

# SAP NetWeaver Rapid Installer 2.1: Quick Guide

This document is a streamlined version of the *SAP NetWeaver Rapid Installer Guide 2.1*. It should be used by those, who are both familiar with mySAP ERP backend systems, and have extensive experience in installing software on either Windows- or Unix-based systems.

In the four steps of this installation process, you:

1. **Check** your system, if all required hardware and software prerequisites are fulfilled.
2. **Install** the selected SAP NetWeaver components using the SAP NetWeaver Rapid Installer wizard.
3. **Configure** your newly-installed SAP NetWeaver components and - as needed - the connected backend systems.
4. **Validate** proper system operation.

## 1. Check

Be sure that your computer meets the following prerequisites:

### Hardware:

- Disk space
 

<b>SAP NetWeaver Rapid Installer Software Components</b> (part of SAP Netweaver 2004 Stack 10) including database	12 GB
<b>TREX</b>	
TREX software	450 / 630 MB (Windows / Sun Solaris)
TREX index	Depends on the number and type of documents to be indexed. For details see TREX installation guide.
TREX queues	$\frac{3}{4}$ of the disk space required by the indexes
- RAM
 

minimum 3 GB
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- CPU
 

2 x 2 GHz minimum (Windows)
2 x 1 GHz minimum (Sun Solaris)

### Software:

- Server/Database
 

Microsoft Windows Server 2000/2003, 32-bit US English version, with IIS 5.0/6.0 and SQL Server 2000 Enterprise Edition, with Service Pack 3 or higher and the latest hotfix	For details see section <i>Installing the Database Software</i> in the guide <i>SAP Web Application Server Installation on Windows: MS SQL Server</i> . See also SAP Note 600027.
or	
Sun Solaris SPARC 8 or 9 64-bit operating system. Oracle 9.2.0.4 64-bit database (NLS character set UTF8 and J2EE user installed) will be installed – if not already available – using the SAP NetWeaver Rapid Installer wizard.	For details see section <i>Installing the Oracle 9.2.0 Database Software</i> in the guide <i>SAP Web Application Server Installation on UNIX: Oracle</i> .
or	
Microsoft Windows Server 2000/2003, 32-bit US English version, with IIS 5.0/6.0 and Oracle 9.2.0.4 32-bit database (NLS character set UTF8 and J2EE user installed)	For details see section <i>Installing the Oracle Database Software</i> in the guide <i>SAP Web Application Server Java 6.40 on Windows: Oracle</i>
- Sun JDK
 

J2SE 1.4.2_06 32-bit (Solaris 64-bit) JDK with latest patch	Can be downloaded from the Sun site at <a href="http://java.sun.com/j2se/1.4.2/download.html">http://java.sun.com/j2se/1.4.2/download.html</a> → <i>Download J2SE SDK</i>
Java Cryptography Extension (JCE) Unlimited Strength Jurisdiction Policy Files 1.4.2	Solaris 64-bit requires that you first install 32-bit. For JCE you need to download the file <i>jce_policy-1_4_2.zip</i> .

- SAP JAVA Cryptographic Toolkit      You need the following Software Deployment Archive:  
*tc\_sec\_java\_crypto\_signed\_fs\_lib.sda*

Can be downloaded from the SAP Service Marketplace at <http://service.sap.com/download> → SAP Cryptographic Software → SAP JAVA Crypto Toolkit (J2EE Engine as of Release 6.30).
- *Services* file      The file *services* has to already exist and to include the following parameter definitions for each backend system to which you want to set up a connection:  
  
*sapgw<instance#> <port>/tcp*  
*sapms<SID> <port>/tcp*

Path of file *Services*:  
**Sun Solaris:**  
*../etc*  
**Windows 2000:**  
*C:\WINNT\system32\drivers\etc*  
**Windows 2003:**  
*C:\WINDOWS\system32\drivers\etc*
- mySAP ERP 2004 ESS/MSS scenario      To use the included business packages for Employee Self-Service and Manager Self-Service you need:  
  
Primary Backend System: **SAP - ERP 2004 Support Package 6**  
Other Prerequisites: **SAP BW 3.52** (and higher)
- mySAP CRM scenario      To use the included CRM business packages you need:  
  
Primary Backend System: **SAP - CRM 4.0 Support Package 6**  
Other Prerequisites: **SAP BW 3.52, R/3 4.6C** (and higher)

#### Prerequisites for Server/Database:

- Microsoft Windows 2000/2003      **(IIS) 5.0/6.0**  
To access business applications through the Web server and for Search and Classification (TREX), Microsoft Internet Information Server (IIS) version 5.0/6.0 or later must be installed. The ASP.NET application server should also be installed with IIS.

**Authorization**  
The Windows user that performs the RI 2.0 installation must be authorized for example to act as part of the operating system, to increase quotas (Windows 2000), to adjust memory quotas for a process (Windows Server 2003) or to replace a process-level token.  
To assign these rights to a user, choose the Windows start menu → *Settings* → *Control Panel* → *Administrative Tools* → *Local Security Policy*.

**JAVA\_HOME and PATH environment variables**  
Make sure that your JAVA\_HOME environment variable is set to the directory in which you installed the latest available JDK 1.4.2.
- Sun Solaris SPARC      All Oracle executables are located in the following directory structure:  
*<oracle root>/<oracle SID>/920\_64*

**JAVA\_HOME and PATH environment variables**  
Make sure that your JAVA\_HOME environment variable is set to the directory in which you installed the latest available JDK 1.4.2.

**Checking user's home directory**  
The RI installation procedure creates an operating system user for the J2EE engine. The name of this user is *<sid>adm* (for example: *j2eadm*), and that user's home directory is created at the default location of the current Solaris system. This default location can be queried with  
**useradd -D** (check for the value of *basedir* in the output).  
The user's home directory will be created under *<basedir>/<sid>adm*.  
If a different behavior is required for a particular system (for example because the default "basedir" is reserved for use by the Solaris automounter), you can change the default value as root user before starting the installation process with  
**useradd -D -b <new\_basedir>**
- MS SQL      When installing the MS SQL Server 2000 database for an SAP system, we recommend that you select "Binary order for use with the 850 Multilingual Character Set" (code page cp850) for "Collation Settings". This means that all new databases and table columns will be created with this collation setting. (see also SAP Note 600027).

## Additional Prerequisites for the Client PC:

- SAP NetWeaver scenario where Adobe forms are used

You are using one of the following Web browsers: **Microsoft Internet Explorer 5.5 or 6.0, Netscape 7.0**. Refer also to SAP Note 711093.

If you want to run a SAP NetWeaver scenario where Adobe forms are used – for example in a Self Service Scenario – you need to set up **Adobe Acrobat Reader 7.0** (or higher).

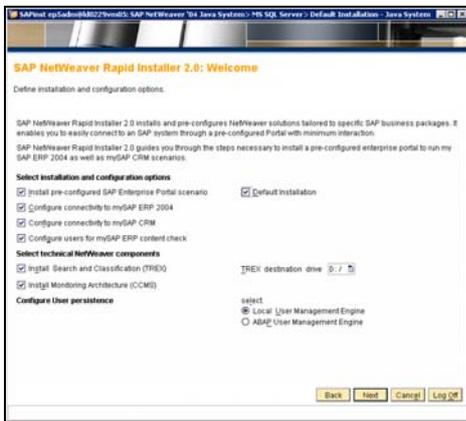
Some of the MSS/ ESS scenarios require the **Active Components Framework** on the client PC. See SAP Note 766191 for details.

Installation procedure:

- Copy and run the Active Components Framework installer. You need administrative rights to do this.
- Restart your machine to complete the Active Components installation process.

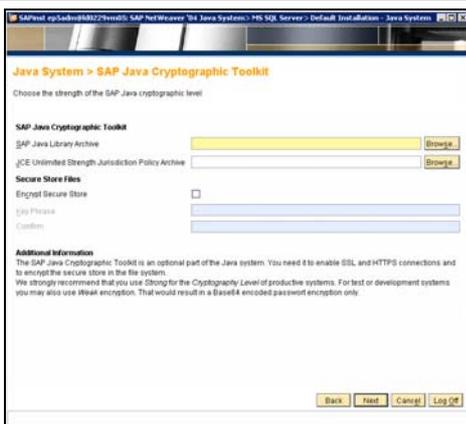
## 2. Install

1. Insert the SAP NetWeaver Rapid Installer DVD into the proper drive of your machine.
2. Change to folder RAPIDINSTALLER and open the corresponding folder of your operating system (*NT* or *Solaris*).
3. Navigate to file `sapinst.exe` or `sapinst` and execute it.
4. Double-click *Default Installation – Java System*.  
For Windows NT operating system, you have to open the corresponding folder for your database system first.
5. Follow the on-screen instructions to perform the installation.



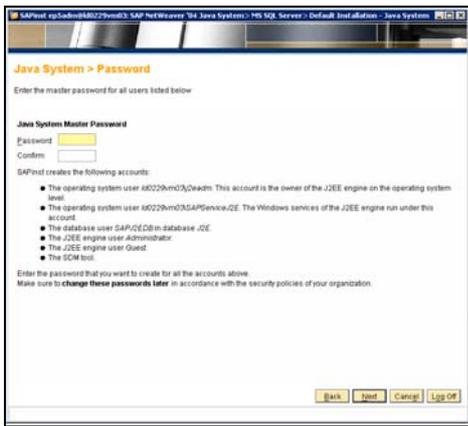
Define installation and configuration options:

- Select the SAP NetWeaver Rapid Installer components you want to install.
- Select the applications to which you want to connect.
- Select the technical SAP NetWeaver components you want to install.
- Select the settings for user persistence configuration.



To setup the SAP Java Cryptographic Toolkit:

- Enter the path to the *SAP Java Library Archive*.
- Enter the path to the *JCE Unlimited Strength Jurisdiction Policy Archive*.
- Select option *Encrypt Secure Store* and enter and confirm a password.

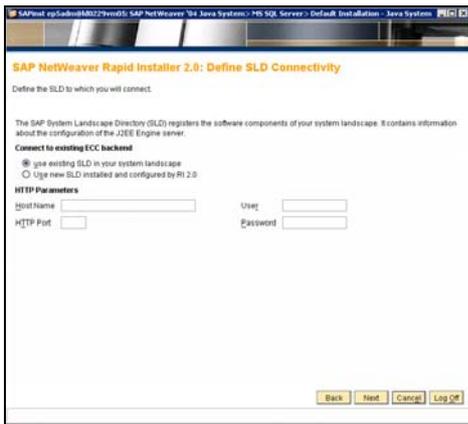


For a default installation:

- Choose a general password which will be used for different SAP NetWeaver user accounts created during the installation.



Do not forget to change these passwords later in accordance with the security policies of your organization.

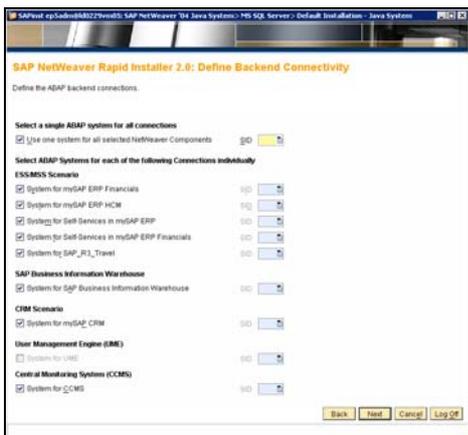


Define the SLD connectivity:

- Select which System Landscape Directory (SLD) will be used to connect to your SAP backend systems.

You can decide between two options:

- The SAP NetWeaver Rapid Installer routine will install and prepare a new SLD on the installation machine.
- SAP NetWeaver Rapid Installer will use the SLD of an existing system landscape on your side.



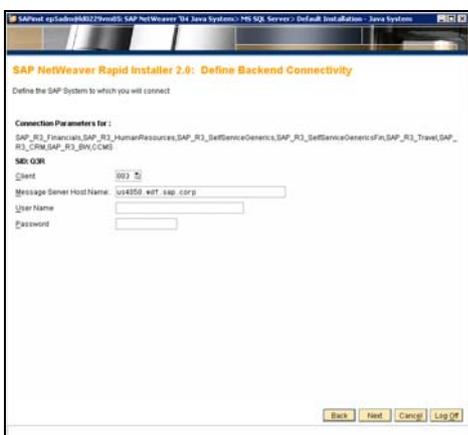
Define the backend connectivity:

- Select at least one ERP system to setup the backend connection.

This step is necessary for mapping system parameters to real systems.

You can decide between two options:

- You can define one single backend system which will be used for all backend connections of your installation scenario.
- You can define multiple backend systems. In this case, you need to specify for each connection a corresponding backend system.

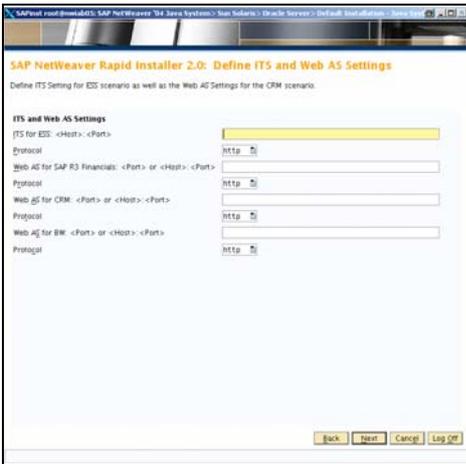


- Enter additional parameters to complete the setup of the backend connection.

In the case you have selected multiple backend systems, this step is repeated for each system.

- Enter the (fully qualified) host name of the message server, a user name, and the corresponding password to log onto this backend system.

You have to use an existing user account.

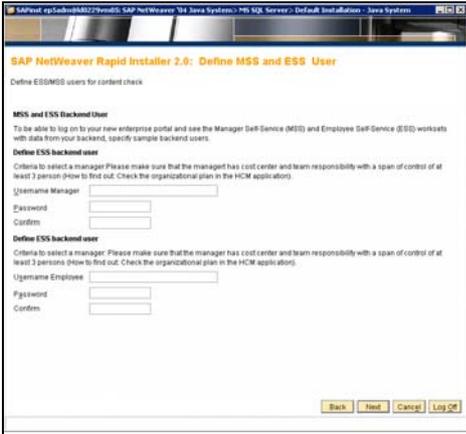


Define the SAP Internet Transaction Server (ITS) and the Web AS connection parameters of the corresponding backend system.

In the case, you have selected an installation scenario without backend connectivity, this step is skipped.

- Enter the host parameters and select the type of transfer protocol (*http* or *https*).

Enter the host name in form **<host name>:<port>**, where **port** is the port of the relevant SAP Web Application Server. To find the port number, use the backend transaction **SMICM** and choose *Goto* → *Services* to display the list of port numbers.



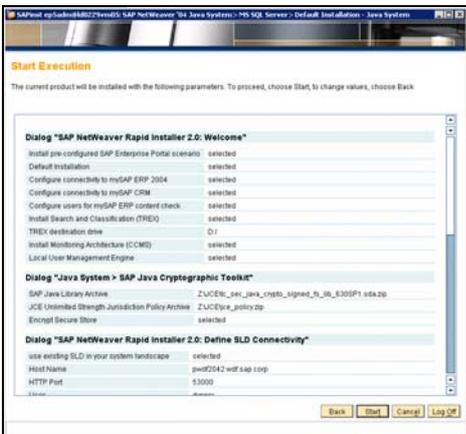
To run an ESS/MSS scenario in SAP Enterprise Portal directly after the RI setup, you need to specify corresponding users.

- Enter a manager's and employee's user name and the corresponding password.



You have to use an existing user account. These users must have been assigned to a manager and employee role in the backend system.

This step is **skipped** if you have **not** selected the installation option *Configure Users for mySAP ERP Content Check*.



Review all the parameters.

- If needed, click *Back* to return to previous screens and change your settings.
- When you are ready to perform the SAP NetWeaver Rapid Installer wizard, click *Start*.

When the installation is complete, you can logon to SAP Enterprise Portal.

## 3. Configure

### 1. Logging Onto the Portal

- a. Open your Microsoft Internet Explorer browser.
- b. Enter `http://<fully_qualified_portal_server_and_domain_name>:<http_port_of_J2EE>/irj/portal` in the Internet browser URL field.  
The syntax for the port number is: `<port#>=5<instance#_j2eeserver>00`
- c. Choose *Enter*.
- d. Enter  
using a local User Management Engine: `User ID = j2ee_admin, Password = <master_pw>`  
using an ABAP User Management Engine: `User ID = j2ee_admin, Password = <backend_pw>`
- e. Click *Log on* and wait for the portal to load.

### 2. Insert portal certificates to establish single sign-on:

- a. On the mySAP ERP system, start the *Trust Manager* with transaction `STRUSTSSO2`.
- b. Choose the arrow to the left of the folder *System PSE*.
- c. In the certificate area, choose *Import Certificate*.
- d. Choose the *File* tab and enter the path of the portal's *verify.der* file.
- e. Set the file format to *DER coded* or *Binary* and confirm.
- f. In the Trust Manager, choose *Add to PSE*.
- g. Choose *Add to ACL*, to add the portal server to the ACL list.
- h. In the dialog box that appears, enter the portal's system ID and client.  
The other values are taken from the certificate.
- i. Save your entry.

### 3. Configuring the CCMS Backend System

- a. In the portal, navigate to *System Administration* → *System Configuration* → *System Landscape*.
- b. In the Portal Content Catalog, open folder *Systemlandscape* with an alternate mouse click and choose *Open* → *Object*.
- c. Select property category *Connector*.
- d. Enter the application host, client and system number of the CCMS backend system.
- e. Save your entries.

### 4. Upload CCMS transports to designate central monitoring systems:

To perform the CCMS transport:

- a. Import the CCMS transport K\* and R\* files which are located in folder R3\_IMPORT of the SAP NetWeaver Rapid Installer installation directory on the DVD to directory `/usr/sap/trans` of the CCMS backend system.  
Copy the R\* files to CCMS backend system directory `/usr/sap/trans/data`.  
Copy the K\* files to CCMS backend system directory `/usr/sap/trans/cofiles`.
- b. Use transaction `STMS` code and press *F5*. Click on the corresponding backend system, choose *Extras* → *Other Requests* → *Add* and select the files you have copied.
- c. Select *Ctrl+F11* to import these packages.

To create a portal CCMS user for the monitoring system:

- d. Use transaction `SU01` to create user `j2ee_admin`.
- e. Use transaction `PFCG` to assign user `j2ee_admin` to the role `CCMS_BASIC`.

To create a portal CCMS user for the monitoring system:

- f. In the portal, navigate to *CCMS* → *CCMS Admin*.
- g. Create group *RAPID* and activate it.
- h. Mark group *RAPID*, select *Edit Group* and afterwards *Add Monitor*. Choose monitor *NetWeaver Rapid Installer* from the drop-down list *CCMS Monitor Set*.

### 5. Restarting the Web Application Server

- a. Stop the SAP Web AS J2EE System with the SAP Management Console (Windows) or with command `stopsap` (Sun Solaris).
- b. Restart the SAP Web AS J2EE System with the SAP Management Console (Windows) or with command `startsap` (Sun Solaris).

## 6. Obtain a license for the SAP Web Application Server

- a. In the Visual Administrator, choose *Server<SID>* → *Services* → *Licensing Adapter*. You must enter the specified data to order a new license key.
- b. Request the license on the SAP Service Marketplace [service.sap.com/support](http://service.sap.com/support): Software Distribution Center → License Key. SAP will send you the official license key.
- c. Install the license key using the SAP Web AS Visual Administrator tool.

## 7. Create SAP CRM Groups and Assign Roles

- a. Choose *User Administration* → *Groups* and create a group for SAP CRM.
- b. Choose *User Administration* → *Roles*.
- c. Search for the group and click *Edit*.
- d. Search for the appropriate role, select it and choose *Add*.
- e. Choose *Save*.
- f. Repeat the procedure for each group and role that needs to be created.

## 8. Configuring Adobe Document Services

For details on configuring Adobe document services, see Chapter 3.3.2.3 and Chapter 4 in the configuration guide *Adobe Document Services*.

## 9. Review System Landscape Settings

- a. Choose *System Administration* → *System Configuration* → *System Landscape* and edit the object in the Property Editor (selecting *Show All* in *Property Category* list).
- b. For SAP CRM and SAP BW, in the *WAS Host name* field, enter the host name in the form `<hostname>:<port>` (even though only the `<hostname>` is entered). The `<port>` is the ID of the corresponding Web Application Server (Web AS).

# 4. Validate Your System

1. To check SAP CRM backend connectivity, log onto portal as registered user and check that the appropriate mySAP CRM portal iViews are displayed.
2. To check ESS/MSS scenario, log onto the portal with the user account you entered for the content check and check that the appropriate ESS and MSS scenarios are running.
3. To check CCMS, log onto portal as user `j2ee_admin` and check if you can access the Database Alert Monitor through the portal iViews.
4. To test if TREX is running correctly, use the following URL from your system browser:
  - Windows:  
`http://portalhost:3<trex_instance_number>05/TREXHttpServer/TREXISAPIExt.dll?CMD=PING`
  - Sun Solaris:  
`http://portalhost:3<trex_instance_number>05/TREX?CMD=PING`
5. For troubleshooting SAP NetWeaver Rapid Installer, refer to SAP Note 811524.

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