.sap.com/notes>.

1.1 Software Components Overview

The following table defines the installation components. Each table cell corresponds to one installation component.

Component	Description
SAP NetWeaver Developer Studio	The SAP NetWeaver Developer Studio introduces SAP's own environment for developing Java-based, multiple-layered business applications. The new development environment is based on Eclipse, an open source product, whose open plug-in architecture provides a suitable platform for incorporating specific functions. For more information, see the SAP Library at http://help.sap.com/nw2004s ▶ <i>SAP NetWeaver Library</i> ▶ <i>SAP NetWeaver by Key Capability</i> ▶ <i>Application Platform by Key Capability</i> ▶ <i>Java Technology</i> ▶ <i>Java Development Manual</i> ▶ <i>Getting Involved</i> ▶ <i>Concepts of the Developer Studio</i> ◀.
MaxDB	DB software, DB instance, J2EE schema
MS SQL Server	DB software needs to be installed before
SAP J2EE Central Instance	J2EE dispatcher, 1 J2EE server process, SDM
SAP J2EE Central Services	Message Server, Enqueue Server

There are two scenario variants you can choose from for SAP NetWeaver Developer Workplace.

Depending on which scenario you choose, the following components will be installed:

■ Developing Composite Applications

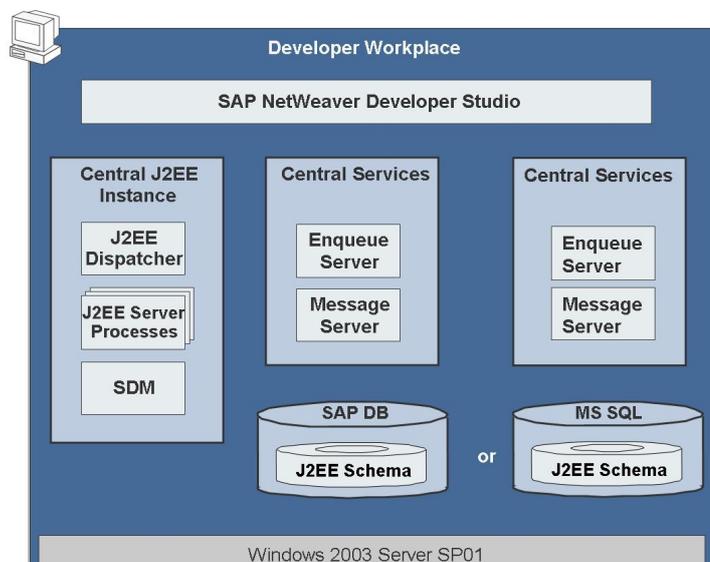
- Composite Applications Framework (CAF)
- Enterprise Portal (EP)

■ Developing Web Dynpro Applications

- System Landscape Directory (SLD)
- Adobe Document Services (ADS) (optional, required for Adobe forms)

- Enterprise Portal (EP)

Figure 1: The graphic below provides an overview of the relevant components.



1.2 Installation Considerations

SAP Developer Workplace for SAP NetWeaver 2004s SR2 is to be installed on a single host running on a Windows 2003 Advanced Server or Windows XP Professional. All components will be installed within one single installation routine.

The installation provides the new *Default Mode* installation. This means that you will see all default values in the first screens. You can change the default values if required.

1.3 Developer Workplace Installation - Step by Step

This section provides an overview of the complete installation procedure.

1. *Checking hardware and software requirements* [page [11](#)].
2. *Preparing the required DVDs* [page [12](#)].
3. *Installing the SQL Server database software* [page] (optional).
4. *Installing SAP Developer Workplace* [page [16](#)].
5. *Installing SAP Developer Studio only* [page [17](#)] (optional).
6. *Starting and stopping the SAP system* [page [19](#)].
7. *Running deployment tests* [page [20](#)].
8. *Starting the Visual Administrator* [page [20](#)].
9. *Starting and stopping the SAP Software Delivery Manager (SDM)* [page [20](#)].

10. *Installing a permanent SAP license* [page [21](#)].

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2 Preparation

You have to complete the following preparations:

1. *Check the hardware and software requirements* [page [11](#)].
2. *Prepare the installation DVDs* [page [12](#)].
3. *Installing the Java Development Kit* [page [13](#)].

2.1 Checking Hardware and Software Requirements

Minimum Hardware Requirements

- **RAM:** 1 GB required, 2 GB recommended
- **CPU:** 1,5 GHz required, 2 GHz recommended
- **Disk Space:**
 - For **MaxDB:** 8.6 GB (3,1 GB temporary)
 - ◆ 3,1 GB (temporary): extracted <installation DVD>
 - ◆ 5.59 GB: Installed SAP NetWeaver Developer Workplace:
 - ◆ SAP J2EE Engine: 3 GB
 - ◆ MaxDB: 2 GB
 - ◆ SAP NetWeaver Developer Studio: 500 MB



Note

- ◆ You can distribute the SAP J2EE engine, the MaxDB software and the SAP NetWeaver Developer Studio on different drives.
- ◆ The MaxDB software is installed automatically during the installation of SAP Developer Workplace.

- For **MS SQL Server:** 9,1 GB (3,1 GB temporary)
 - ◆ 3,1 GB (temporary): extracted <installation DVD>
 - ◆ 6 GB: Installed SAP NetWeaver Developer Workplace:
 - ◆ SAP J2EE Engine: 3 GB
 - ◆ MS SQL Server: 2.5 GB
 - ◆ MS SQL Software 150 MB
 - ◆ SAP NetWeaver Developer Studio: 500 MB



Caution

The database software for MS SQL Server has to be installed **before** you start the installation of the SAP NetWeaver Developer Workplace.

For more information on how to install the MS SQL Server software, see *Installing the SQL Server Database Software* [page].

Software Requirements

Requirement	How to Check
<p>Windows 2003 SP01 English (International) version with NTFS file system; FAT partition is not supported. For this installation, also <i>Windows XP Professional</i> can be used.</p>	<p>Installed SP?</p> <ol style="list-style-type: none"> 1. Choose ► <i>Start</i> ► <i>Run</i> ⚡ and execute the command winver. 2. Check your operating system in the appearing About Windows box if the software requirements are fulfilled. If not, use the links at the left, to install the missing Support Package. <p>FAT or NTFS File System?</p> <ol style="list-style-type: none"> 1. Open the <i>Windows Explorer</i>. 2. Select the drive C:\. 3. Choose ► <i>File</i> ► <i>Properties</i> ⚡. 4. Switch to the <i>General</i> tab to see the type of file system that is in use. 5. Check each drive on which you intend to perform the installation. <p>Installed Software Components? Choose ► <i>Start</i> ► <i>Settings</i> ► <i>Control Panel</i> ► <i>Add/Remove Programs</i> ⚡. The <i>Add/Remove Programs</i> box appears, displaying the installed components.</p>
<p>SUN J2SE SDK version 1.4.2_09 Even if you have already another SDK version on your host, you can install the required 1.4.2_09 version additionally.</p> <p> Caution Togethersoft Users only If (and only if) you have installed Togethersoft you need to read SAP Note 564195 because Togethersoft modifies the SDK installation.</p>	<p>See also ► https://service.sap.com/pam ► <i>SAP NetWeaver</i> ► <i>SAP NetWeaver 2004s</i> ► <i>JSE Platforms</i> ⚡.</p>
<p>Internet Explorer 5.5 or higher</p>	<p>In your Internet Explorer, choose ► <i>Help</i> ► <i>About Internet Explorer</i> ⚡.</p>

2.2 Preparing the Installation DVDs

Make sure that you have the following installation DVDs available:

- *SAP NetWeaver 2004s SR2 Developer Workplace DVD*

- SAP NetWeaver 2004s <your Database> RDBMS DVD
- SAP NetWeaver 2004s SR2 Kernel DVD

**Note**

Use one of the following methods to make DVDs available in parallel:

- Before the installation:
 - Have sufficient DVD drives
 - Copy DVDs manually to local hard disks
- During the installation:

Use the SAPinst DVD / CD Browser dialog. You can check the entered location and then copy the entire DVD to the path you entered in column *Copy Package to*.

Downloading the DVD from SAP Service Marketplace

You can also download and prepare the installation DVD as follows:

Download the installation DVD from SAP Service Marketplace on your local disk into a temporary folder (devwp, for example):

1. Go to ► <https://service.sap.com/swdc> ► Download ► Installations and Upgrades ► Entry by Application Group ◀.
2. In the right frame choose ► SAP NetWeaver ► SAP NetWeaver ► SAP NetWeaver 2004s ► Installation and Upgrade ► Windows Server ► <Oracle> OR <SAP DB> ◀.

2.3 Installing the Java Development Kit

You need to prepare the system for the J2EE Engine by installing the Java Development Kit (JDK).

As of SAP NetWeaver 2004s you must install the J2EE Engine with strong encryption.

The J2EE Engine requires a Java Development Kit (Java™ 2 SDK, Standard Edition = JDK) on every host where the J2EE Engine is to be installed.

The JDK includes the Java Runtime Environment (JRE), which is required both for SAPinst and the SAPinst GUI.

**Note**

If required, you can perform a **remote** installation using a standalone SAPinst GUI on a separate Windows or UNIX host. This lets you perform the installation on a remote host, controlling it with the SAPinst GUI from a local host.

If you want to perform a remote installation, see *Starting SAPinst on the Remote Host* [page 33]. In this case, you need at least a JRE on the local host to start the SAPinst GUI there.

Procedure

1. Check the JDK versions that are released for SAP systems in the Product Availability Matrix (PAM):

- a) Go to <https://service.sap.com/pam>.
- b) On the right-hand panel, choose ► *SAP NetWeaver* ► *SAP NetWeaver 2004s* ► *JSE Platforms* ⚡.
- c) Choose tab strip *JSE Platforms*.

For additional information on the recommended JDK version, see **SAP Note** [709140](#).

2. Make sure a valid JDK version is installed on every host on which you want to install an SAP instance with the J2EE Engine, as follows:

- If JDK is not already installed

Since JDK is not part of the SAP shipment, you need to download and install it.

- If JDK is already installed

Check the installed version of JDK by entering the following command:

```
java -version
```



Note

SAPinst checks environment variable `SAPINST_JRE_HOME` for a valid Java runtime environment.

If `SAPINST_JRE_HOME` is not found, SAPinst also checks `JAVA_HOME`.

3. As of SAP NetWeaver 2004s strong encryption is mandatory for the J2EE Engine and for all usage types that are deployed on it. You need to obtain the JCE policy files beforehand so that they can be installed by SAPinst:
 - a) Download the JCE policy files for your platform at <http://java.sun.com/j2se/1.4.2/downloads>.
 - b) SAPinst installs the JCE policy files during the installation process.

3 Installation Procedure



Note

Make sure that you have completed the planning and preparation activities before you start the installation.

This section provides information about the steps that you have to perform to install your SAP Developer Workplace.



Caution

The database software for MS SQL Server has to be installed **before** you start the installation of the SAP NetWeaver Developer Workplace.

For more information on how to install the MS SQL Server software, see *Installing the SQL Server Database Software* [page].

3.1 Using SAPinst GUI

The following table shows the most important functions that are available in SAPinst GUI:

SAPinst GUI Functions

Button / Function Key / Menu Entries	Description
F1	Displays detailed information about each input parameter.
<i>Exit</i>	Cancels the installation with the following options: <ul style="list-style-type: none"> ■ <i>Stop</i> Stops the installation without further changing the installation files. You can restart SAPinst to continue the installation later from this point. ■ <i>Continue</i> Continues the installation.

Button / Function Key / Menu Entries	Description
<i>Log off</i>	<p>Stops the SAPinst GUI, but SAPinst and the GUI server continue running.</p> <p> Note If for some reason you need to log off during the installation from the host where you control the installation with SAPinst GUI, the installation continues while you are logged off. You can later reconnect to the same SAPinst installation from the same or another host. For more information, see <i>Starting SAPinst GUI Separately</i> [page 33].</p>
<i>Retry</i>	Performs the installation step again (if an error has occurred).
<i>Stop</i>	Stops the installation without further changing the installation files. You can continue the installation later from this point.
<i>Continue</i>	Continues with the option you have chosen before.

3.2 Installing SAP Developer Workplace

1. Insert the *SAP NetWeaver 2004s SR2 Developer Workplace DVD* in your DVD drive or mount it locally.
2. Start SAPinst by double-clicking `sapinst.exe` from the following path:

<DVD drive>:\IM_WINDOWS_I386

SAPinst GUI starts automatically by displaying the *Welcome* screen.



Note

- Normally, SAPinst creates the installation directory `sapinst_instdir` directly below the path `<drive>:\Program Files\`.

Exception:

If `<drive>:\Program Files\` is not accessible or write-protected, SAPinst tries to create the directory `sapinst_instdir` directly below the temporary directory (`$TEMP`).

If SAPinst does not find the temporary directory, the installation terminates with the error FCO-00057.

- SAPinst uses the port 21212 during the installation for communication with the SAPinst GUI.

If one of these ports is already used by another service you must start SAPinst as follows:

`sapinst SAPINST_DIALOG_PORT=<free_port_number>`

3. In the *Welcome* screen, choose *SAP NetWeaver 2004s SR2 Developer Workplace*.
4. Choose *Developer Workplace with MaxDB* or *Developer Workplace with MS SQL Server*.



Note

SAPinst creates the subdirectory `workplace` below `sapinst_instdir`.

5. Follow the instructions of the SAPinst screens.
6. Decide whether you need to change the default parameters (see also *Installation Considerations* [page 8]):
 - **No changes necessary**

If you do not need to change any of the parameters, choose *Next*.
In the screen *Selecting the Master Password* enter the password that should be created for the displayed accounts. The password must have at least 8 characters.
 - **Changes needed**

If you need to change one or more parameter values, select the appropriate check box and choose *Next*.
Depending on the selected parameters, different screens appear where you can adapt the new values.
- When you have entered all the required values, SAPinst displays a summary screen to check your values.
7. Choose *Next* to start the installation and the screen *Start Installation* is displayed.
8. Choose *Start* to start the installation.

Result

The installation automatically starts the J2EE Engine (SCS / Dispatcher / Server) and the SDM server (see minimized command prompt in your task bar).

The following is created:

- MaxDB with the given instance (DBSID) with directory <drive>:\sapdb\... and database schema (SAP<SAPSID>DB)
 - SAP Java system directory structure:
 - <drive>:\usr\sap\<SAPSID>\JC<Instance_Number>
 - <drive>:\usr\sap\<SAPSID>\SCS<Instance_Number>
 - <drive>:\usr\sap\<SAPSID> \SYS
 - SAP Management Console
- With the SAP Management Console, you can start and stop the SAP J2EE Engine and the MaxDB.

3.3 Installing SAP Developer Studio only

With this function you can install the *SAP Developer Studio (Integrated Development Environment - IDE)* only.

Prerequisites

You have access to a SAP NetWeaver system.

Procedure

1. Insert the *SAP NetWeaver 2004s SR2 Developer Workplace DVD* in your DVD drive or mount it locally.
2. Start SAPinst by double-clicking `sapinst.exe` from the following path:
<DVD drive>:\IM_WINDOWS_I386

SAPinst GUI starts automatically by displaying the *Welcome* screen.



Note

- Normally, SAPinst creates the installation directory `sapinst_instdir` directly below the path `<drive>:\Program Files\`.

Exception:

If `<drive>:\Program Files\` is not accessible or write-protected, SAPinst tries to create the directory `sapinst_instdir` directly below the temporary directory (`$TEMP`). If SAPinst does not find the temporary directory, the installation terminates with the error `FC0-00057`.

- SAPinst uses the port 21212 during the installation for communication with the SAPinst GUI. If one of these ports is already used by another service you must start SAPinst as follows: `sapinst SAPINST_DIALOG_PORT=<free_port_number>`

3. In the *Welcome* screen, choose **► SAP NetWeaver 2004s SR2 Developer Studio ► Developer Studio ◄**.
4. Follow the instructions of the SAPinst screens.
5. Decide whether you need to change the default parameters (see also *Installation Considerations* [page 8]):
 - **No changes necessary**
If you do not need to change any of the parameters, choose *Next*.
In the screen *Selecting the Master Password* enter the password that should be created for the displayed accounts. The password must have at least 8 characters.
 - **Changes needed**
If you need to change one or more parameter values, select the appropriate check box and choose *Next*.
Depending on the selected parameters, different screens appear where you can adapt the new values.

When you have entered all the required values, SAPinst displays a summary screen to check your values.
6. Choose *Next* to start the installation and the screen *Start Installation* is displayed.
7. Choose *Start* to start the installation.

4 Post-Installation Steps

After SAPinst has finished successfully, you need to perform the following post-installation steps and checks.

4.1 Starting and Stopping the SAP System

You use this procedure to check that you can start and stop the SAP system after the installation with the SAP Microsoft Management Console (SAP MMC).

With a newly installed MMC you can start or stop installed SAP instances locally on the host that you are logged on to. If the MMC is configured for central system administration, you can start or stop the entire system from a single host.



Note

For more information, see ► <http://help.sap.com/nw2004s> ► *SAP NetWeaver Library* ► *SAP NetWeaver by Key Capability* ► *Solution Life Cycle Management by Key Capability* ► *Solution Monitoring* ► *Monitoring in the CCMS* ► *Microsoft Management Console: Windows* ◀.

Prerequisites

- You have logged on to the SAP system host as user <saps id>adm.
- You have checked the settings for VM parameters as described in **SAP Note** [723909](#).

Procedure

1. Start the SAP MMC on the SAP system host by choosing ► *Start* ► *Programs* ► *SAP Management Console* ◀.
2. Right-click the SAP system node and choose *Start* or *Stop* from the context menu.
All instances listed under the system node, will start or stop in the correct order.
3. If the SAP system is installed on multiple hosts (distributed system), you have the following options to start or stop your system:
 - You start or stop the SAP instances using the MMC on each host.
 - You add the remote instances to the MMC configuration to start or stop all instances from a single MMC.

For more information, see *Changing the Configuration of the MMC* in the SAP MMC documentation.

4.2 Running Deployment Tests

1. Be sure that the SAP System is up and running (see *Starting and Stopping the SAP System* [page 19]).
2. Start the J2EE engine by entering the following URL in your browser:
http://<hostname>:5<J2EEinstance_number>00
The J2EE engine *Start Page* should appear.
3. Select *Examples* and run at least the last example *Message Driven Bean Example* to test the SAP J2EE engine.

4.3 Starting the Visual Administrator

1. To start the Visual Administrator, run `\usr\sap\<SAPSID>\JC<xx>\admin\go.bat`.
The *SAP J2EE Engine – Administration* screen appears.
2. From the menu, choose ► *Connect* ► *Login* ◀.
Enter new login data.



Note

Port: P4Port

The following convention applies for the port: 5<J2EEinstance_number>04

For example, if your J2EE instance number is **00**, the P4port is **50004**.

3. Choose *Connect*.
4. Exit the tool.

4.4 Starting and Stopping the SAP Software Delivery Manager (SDM)

Starting the SDM

The installation automatically starts the *SDM Server*.

You can connect to the SDM server via remote GUI by running the command `RemoteGui.bat` from `\usr\sap\<SAPSID>\JC<xx>\SDM\program\`.

The login data are:

- Password: **sdm**
- Port: **5<J2EEinstance_number>18**

Stopping the SDM

Run `stopServer.bat` / `startServer.bat` from directory `\usr\sap\<SAPSID>\JC<xx>\SDM\program\`

4.5 Installing a Permanent SAP License

When you install your SAP system, a temporary license is automatically installed. This temporary license allows you to use the system for four weeks from the date of installation.

Before the temporary license expires, you can apply for a permanent license key from SAP.

For more information, see the SAP Library at ► <http://help.sap.com/nw2004s> ► *SAP NetWeaver Library* ► *SAP NetWeaver by Key Capability* ► *Solution Life Cycle Management by Key Capability* ► *SAP Licenses* ► *SAP License Key* ► *SAP License Key* ► *SAP Licensing Procedure* ◀.

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5 Additional Information

The following sections provides:

- list of *users that are created during the installation* [page [23](#)]
- information on how to *install the SQL Server Database software* [page]
- information on how to *uninstall the Developer Workplace* [page [23](#)]
- *SAPinst-specific information* [page [31](#)]

5.1 Users Created During the Installation

The following users are created during the installation:

User Type	User	Comment
Operating system user	<sapsid>adm	SAP system administrator
Operating system user	SAPService<SAPSID>	User to run the SAP system
Operating system user	sqd<dbsid>	MaxDB database administrator (that is, the owner of the database files)
Administrator	J2EE_ADMIN	This user's password is stored in secure storage. Therefore, whenever you change the administrator's password, you must also change the password in secure storage. For more information, see the SAP Java Documentation at http://help.sap.com/nw2004s ▶ <i>SAP NetWeaver Library</i> ▶ <i>SAP NetWeaver by Key Capability</i> ▶ <i>Application Platform by Key Capability</i> ▶ <i>Java Technology</i> ◀..
Guest	J2EE_GUEST	

5.2 Uninstalling the Developer Workplace

You can uninstall the entire Developer Workplace.

Uninstalling the SAP Developer Workplace with SAPinst

With this procedure you can uninstall the SAP NetWeaver AS Java and the database software.



Note

You cannot uninstall the *SAP NetWeaver Developer Studio* by using this procedure. To uninstall the Developer Studio separately, refer to the documentation *Installation Guide - SAP NetWeaver Developer Studio* at ► <https://service.sap.com/installnw2004s> ► *Installation* ◀.



Note

You need to have the original *SAP NetWeaver 2004s Developer Workplace DVD* because the downloaded stack version does not contain this feature.

1. Log on to your installation host as user with administrator rights.
2. Insert the *SAP NetWeaver 2004s SR2 Developer Workplace DVD* in your DVD drive or mount it locally.
3. Start SAPinst by double-clicking `sapinst.exe` from the following path:

<DVD drive>:\IM_WINDOWS_I386

SAPinst GUI starts automatically by displaying the *Welcome* screen.

4. In the *Welcome* screen, choose ► *Uninstall* ► *Uninstall – Developer Workplace* ◀.
5. Follow the instructions on the screens.
6. Define the SAPSID and DBSID that should be uninstalled.
7. If you decided to uninstall the DBSID, the following screens appear:

■ *Uninstallation of MaxDB database schema / database / software*

If you select *Drop the whole database*, the selected DBSID and its database schema will be deleted.

If you only select *Remove* for the database schema, the DBSID will not be deleted, but the database schema only.

■ *Uninstallation of MaxDB database schema / database / software*

This second dialog only appears, if you have selected *Drop the whole database* above.

Here you can define to uninstall the whole MaxDB software.

8. On the *Start Installation* screen, choose *Start* to perform the uninstallation.
Note that during the MaxDB uninstallation several pop-ups must be confirmed with OK.
If you have decided to uninstall the *SAP NetWeaver Developer Studio*, the *SAP NetWeaver Developer Studio Uninstall Wizard* appears.



Caution

Do not cancel the SAPinst GUI during the Developer Workplace uninstallation, as this leads to an unsuccessful uninstallation which cannot be continued with SAPinst.

5.3 Troubleshooting for Automated Basic Configuration Steps

You have to perform the following steps manually if either SAPinst fails or if you want to adjust existing parameters or set additional parameters.

5.3.1 SLD: Post-Installation Steps

You have to perform the following post-installation steps for the SLD:

- Maintaining SLD Connection Parameters
- Maintaining Server Settings in SLD
- Uploading SLD Content
- Configuring the SLD Gateway/Startup Bridge
- Maintaining the ABAP Connection
- Configuring the SLD Data Supplier Service

For more information on these steps see the *Post-Installation Guide – System Landscape Directory SAP NetWeaver 2004s* at ► <https://service.sap.com/sld> ► *sld* ◀.

5.3.2 Post-Installation Steps for Composite Application Framework (CAF)

You need to perform the following post-installation steps for Composite Application Framework (CAF) after SAPinst has finished.

5.3.2.1 Setting Up Roles

You have to create the roles `CAFAdmin` and `CAFUIAdmin` first. After role setup, you can assign the roles to the dedicated users.

Setting Up the Administrator Role

1. Launch the User Administrator tool within SAP NetWeaver:
<http://<host>:<port>/useradmin>
2. From the left pane, choose *Roles*.
3. To create the role `CAFAdmin`, select the *Create New* icon.
4. Enter `CAFAdmin` and a description (optional).
5. From *Available Actions*, select `com.sap.caf.rt.caf.aut` and choose *Add*. The action appears in the *Selected Actions* window.
6. Choose *Save*.
`CAFAdmin` appears in the *Roles* list. If not, enter the role name next to *New Search* and select the icon to search.



Note

By configuring `CAFAdmin`, you can permit configuration of data source assignments of entity services, as well as the import of external services.

7. To create the role `CAFUIAdmin`, repeat steps 3-6 above.

This allows the configuration of user interface (UI) components.

Assigning Users

1. Repeat steps 1-2 as described above.
2. From *Roles*, select the role you want to assign.
Multiple selections are allowed.
3. Select the icon *Assign User To...*
The *Assign User(s)* window appears.
4. Select the "plus" icon to add a user.
5. Enter the name of any piece of information about the user you want to select and choose *Search*.
6. Select the user from the list and choose *Select*.
7. Choose *Continue*.
The user is assigned the role.

5.3.2.2 Setting Configuration Parameters

You have to adjust general system configuration parameters for CAF.

For more information on these steps, see the *CAF-GP Configuration Guide* in the SAP Library at <http://help.sap.com/nw2004s> ▶ *SAP NetWeaver Library* ▶ *Technology Consultant's Guide* ▶ *Developing, Configuring, and Adapting Applications* ▶ *Creating Composite Applications* ◀.

5.3.3 Post-Installation Steps for Adobe Document Services (ADS)

You need to perform the following post-installation steps for Adobe Document Services (ADS) after SAPinst has finished.

5.3.3.1 Checking the IIOP Service

The startup mode of the service `iiop` must be set to `always`. To verify this, you have to check and if required modify special settings on the central instance host.

Procedure

1. Start the configuration tool of the J2EE engine:
Run `<Drive:>\usr\sap<SAPSID>\<instance_name>\j2ee\configtool.bat`
The *J2EE Engine – Config Tool* screen appears.
2. In the left frame, open the tree ▶ *Cluster data* ▶ *Global dispatcher configuration* ▶ *Services* ◀.
3. Choose service `iiop`.
4. The field *Startup mode* in the right frame must be set to `always`.

5. Choose *Apply changes*.
6. Repeat the steps 2 to 5 for the following path: ► *Cluster data* ► *Global server configuration* ► *Services* ◄.

5.3.3.2 Checking Java Startup Properties

You have to check if the Java startup property for Adobe document services is set. To do so, you have to check and if required modify special settings on the central instance host.

Procedure

1. Start the configuration tool of the J2EE engine:
Run `\usr\sap\<SAPSID>\<instance_number>\j2ee\configtool.bat`
The *J2EE Engine – Config Tool* screen appears.
2. Select ► *cluster data* ► *instance_<IDxxx>* ► *server_<IDxxx>* ◄.
3. In the right frame, check if the following line exists in the *Java Parameters* area of the tab *General*:
`-Dorg.omg.PortableInterceptor.ORBInitializerClass.com.sap.engine.services.ts.jts.ots.PortableInterceptor.JTSInitializer`
If the line does not exist, add the line to this section.

5.3.3.3 Entering Credentials

As the installation asks for a Adobe Credentials file during the installation, you need to have this file available during the installation.

Get the Adobe Credential file as described in [SAP Note 736902](#).

5.3.3.4 Creating a User for Basic Authentication

To ensure secure access, you must create a user and assign the security role `ADSCaller` to this user. The `ADSCaller` security role was created during the SAP system installation.



Caution

Do not assign this security role to users other than the system user that you will use to access Adobe document services.

You can create this user in the J2EE Engine or in the SAP NetWeaver usage type AS ABAP depending on the J2EE installation settings for the SAP User Management Engine (UME). You create this user in the usage type AS ABAP when the UME is configured against the SAP NetWeaver usage type AS ABAP back-end. In this case you also have to create a role `ADSCallers` in the usage type AS ABAP and assign the user `ADSUser` to this role.

Procedure

Creating a User in AS Java

1. Log on to the Visual Administrator of the J2EE Engine as follows:
 - a) On your central instance host, change to the following directory:
`\usr\sap\<SAPSID>\<instance_name>\j2ee\admin`
 - b) Double-click `go.bat`.
2. On the *Cluster* tab, choose ► *Server <x>* ► *Services* ► *Security Provider* ⚡.
3. On the *User Management* tab, choose *Create Group* to create a group called `ADSCallers`, if the group does not exist. In the dialog box that follows, enter the name and choose *OK*.
4. Choose *Create User*.
The *Create New User* dialog box appears.
5. In the *User name*, *Password*, and *Confirm password* fields, enter `ADSUser` for the user name and enter a password.
6. Choose *Tree* in the right panel.
7. In the *User Tree*, choose `ADSCallers` and then *OK*.
8. Choose *Tree* in the left panel.
9. Select ► *ADSCallers* ► *ADSUser* ⚡.
10. In the *Authentication* field, choose *No password change required*.
11. On the *Policy Configurations* tab, in the *Components* area, choose `com.adobe/AdobeDocumentServices*AdobeDocumentServicesAssembly.jar`.
12. On the *Security Roles* tab, choose `ADSCaller` from the *Security Roles* list.
13. In the *Mappings* field, choose *Add*, which is assigned to *Users*.
The *Choose Users or Groups* dialog box appears.
14. Choose *Tree*.
15. In the *User Tree*, under the *ADSCallers* group, select the *ADSUser* that you just created and choose *OK*.
The new user is assigned to the *ADSCaller* security role.

Creating a User in AS ABAP

1. Log on to the SAP system as a user with administrator rights, in the client that is used for the UME authentication.
2. Choose ► *Tools* ► *Administration* ► *User Maintenance* ► *User* ⚡ (transaction SU01).
3. Enter `ADSUser` as user name and choose *Create*.
4. Choose *system user* as type for `ADSUser`.
5. Choose ► *Tools* ► *Administration* ► *User Maintenance* ► *Role Administration* ► *Roles* ⚡ (transaction PFCG).
6. Create a role `ADSCallers` (no authorizations required).
7. Activate the role.
8. Assign the user `ADSUser` to this role.
9. Log on to the Visual Administrator of the J2EE Engine as follows:

- a) On your central instance host, change to the following directory:
`\usr\sap\<SAPSID>\<instance_name>\j2ee\admin`
- b) Double-click `go.bat`.
10. On the *Cluster* tab, choose ► *Server <x>* ► *Services* ► *Security Provider* ◄.
11. On the *User Management* tab, choose *Tree* in the left panel.
12. In the *User Tree*, make sure that the user you created in ABAP appears under the *ADSCallers* group.
13. On the *Policy Configurations* tab, in the *Components* area, select
`com.adobe/AdobeDocumentServices*AdobeDocumentServicesAssembly.jar`.
14. On the *Security Roles* tab, choose *ADSCaller* from the *Security Roles* list.
15. In the *Mappings* area, choose *Add*, which is assigned to *Users*.
 The *Choose Users or Groups* box appears.
16. Choose *Tree*.
17. In the *User Tree*, under the *ADSCallers* group, select the *ADSUser* you just created and choose *OK*.
 The new user is assigned to the *ADSCaller* security role.

5.3.3.5 Creating a Web Service Destination

1. Log on to the Visual Administrator of the J2EE engine as follows:
 - a) On your central instance host, change to the following directory:
`\usr\sap\<SAPSID>\<instance_name>\j2ee\admin`
 - b) Double-click `go.bat`.
2. On the *Cluster* tab, choose ► *Server <x>* ► *Services* ► *Web Services Security* ◄.
3. Choose ► *Web Service Clients* ► *sap.com* ► *tc~wd~pdfobject* ► *com.sap.tc.webdynpro.adsproxy.AdsProxy*Config-Port_Document* ◄.
4. From the *Authentication* list, choose *BASIC*.
5. In the *User* and *Password* fields, enter **ADSUser** as user name and a password.
6. Choose *Save*.
7. Activate the authentication data by navigating to ► *Services* ► *Deploy* ◄.
8. Choose *Application*.
9. In the tree, choose *sap.com/tc~wd~pdfobject*.
10. Choose *Stop Application*.
11. To restart the application, choose *Start Application*.

**Note**

If the Adobe document services and the Web Dynpro runtime environment are not installed on the same J2EE Engine, you have to configure a *Custom URL*. For more information, see:

► <https://help.sap.com/nw2004s> ► *SAP NetWeaver Library* ► *SAP NetWeaver by Key Capability* ► *Application Platform by Key Capability* ► *Java Technology* ► *Administration Manual* ► *Administration/Configuration of Web Dynpro Runtime Environment* ► *Web Dynpro-Specific URL Parameters* ► *Configuring the Web Dynpro Runtime Environment*. ◀

5.3.3.6 Creating a HTTP Destination

You have to create a HTTP destination to the back-end where the Adobe document services are installed.

Procedure

1. Start the Visual Administrator of the J2EE Engine as follows:
 - a) On your central instance host, change to the following directory:


```
\usr\sap\<SAPSID>\<instance_name>\j2ee\admin
```
 - b) Double-click `go.bat`.
2. On the *Cluster* tab, choose ► *Server <x>* ► *Services* ► *Destinations* ◀.
3. Under *Runtime*, choose *HTTP*. The information that applies to a selected destination is displayed in the right pane.
4. In the navigation panel, choose *New*.
5. In the dialog box that follows, enter the name **FP_ICF_DATA_<SAPSID>** – where <SAPSID> specifies the back-end where the Adobe document services are installed – for the new destination and choose *OK*.
6. As the target URL, enter the message server (or Web Dispatcher) of the SAP NetWeaver AS ABAP in the URL field:

`http://<J2EE_host>:<J2EE_port>`

and for SSL:

`https://<J2EE_host>:<J2EE_port>`

**Note**

To display the host name of your SAP NetWeaver AS ABAP, log on your ABAP system and call transaction SICF. In the main menu, choose ► *Go to* ► *Port Information* ◀. The `HTTP_port` is specified under *Services*.

7. Select the authentication method to use for the connection, and enter the parameters for the authentication method in the corresponding fields.
 - In the *Username* field, enter **ADS_AGENT** (must exist as service user in usage type AS ABAP).
 - In the *Password* field, enter the same password as given for the AS ABAP service user `ADS_AGENT`.

8. If the connection is to use HTTPS, specify how the connection should handle SSL server authentication.
9. Save your settings.

5.3.4 Post-Installation Steps for Enterprise Portal (EP)

You need to perform the following post-installation steps for Enterprise Portal (EP) after SAPinst has finished.

5.3.4.1 Copying CMS_MAPPING Properties

Copy the `cms_mapping.properties` file from the source directory `/usr/sap/<sid>/JCxx/j2ee/cluster/server<x>/apps/sap.com/irj/servlet_jsp/irj/root/WEB-INF/portal/system/pcd/Migration/mapping/` into the target directory `/usr/sap/<sid>/SYS/global/pcd/Migration/mapping/`.



Note

If the target directory does not exist, you have to create it as well.

5.3.4.2 Renaming InitialPermissions.xml.template

1. Go to the directory `/usr/sap/<id>/JCxx/j2ee/cluster/server<x>/apps/sap.com/irj/servlet_jsp/irj/root/WEB-INF/portal/system/xml/ac1`
2. Rename the file `initialPermissions.xml.template` to `initialPermissions.xml`.

5.3.4.3 Renaming initialPermissionsKMC.xml.template

1. Go to the directory `/usr/sap/<sid>/JCxx/j2ee/cluster/server<x>/apps/sap.com/irj/servlet_jsp/irj/root/WEB-INF/portal/system/xml/ac1`.
2. Rename the file `initialPermissionsKMC.xml.template` to `initialPermissionsKMC.xml`.

5.4 SAPinst-specific Information

5.4.1 Interrupted Installation with SAPinst

The SAP system installation might be interrupted for one of the following reasons:

- An error occurred during the dialog or processing phase:
SAPinst does not abort the installation in error situations. If an error occurs, the installation pauses and a dialog box appears. The dialog box contains a short description about the choices listed in the table below as well as a path to a log file that contains detailed information about the error.
- You interrupted the installation by choosing *Exit* in the SAPinst menu.

The following table describes the options in the dialog box:

Option	Definition
<i>Retry</i>	SAPinst retries the installation from the point of failure without repeating any of the previous steps. This is possible because SAPinst records the installation progress in the <code>keydb.xml</code> file. We recommend that you view the entries in the log files, try to solve the problem and then choose <i>Retry</i> . If the same or a different error occurs again, SAPinst displays the same dialog box again.
<i>Stop</i>	SAPinst stops the installation, closing the dialog box, the SAPinst GUI, and the GUI server. SAPinst records the installation progress in the <code>keydb.xml</code> file. Therefore, you can continue the installation from the point of failure without repeating any of the previous steps. See the procedure below.
<i>Continue</i>	SAPinst continues the installation from the current point.

Procedure

This procedure describes the steps to restart an installation, which you stopped by choosing *Stop*, or to continue an interrupted installation after an error situation.

1. Log on to your remote host as a user who is a member of the local administrators group.
2. Insert the Installation Master DVD in your DVD drive.
3. Enter the following commands at the Windows command prompt:
`cd <DVD drive>:\IM_WINDOWS<platform>`
`sapinst.exe`
4. From the tree structure in the *Welcome* screen, select the installation service that you want to continue and choose *Next*.



Note

If there is only one component to install, the *Welcome* screen does not appear.

The *What do you want to do?* screen appears.

5. In the *What do you want to do?* screen, decide between the following alternatives and confirm with *OK*.



Alternative	Behavior
<i>Run a new Installation</i>	SAPinst does not continue the interrupted installation. Instead, it moves the content of the old installation directory and all installation-specific files to the backup directory. Afterwards, you can no longer continue the old installation. For the backup directory, the following naming convention is used: <log_day_month_year_hours_minutes_seconds> (for example, log_01_Oct_2003_13_47_56).
<i>Continue old installation</i>	SAPinst continues the interrupted installation from the point of failure.

5.4.2 Starting SAPinst on the Remote Host (Optional)

You can use this procedure to install your SAP system on a **remote** host. In this case, SAPinst and the GUI server run on the remote host, and SAPinst GUI runs on the local host. The local host is the host from which you want to control the installation with SAPinst GUI.

Prerequisites

- You have *installed the Java Development Kit* [page 13].
- Both computers are in the same network and can ping each other.
To test this:
 - Log on to your remote host and enter the command `ping <local host>`.
 - Log on to the local host and enter the command `ping <remote host>`.

Procedure

1. Log on to your remote host as a user who is a member of the local administrators group.
2. Insert the Installation Master DVD in the DVD drive on your remote host.
3. Open a command prompt, and enter the following commands:
`cd <DVD drive>:\IM_WINDOWS_<platform>`
`sapinst.exe -nogui`
SAPinst now starts and waits for the connection to the SAPinst GUI. You see the following at the command prompt:
guiengine: no GUI connected; waiting for a connection on host <host_name>, port <port_number> to continue with the installation
4. Start SAPinst GUI on your **local** host, as described in *Starting SAPinst GUI Separately* [page 33].

5.4.3 Starting SAPinst GUI Separately (Optional)

You use this procedure to start SAPinst GUI separately. You might need to start SAPinst GUI separately in the following cases:

- You have logged off from SAPinst.

If you logged off during the installation and you later want to reconnect to the still running installation, you can start SAPinst GUI separately.

- You want to perform a remote installation.

If SAPinst GUI runs on a **different** host than SAPinst and the GUI server, you also have to start SAPinst GUI separately.

Prerequisites

You have installed the *Java Development Kit* [page 13].

Procedure

1. Log on as a member of the local administrators group.
2. Insert the SAP installation DVD into your DVD drive.
3. To change to the relevant directory enter the following command:
`cd <DVD drive>:\IM_WINDOWS<platform>`
4. Start SAPinst GUI in one of the following ways:
 - If SAPinst GUI runs on the same host as SAPinst and the GUI server, enter the following command **without** additional parameters:
`startinstgui.bat`
SAPinst GUI uses as default the local host.
 - If SAPinst and the GUI server runs on a different host than SAPinst GUI (remote installation), enter the following command **with** additional parameters:
`startinstgui.bat -host <host_name>`
`<host_name>` is the host name of the installation host.



Note

- If you enter the command without additional parameters, SAPinst GUI uses as default the local host. SAPinst GUI starts and tries to connect to the GUI server and SAPinst. As SAPinst and the GUI server are running on another host, SAPinst GUI cannot connect and the *SAP Installation GUI Connection* dialog appears.
In this case, enter the host name where SAPinst is running and choose *Log on*.
The first dialog of the installation appears and you can perform the remote installation from your local host.
- For a list of options to start SAPinst GUI, change to the same directory as your SAPinst executable and enter the command `startinstgui.bat -h`.

5.4.4 Troubleshooting with SAPinst

This section tells you how to proceed when errors occur during the installation with SAPinst.

If an error occurs, SAPinst:

- Stops the installation

- Displays a dialog informing you about the error

Procedure

1. To view the log file, choose *View Logs*.
2. If an error occurs during the dialog or processing phase, do either of the following:
 - Try to solve the problem
 - Abort the installation with *Exit*
For more information, see *Interrupted Installation with SAPinst* [page 31].
 - Continue the installation by choosing *Retry*.
3. Check the log and trace files of the GUI server and SAPinst GUI in the directory `%userprofile%\sdtgui\` for errors.
4. If SAPinst GUI does not start, check the file `sdtstart.err` in the current `%userprofile%` directory.
5. If SAPinst GUI aborts during the installation without an error message, restart SAPinst GUI as described in *Starting SAPinst GUI Separately*.
6. Ignore error messages in the SDM logs that state that software components are not available.
For more information, see **SAP Note** [828978](#).

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