

Installing Oracle 9.2 for SAP Enterprise Portal 6



SAP Enterprise 6.0 SP2



Document version 2.0

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| Icon | Meaning |
|---|----------------|
|  | Caution |
|  | Example |
|  | Note |
|  | Recommendation |
|  | Syntax |

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

Typographic Conventions

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

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UNIX: Installing Oracle 9.2 for SAP Enterprise Portal 6.0

This document describes the installation of Oracle9i Release 2 (9.2) software on UNIX for SAP Enterprise Portal. Scripts specifically programmed to meet the needs of SAP Enterprise Portal 6.0 SP2 form the basis of the installation procedures.

Following the instructions in this guide ensures that your database installation is properly set and configured for the portal.

For information on installing SAP Enterprise Portal 6.0 SP2, go to SAP Service Marketplace, at <http://service.sap.com/ep60>, and then navigate to *Documentation & More* → *Installation*.

Purpose

Use this document to install Oracle 9i Release 2 (9.2) software, and to create the database tables required for both portal platform, and Content Management (CM). Follow the procedures in this guide for installing the default databases in the following cases:

- If you want to install only the Oracle9i Release 2 (9.2) software and the default databases for SAP Enterprise Portal 6.0.
- If you want to install the Oracle9i Release 2 (9.2) software and the default databases for SAP Enterprise Portal 6.0, for Portal Platform, CM & collaboration together.
- If you want to install the Oracle9i Release 2 (9.2) software and the default database for CM to a different target directory, or on a machine other than the one on which the portal database exists.



Read the SAP Notes relating to Oracle9i Release 2 (9.2) software installation. These notes contain recent installation and patch information.

You can find the SAP Notes in SAP Service Marketplace (<http://service.sap.com/notes>).

List of Related SAP Notes

| SAP Note Number | Title |
|-----------------|--|
| 668312 | Central Note – Installing EP 6.0 SP2 |
| 539 921 | Current patch set for Oracle 9.2.0 |
| 509314 | Downloading Oracle patches from SAPNet |
| 355776 | Information on installing the current patchset |
| 540021 | Find the required patches |
| 306408 | Install the patch |
| 601965 | Using the Oracle Patch Utility Patch |



Overview: Installing Oracle Software via SAPInst

You must install the Oracle software through SAPInst, a Java-based graphical user interface that enables your database installation to be configured with the default tables and indexes for the portal platform and Content Management (CM).

You can upgrade the existing schemas installed for SAP Enterprise Portal 6.0 SP1, to SP2 through SAPInst GUI on your existing Oracle instance.

Before upgrading existing schemas to SAP Enterprise Portal 6.0 SP2, make sure that you are running Oracle9i Release 2 (9.2.0.3). For more information on applying the patch to upgrade Oracle9i 9.2.0.1, see the section on [Installing Oracle9i Patchset \[Page 25\]](#).

If previously you installed and configured Oracle9i Release 2 (9.2.0.3) for the Enterprise Portal 6.0 SP1, then upgrade the existing database schemas for SAP Enterprise Portal 6.0 SP2.

The following sections provide detailed information for installing Oracle9i Release 2 (9.2) software, and creating the default table spaces using SAPInst GUI:

- [Planning \[Page 9\]](#)
- [Preparations \[Page 11\]](#)
- [Setting Up Oracle9i Release 2 \(9.2\) through SAPInst \[Page 18\]](#)
- [Installing Oracle9i Release 2 \(9.2\) Software \[Page 21\]](#)
- [Post-Installation \[Page 26\]](#)

During installation, SAPInst GUI gets the required values for configuring your system for the database.



Planning

On Which Machine to Install

In a production environment, you install the database separately on a dedicated machine so that it can be used in a cluster of portals. However, you can install both the Portal platform, and the database locally on a single server for development and testing purposes.

Note that when you setup both the database and the Portal platform on the same machine, the system's performance is affected by the number of users accessing it.

Requirements

The following table lists the hardware, disk space, and operating system required by the host machine for the Oracle9i Release 2 (9.2) software for SAP Enterprise Portal.

| Requirement Type | Requirement |
|-----------------------|--|
| Hardware Requirements | <ul style="list-style-type: none"> • Disk Space: Verify that a minimum of 8000 MB of local hard disk space is available. • RAM: A minimum of 512 MB of RAM. Swap disk space must be equal to the system's physical memory, or 1GB, whichever is greater. • CD-ROM device |
| Software Requirements | <ul style="list-style-type: none"> • Operating System: Solaris 64-Bit version 8 (5.8), HP-UX 11.0/11i, AIX 5.2 To verify the version of the operating system, use the following command: <code>\$ uname -a</code> • Partitioning: Partition your system in a way that allows you to install Oracle software on different partitions other than that of the operating system. The advantage is that you perform a new and complete update, or reformat of the operating system partition when needed, without losing your Oracle installation and data. See the Oracle 9i Administrator's Reference on Oracle Flexible Architecture (OFA), the disk and mount setup that Oracle recommends. |

For detailed information on planning and requirements for Oracle9i Release 2 (9.2) software, refer to the *Oracle9i Installation Guide, Release 2 for Unix Systems*.

See also:

[Troubleshooting \[Page 27\]](#)



Preparations

To prepare for the Oracle database server installation, do the following:

- Create a directory with appropriate user credentials for the Oracle database server. See [Oracle Directory and User \[Page 11\]](#).
- Prepare the host machine for SAPinst installation. See [Preparing SAPinst Installation \[Page 11\]](#).
- Make sure that the DISPLAY and PATH environment variables are set correctly. See [Verifying the Oracle9i Installation \[Page 13\]](#).
- Verify that the host is ready for installation by running the **System Analyzer**. Find this topic in the guide *Installing Portal Platform, CM & Collaboration*.



Oracle Directory and User

Procedure

- Before you install a new Oracle9i 9.2 instance through SAPinst, you must create a directory called **/oracle**.

The owner of this directory must always exist. For this reason, you can create the directory with the operating system user, as root.



If you delete or remove the owner of this directory, SAPinst fails to find the owner and the group during installation, so it stops the installation and displays an error message for a user ID and a group ID.



Preparing SAPinst Installation

The Java-based SAPinst graphical user interface, SAPinst GUI, requires a Java Development Kit (Java™ 2 SDK, Standard Edition). SAPinst GUI requires the same JDK version as the SAP Web Application Server; however, JDK is not part of the SAP shipment.

Download the latest SUN JDK version and patches suitable for your UNIX system at:
<http://java.sun.com/j2se/>

If you are using SAPinst GUI on a host where SAPinst has never run before, do the following:

1. Check that your Java Runtime Environment variable, JAVA_HOME, is set to <JAVA_HOME>. For more information, see the section *Checking your Java Runtime Environment*.
2. Check if there are any *jar* files from an XML parser tool (like Xerces or Xalan that you might have installed) in the JRE ext directory. This leads to a SAPinst GUI start-up error. For more information, see the section *Checking your JRE ext Directory*.

Checking Your Java Runtime Environment

A Java Runtime Environment must be installed on every host that runs SAPinst GUI during installation.



You can run SAPinst GUI stand-alone from a separate UNIX host. This enables you to perform the installation on a remote host while monitoring the installation with SAPinst GUI from a local host. See [Controlling a SAPinst Installation from a Remote Machine \[Page 28\]](#).

Procedure

1. Make sure that your `$JAVA_HOME` environment variable is set to the directory where JDK is installed, `<JAVA_HOME>`.

Setting the environment variable differs from shell to shell:

- In TCSH and CSH environments use:
`setenv JAVA_HOME /opt/j2sdk_1_3_1_09`
- In KSH, SH and BASH (Korn and Bourne (again) shells):
`export JAVA_HOME=/opt/j2sdk_1_3_1_09`

Version numbers may vary, and so may the directory names.



In Solaris, the directory is usually as shown above, whereas HP usually installs a simpler name, such as `/opt/java1.3`

2. Make sure that `$JAVA_HOME/bin` is defined in the system path, at the beginning of the `$PATH` environment variable.

Checking Your JRE ext Directory

No `*.jar` files from an XML parser tool (like Xerces or Xalan that you might have installed) are permitted in the JRE `ext` directory. This leads to a SAPinst GUI start-up error.

To check the JDK `ext` directory:

1. Log on to the host on which you intend to run the SAPinst GUI.
2. Check whether there are already `<parser_name>.jar` files (`xerces.jar`, for example) in your `ext` directory. The default path is:

```
<JAVA_HOME>/jre/lib/ext
```

3. If you find any *.jar* files, rename them (*xerces.xxx*, for example)



Do **NOT** forget to rename the files back to their original names after the installation procedure is complete.



Disable the Network Information System before SAPinst GUI performs user configuration settings on the local machine.



Verifying the Oracle9i Release 2 (9.2) Software Installation

You install Oracle9i Release 2 (9.2) software after SAPinst GUI extracts all the necessary files, sets and configures the UNIX environment for the Oracle database server.

It is recommended that you check the environment variable settings on the local machine before installing the database.

Verifying Environment Variable Settings

Make sure that the DISPLAY and PATH environment variables are set correctly before installing the Oracle9i Release 2 (9.2) software.

To verify and set the environment variable:

1. Log on to the system with your Oracle user *ora<dbsid>* and verify that the DISPLAY environment variable is set.
For example: `DISPLAY=<Host_name>:0.0`
2. Make sure that the Oracle user *<dbsid>* has the following settings in the user environment:
 - ORACLE_HOME
Required if it has not been defined, otherwise you get an error message and setup stops.
 - ORACLE_BASE
\${ORACLE_HOME}
Holds Oracle Inventory.
 - ORACLE_SID
The database instance name *<dbsid>* is generated from this value, if specified.
If it has not been defined, you get an error message and setup stops.
 - oracle_inst_group
Group of the installing user. This group will have permissions to the Oracle inventory.
 - oracle_home_name
Name of the Oracle Home. If it has not been defined, it will be generated out of the ORACLE_SID. If even this is not specified, it will be generated as a hash value out of ORACLE_HOME.



HP-UX path environment variable is SHLIB_PATH.

Verifying and Setting Permissions for Oracle User

Set the `umask` parameter to `022` for the Oracle user to ensure that group and others have permissions on the installed files.

To check the Oracle user's authorization, proceed as follows:

1. Log on to your system with your Oracle user `ora<dbSID>`.
2. Enter the following commands:

```
touch /oracle/write_test  
rm /oracle/write_test
```
3. If your Oracle user (`ora<dbSID>`) does not have permissions, log on to your system with the user `root` and enter the command:

```
chmod 775 /oracle
```
4. Enter the following commands as oracle user `<dbSID>`: `umask`
If the `umask` command does not return the value `022`, then set it for the Oracle user by adding the following line to the `.profile`, or `.login` file:
Set `umask: umask 022`
5. Verify the `umask` setting using the same command as in step 4.



Installing Oracle 9i

The installation of the Oracle database server for the portal requires the following steps:

1. Extract the database files and install them. This is done in two steps:
 - a. Provide parameter values and extract Oracle installation files using `SAPinst`. See [Running SAPinst \[Page 15\]](#). The following step should start automatically in a different window. `SAPinst` remains unfinished in the background.
 - b. Use the extracted files to install Oracle database server. See [Installing Oracle9i 9.2 Software \[Page 21\]](#).
2. Install the Oracle Patchset. See [Installing Oracle9i Patchset \[Page 25\]](#).
3. Return to the window where `SAPinst` runs and finish the installation. If you cannot continue, see [Continuing an Interrupted Installation \[Page 27\]](#).



Running SAPinst

Use

This procedure describes how to run SAPinst to install the Oracle9i Release 2 (9.2) software on supported UNIX platforms.

This section describes a local installation. For a remote installation using SAPinst, see [Controlling a SAPinst Installation from a Remote Machine \[Page 28\]](#).

Prerequisites

- Make sure that your `DISPLAY` and `JAVA_HOME` environment variables are set correctly.
- Read the information on [how SAPinst works \[Page 17\]](#) before proceeding.

Procedure

1. Log on to your installation host as a user with *super user (root)* permission.
2. Mount the Installation CD.



Mount the CD locally. Do **not** use Network File System (NFS).

3. Create an installation directory for SAPinst with full permissions (777). The directory you create must be under a subdirectory, and not directly under the root directory. For example: ***/subdir/sapinst***. To create the directory, enter:

```
mkdir /<subdir>/<installation directory>
chmod 777 <installation directory>
```



Each installation instance must have its own separate installation directory to prevent loss of previously generated log and command files.



Sun Solaris only:

Do **not** use `/tmp` and its subdirectories because they are removed when the system is rebooted. For more information, see the documentation *SAP Software on UNIX: OS Dependencies*, section *<Your operating system>: Preparing the Installation*.

4. Change to the installation directory:
cd <installation directory>

5. Enter:

```
Installation CD/SAPINST/UNIX/<OS>/sapinst
```

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



- If the directory < **installation directory** > does not contain any files from a previous installation, a new installation starts. Otherwise, the previous installation is continued.
 - The above command starts SAPinst from the CD in directory <installation directory>. If you want the SAPinst executable to be copied to that directory, see below: ***Extracting SAPinst Executable Files***.
 - If a message appears about ports being used, see [SAPinst Ports \[Page 29\]](#).
6. Follow the instructions on your screen. See [Input Parameters for Extracting Installation and Database Files \[Page 18\]](#).

After you have maintained all input parameters, **SAPinst** starts the installation and displays installation progress during the processing phase. If the installation was successful, you see the message: The installation finished successfully.



If problems occur, see [Troubleshooting the SAPinst Installation](#).

Extracting SAPinst Executable Files

If you want the SAPinst executable to be copied to <SAPinst_INSTDIR>, instead of executing the command *sapinst* from the CD, do the following:

1. Enter the following command:

```
Installation CD/SAPINST/UNIX/<OS>/sapinst -extract
```

2. Start SAPinst from your installation directory with the following command:

```
./sapinst
```



How SAPinst Works

Upon executing the command, SAPinst extracts files pertaining to the specific installation to the directory from which you executed the “sapinst” command.

If there are no write permissions to this directory, the SAPinst control files are automatically extracted to a temporary directory.

You can run SAPinst in one of the following manners:

- Call the command file on the CD from a specific directory in your local host (recommended).

When you install a component with SAPinst for the first time, SAPinst stores important log and command files specific to the installation, in the installation directory which you create before starting the installation, (see instructions below). This directory is referred to as SAPinst installation directory.

- Make sure that you use a separate installation directory for each installation you perform. Otherwise, you might lose previous log and command files stored in the SAPinst installation directory.
 - If you wish to use an existing directory for an installation, execute the *newinst.cmd* file in the installation directory before you run *sapinst* again. By doing so, you make sure that the log and command files of the installed instance are moved to a subdirectory and the installation of each new instance has its own log and command files.
- Execute the “sapinst” command from the CD.

If you run SAPinst from the installation CD, the SAPinst control files are copied to a temporary installation directory, typically under the TMP directory. In this case, if SAPinst stops before completing the installation, or if you need the log files for maintenance, they might not be available. Therefore, it is **not** recommended to execute SAPinst from the CD.

- Extract the SAPinst executable files to a local directory, placing the installation command in that local directory, enabling execution from there, and not the CD.

SAPinst does not install its own executable files on the local host. If you wish to do so, to avoid using the CD for future use of SAPinst, add the clause “-extract” when running SAPinst, as explained below. Although performance may improve if you run SAPinst from the local host, it is recommended to run it as explained in the first bullet.



Input Parameters for Extracting Installation and Database Files

Provide the following values to enable SAPinst to extract the Oracle9i software installation and database files:

| Screens | Description and Values |
|---|--|
| Enterprise Portal 6.0 Installation Options | <ol style="list-style-type: none"> 1. From the <code>Install</code> or <code>Upgrade?</code> menu select <code>New Installation</code>. 2. From the <code>Choose an installation option</code> menu select <code>Database Server</code>. 3. Click <code>Next</code>. |
| Database Installation > Oracle Instance Properties | <p>Create a <code>New Oracle</code> instance or use an <code>Existing</code> instance.</p> <ul style="list-style-type: none"> • If you select <code>New</code>, specify a name for the new instance, or accept the default name <code>POR</code> and then define the path for the SAP DBA tools. For example: <code>/usr/sap/dbatools</code> • If you select <code>Existing</code>, specify the name for the existing Oracle instance you want to use, and then define the path for the SAP DBA tools. <p> Before installing only the schemas on an <code>EXISTING</code> Oracle instance, apply the proper patch set, Oracle9i (9.2.0.3), to the existing Oracle installation.</p> <p>For more information on installing patches, refer to <i>Installing Oracle9i Patchset</i>.</p> <p>Click <code>Next</code>.</p> |
| Database Installation > Define Schema Parameter Values | <p>Select <code>Next</code> to accept the default schema names for the portal, <code>PCD</code>, and for <code>CM</code>, <code>WCM</code>. You can specify a new name for each schema.</p> <p>Specify passwords for the user of each schema, and select <code>Next</code>.</p> <p> Later, during installation of Enterprise Portal, you are required to define the same schema names.</p> |

| | |
|------------|---|
| CD Browser | <p>Specify the source of the Oracle installation CDs sequentially. SAPinst GUI copies the content of all the CDs to the local drive:</p> <p></p> <p>On HP operating system, there are 4 Oracle RDBMS CDs to browse, whereas on Solaris there are 3 Oracle RDBMS CDs.</p> <ol style="list-style-type: none">1. Click in a box under CD Name in the CD Browser screen; an arrowhead appears.2. Click the ellipses (...), and specify the location of the Oracle CDs.3. Optionally, click in a box under Copy Package To, and select the directory you created for the Oracle installer. <p>SAPinst GUI copies the Oracle Installation files from the source to the destination before installation.</p> <p>If you choose <code>Next</code>, the default values are used.</p> |
|------------|---|

| | |
|--|--|
| <p>Oracle Database Installation > Database Parameters</p> | <p>Specify the following:</p> <ul style="list-style-type: none"> • Database Administrator(OS user): Name of the UNIX operating system super user for the Oracle directory. The default is <code>orapor</code>. <p> Later, use this name to access the Oracle directory, and to install the Oracle9i software.</p> <ul style="list-style-type: none"> • Password of Database Administrator (OS User): Enter the password for the super user (UNIX account) that can start and stop Oracle database. <p> If you selected Existing and you are installing schemas on an existing Oracle instance, the rest of the fields in this screen, are not available.</p> <ul style="list-style-type: none"> • Password of Database User SYS: Enter the password for the user SYS. You can use the default. • Password of Database User SYSTEM: Enter the password for the user SYSTEM. You can use the default. • Database Instance RAM: Specify memory size for use by the Oracle instance. The minimum value is 512 MB. • Listener Name: Use the default, <i>LISTENER</i>. • Listener Port: Use the default, <i>1527</i> <p>Click Next.</p> |
| <p>Database Installation > Physical Layout</p> | <p>Displays the source, amount of disk space needed for each directory, and the destination directory for deploying Oracle installation.</p> <p>Specify the drives in which to locate the various folders for Oracle software installation.</p> <p> Distribute the Oracle datafiles, rollback and mirror files according to SAP recommendation, over several local hard disks.</p> <p>Although you can locate all the files on one disk only, it is not recommended.</p> <p>Click Next .</p> |

| | |
|--------------------------------|---|
| Summary and Start Installation | <p>The <code>Installation Progress</code> screen displays the status of the installation.</p> <p>SAPinst GUI automatically runs Oracle Universal Installer (OUI).</p> <p>If SAPinst fails to run OUI, you can start it manually.</p> <p>See Installing Oracle9i 9.2 Software [Page 21].</p> <p> Install the relevant Oracle patch set after SAPinst completes.</p> |
|--------------------------------|---|

If errors occur, see [Continuing an Interrupted Installation. \[Page 27\]](#)



Installing Oracle9i 9.2 Software

This section explains how to use the Oracle Universal Installer for the installation of the Oracle9i Release 2 (9.2) software for SAP Enterprise Portal.



Make sure that SAPinst had changed the owner and group of the oracle directory before running the Oracle installer. For example, change owner to `ora<sid>` and the group to dba.

The Oracle universal installer had to be started automatically, if it did not, start it manually:

To start the Oracle Universal Installer (OUI):

- Open another window, and start the Oracle Universal Installer with your Oracle user, `ora<dbSID>`, for example; `orapor`. This is the default user created by SAPinst GUI:

```
/oracle/stage/920_64/Disk1/SAP/RUNINSTALLER
```



The Oracle installation command is case sensitive and must be upper case only; using lower case results in a different Oracle installation.

The following section provides instructions for installing Oracle9i on the different UNIX supported platforms. See:

- [Oracle Universal Installer Parameters for AIX \[Page 24\]](#)
- [Oracle Universal Installer Parameters for Solaris \[Page 23\]](#)
- [Oracle Universal Installer Parameters for UX-HP \[Page 22\]](#)



After installing Oracle9i Release 2 (9.2), you must install the relevant patch to upgrade the database server version to Oracle9i Release 2 (9.2.0.3). For detailed information see [Installing Oracle 9i Patch \[Page 25\]](#).



Oracle Universal Installer Parameters for UX-HP

Procedure

To install Oracle9i Release 2 (9.2) software, in the Oracle Universal Installer (OUI), provide the following values in each screen.

| Prompt or Condition | Action |
|---|--|
| <i>File Locations Destination...</i> | <p>Check that the variable <code>\$ORACLE_HOME</code> is correctly set (that is, it points to the new <code>ORACLE_HOME</code>).</p> <p>Source:</p> <ul style="list-style-type: none"> The path to the Oracle source software is displayed. Do not change the path. <pre>/oracle/stage/920_64/Disk1/stage/products.jar</pre> <p>Destination</p> <p>Name:</p> <ul style="list-style-type: none"> Enter the name of the Oracle Home directory. SAP recommends the name <code><SAPSID><ORACLE_VERSION></code>, for example, <code>ABC920</code>. <p>Optionally, you can keep the default Oracle home directory name. In both cases, make a note of this name for further use. This name is referred to as <code><Oracle Dir></code> in this document.</p> <p>Path:</p> <ul style="list-style-type: none"> Points to Oracle home directory: <code>ORACLE/<DBSID>/<ORACLE-Version></code>, for example; <code>/oracle/ABC/920_64</code> Check that the variable <code>\$ORACLE_HOME</code> is correctly set (that is, it points to the new <code>ORACLE_HOME</code>). Make sure that the relevant directory is empty. Continue by choosing Next. <p>Tip: During the installation, ignore the progress bar. It always indicates 100%.</p> <p>Make sure that the relevant directory is empty. Continue by choosing Next.</p> |
| When you run the OUI for the first time on this host, a dialog box appears. | Execute the file <code>/tmp/orainstRoot.sh</code> as user <code>root</code> , and confirm the dialog box. |
| <i>Available Product Components</i> | Confirm the default selections by choosing Next . |
| <i>Java Development Kit (JDK)</i> | Specify the JDK directory location. Click Next . |

| | |
|--|--|
| <p>When the setup completes, a dialog box appears.</p> | <p>Execute the file <code>\$ORACLE_HOME/root.sh</code> with the user <code>root</code>, and confirm the dialog box by choosing <code>OK</code>. Then continue by choosing <code>Next</code>.</p> <div style="text-align: center;">  </div> <p>When the installer asks you if you want to migrate existing databases or create a database, choose <code>No</code>.</p> |
|--|--|

The Installer finishes, reporting that the Oracle installation was successful.

Due to an error in the Oracle installer, you cannot choose `EXIT` at this point. Instead, close the installer window using its window menu or by other operating system means.

Confirm the dialog box that appears.



Oracle Universal Installer Parameters for Solaris

Procedure

Enter the following values in each window to install Oracle9i Release 2 (9.2) software:

| | |
|--|---|
| <p><i>File Locations</i></p> | <p>Source:</p> <ul style="list-style-type: none"> The path to the Oracle source software is displayed. Do not change the path. <pre style="margin-left: 40px;">/oracle/stage/920_64/Disk1/stage/products.jar</pre> <p>Destination</p> <p>Name:</p> <ul style="list-style-type: none"> Enter the name of the Oracle Home directory. SAP recommends the name <code><SAPSID><ORACLE_VERSION></code>, for example, <code>ABC920</code>. <p>Optionally, you can keep the default Oracle home directory name. In both cases, make a note of this name for further use. This name is referred to as <code><Oracle Dir></code> in this document.</p> <p>Path:</p> <ul style="list-style-type: none"> Points to Oracle home directory: <code>ORACLE/<DBSID>/<ORACLE-Version></code>, for example; <code>/oracle/ABC/920_64</code> Check that the variable <code>\$ORACLE_HOME</code> is correctly set (that is, it points to the new <code>ORACLE_HOME</code>). Make sure that the relevant directory is empty. Continue by choosing <code>Next</code>. <p>Tip: During the installation, ignore the progress bar. It always indicates 100%.</p> |
| <p><i>Available Product Components</i></p> | <p>Confirm the default selections by choosing <code>Next</code>.</p> |

| | |
|---|--|
| <p><i>Java Development Kit (JDK)</i></p> | <p>Specify the location of the JDK. Choose Next.</p> |
| <p><i>When Setup completes, a dialog box appears.</i></p> | <p>Execute the file <code>\$ORACLE_HOME/root.sh</code> with the user <code>root</code>, and confirm the dialog box by choosing OK. Then continue by choosing Next.</p> <div style="text-align: center;">  </div> <p>When the installer asks you if you want to migrate existing databases or create a database, choose No.</p> |
| <p><i>End of Installation</i></p> | <p>The Installer finishes, reporting that the Oracle installation was successful. Due to an error in the Oracle installer, you cannot choose EXIT at this point. Instead, close the installer window using its window menu or by other operating system means.</p> <ul style="list-style-type: none"> • Confirm the dialog box that appears. |



Oracle Universal Installer Parameters for AIX

Procedure

Enter the following values in each window to install Oracle9i Release 2 (9.2) software:

| | |
|--|---|
| <p>File Locations</p> | <p>Source:</p> <ul style="list-style-type: none"> • The path to the Oracle source software is displayed. Do not change the path. <p style="padding-left: 40px;"><code>/oracle/stage/920_64/Disk1/stage/products.jar</code></p> <p>Destination</p> <p>Name:</p> <ul style="list-style-type: none"> • Enter the name of the Oracle Home directory. SAP recommends the name <code><SAPSID><ORACLE_VERSION></code>, for example, <code>ABC920</code>. <p>Optionally, you can keep the default Oracle home directory name. In both cases, make a note of this name for further use. This name is referred to as <code><Oracle Dir></code> in this document.</p> <p>Path:</p> <ul style="list-style-type: none"> • Points to Oracle home directory: <code>ORACLE/<DBSID>/<ORACLE-Version></code>, for example; <code>/oracle/ABC/920_64</code> • Check that the variable <code>\$ORACLE_HOME</code> is correctly set (that is, it points to the new <code>ORACLE_HOME</code>). • Make sure that the relevant directory is empty. • Continue by choosing Next. <p>Tip: During the installation, ignore the progress bar. It always indicates 100%.</p> |
| <p><i>Available Product Components</i></p> | <p>Confirm the default selections by choosing Next.</p> |

| | |
|---|--|
| <i>Java Development Kit (JDK)</i> | Specify the location of the JDK. Click Next . |
| When the setup completes, a dialog box appears. | <p>Execute the file <code>\$ORACLE_HOME/root.sh</code> with the user <code>root</code>, and confirm the dialog box by choosing OK. Then continue by choosing Next.</p> <p style="text-align: center;"></p> <p style="text-align: center;">When the installer asks you if you want to migrate existing databases or create a database, choose No.</p> |
| End of Installation | <p>The Installer finishes, reporting that the Oracle installation was successful.</p> <p>Due to an error in the Oracle installer, you cannot choose EXIT at this point. Instead, close the installer window using its window menu or by other operating system means.</p> <ul style="list-style-type: none"> • Confirm the dialog box that appears. |



Installing Oracle9i Patchset

After installing the Oracle9i Release 2 (9.2) software, you must apply the current patch set, Oracle9i Release 2 (9.2.0.3), to upgrade your Oracle database for SAP Enterprise Portal 6.0.

Prerequisites

- See **SAP Note 539921** for the number of the current patchset, and **SAP Note 355776** for extra information on installing the current patchset.
You need only install the latest Oracle patchset.
- Check **SAP Note 540021** to find the required patches if you installed Oracle9i Release 2 (9.2.0)

Procedure

To install the current Oracle9i (9.2.0.3) Patchset:

1. Log on at the operating system level as the `ora<dbid>` user.
2. Follow the instructions in **SAP Note 539921** to download the current patchset.
3. Install this patchset using the Oracle Universal Installer.
You do not have to run any SQL scripts at this time.
4. Return to the SAPinst window and finish the installation. This step is mandatory for the database server to be ready for the portal.



Post Installation

Use your Oracle user, *ora<dbsid>*, to test your connection to the database. If the connection succeeds without error messages, the database software installation was successful. Perform a systematic check for a successful installation by:

- [Checking the connection to the database \[Page 26\]](#).

For descriptions of error messages, refer to the *Oracle9i Installation Guide, Release 2 for Unix Systems* on Oracle Website.

- Checking the Portal Platform and CM databases. This is done by verifying schemas existence on the Oracle database server.
- Make sure that the Oracle database server is up and running before continuing with the portal/CM installation.



Checking the Database Connection

Open a session to use SQLPLUS. You have to set the environment with the following Oracle specific environment variables before using SQLPLUS:

- ORACLE_SID
- ORACLE_HOME
- ORACLE_BASE
- LD_LIBRARY_PATH



HP-UX path environment variable is SHLIB_PATH.

Change the logon user to your Oracle user, *ora<sys>* before logon onto sqlplus. When you are correctly logged onto the Oracle database, the prompt displays: `SQL>`

To check connection to the database:

Check that *ora<dbsid>* can connect to the database:

- At the shell prompt, open SQLPLUS session/shell on the server, using the command:

```
sqlplus /nolog
```

```
SQLPLUS> connect / as sysdba
```

To exit sqlplus:

- Enter the command: **Exit**. It terminates your session in SQLPLUS.



Troubleshooting

If an error occurs during the **dialog phase**, SAPinst stops the installation and displays a dialog that informs you about the error.

- You can view the log file by choosing *View Logs*, and then abort the installation by selecting *OK*. After, try to solve the problem.

If an error occurs during the **processing phase**, SAPinst stops the installation, and displays a dialog that informs you about the error.

1. You can view the log file by choosing *View Logs*, and then try to solve the problem.

For information on how to resolve processing issues, see *SAPinst Troubleshooting Guide* at: <http://service.sap.com/sapinstfeedback>.

2. Continue the installation by choosing *Retry*.

Abort the installation by choosing *OK*.

SAPinst Stops Installation

Before you install a new Oracle9i 9.2 instance through SAPinst, you must create a directory called */oracle*. The owner of this directory must always exist, for this reason, you can create the directory with the operating system user, as root.

If you delete or remove the owner of this directory, SAPinst fails to find the owner and the group, so it stops the installation and displays an error message for a user ID and a group ID.

The owner *ora<dbSID>* that you define for the Oracle directory in SAPinst GUI, overrides the owner of the existing Oracle directory.



Continuing an Interrupted Installation

As SAPinst does not abort the installation in error situations, you can continue an interrupted installation regardless of whether you cancelled the installation:

Prerequisites

You solved the problem that caused the error situation.

Procedure

- You have **not** canceled the installation

The error dialog box is still displayed and SAPinst is waiting for your input. Proceed as follows:

- In the error dialog box, choose *Retry*.
- SAPinst now retries the installation step.

- You **have** canceled the installation

The installation was aborted and now you want to continue it. Since SAPinst records the installation progress in the *keydb.xml* file, it can continue the installation from the failed step without repeating previous steps.

You have two alternatives, these are described below.

Continuing the Installation

If you did not canceled SAPinst GUI process, do the following:

1. Make sure that there are no java processes running SAPinst GUI. To obtain a list of java processes, enter the following command:

```
ps -ef | grep java
```

You can identify running SAPinst GUI java processes in the command line substring "...java -cp JAR/instgui.jar..." of the output.

2. Make sure that all environment variables are set as described in the corresponding installation documentation.
3. Start SAPinst from your <SAPinst_INSTDIR> with:
`/sapinst`

Starting New Installation

If you canceled the SAPinst GUI process, do the following.

You have the following alternatives:

- Restart the installation from installation CD
 - Start SAPinst from CD again as described in the corresponding installation documentation.
SAPinst deletes all files in your installation directory and asks you if you want to overwrite any existing installation directory.
- Prepare the new installation manually (installation CD is not needed)
 - In your <SAPinst_INSTDIR> run the following command to reset the installation and to start from the beginning:

```
/newinstall
```

Note that the old log files are stored in the subdirectory <SAPinst_INSTDIR>/log_<timestamp>.



Controlling a SAPinst Installation from a Remote Machine

Use

You can run the SAPinst GUI in standalone mode to perform a remote installation.

This enables you to install an SAP system on another host (the remote host) while monitoring the installation with the SAPinst GUI on your local Windows or UNIX computer (the local host).

The overall process is as follows:

1. Install SAPinst on your remote host and SAPinst GUI on your local host.
2. Start the SAPinst server on your remote host.
3. Start SAPinst GUI on your local host.
4. Perform the installation using SAPinst GUI.

For details see the appropriate procedures below.

Prerequisites

- Make sure that you have performed the preparation activities for your local host (SAPinst GUI host) and your remote host.

For more information, see “[Preparations \[Ext.\]](#)” in this documentation.

- Both computers are on the LAN 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>`.
- SAPinst ports – Make sure that SAPinst ports are free. Otherwise, define other ports and use the commands accordingly. See [SAPinst Ports \[Page 29\]](#).

Procedures

Perform the following procedures:

1. [Starting SAPinst on the Remote Host \[Page 31\]](#)
2. [Starting SAPinst GUI on the Local Host \[Page 30\]](#)



SAPinst Ports

SAPinst uses the ports 21212 and 21213 during the installation for communication with the SAPinst GUI. If one of these ports is already used by another service, SAPinst aborts the installation with an appropriate error message.

In this case, you must start SAPinst or the SAPinst GUI from the command prompt as follows:



In the following commands, `<free_port_number>` defines an unused port number. Since SAPinst also uses `<free_port_number> + 1`, this must also be free.

For example, if you enter 60000 as `<free_port_number>`, SAPinst uses the ports 60000 and 60001.

UNIX:

From the installation directory, call the command from the installation CD as follows:

```
<sap installation CD>/sapinst/unix/<os>/<command>
```

Where `<command>` is one of the following:

- SAPinst: `./sapinst SAPINST_DIALOG_PORT=<free_port_number>`
- SAPinst GUI: `./sapinstgui.sh -port <free_port_number>`
- Start SAPinst GUI `./startinstgui.sh -port <free_port_number>`

Windows:

From the installation directory, call the command from the installation CD as follows:

```
<sap installation CD>:\sapinst\NT\i386\<command>
```

Where **<command>** is one of the following:

- SAPinst: `sapinst SAPINST_DIALOG_PORT=<free_port_number>`
- SAPinst GUI: `sapinstgui.bat -port <free_port_number>`
- Start SAPinst GUI `startinstgui.bat -port <free_port_number>`



Starting SAPinst GUI on the Local Host

Use

You use this procedure to run SAPinst GUI on the **local** host when you want to control the SAPinst installation from a machine other than the installation machine. The local host is the host where you want to control the installation with the SAPinst GUI.

Procedure

Your Local Host Runs on a Windows Platform

1. Log on to your local Windows host.
2. Insert the installation CD into your CD drive.
3. Enter the following command from the Windows command prompt:

```
<CD drive>:\SAPinst\NT\<OS>\startinstgui.bat
```

The SAPinst GUI now gets started and connects automatically to the host that is waiting for a connection. The *Welcome* screen is displayed.



If prompted, enter the following parameters:

- *Hostname* : Enter the host name of the remote computer.
 - *Port*: Enter the same port number as SAPinst uses on the remote host.
4. Perform the installation from your local host.

Your Local Host Runs on a UNIX Platform

1. Log on to your local UNIX host as user `root`.
2. Mount your installation CD.
3. Change to the following directory:

```
<Installation CD>/SAPINST/UNIX/<OS>
```

4. Enter:

```
startInstGui.sh
```

The SAPinst GUI now gets started and connects automatically to the host that is waiting for a connection. The *Welcome* screen is displayed.



If prompted, enter the following parameters:

- *Hostname*: Enter the host name of the remote computer.
 - *Port*: Enter the same port number as SAPinst uses on the remote host.
5. Perform the installation from your local host.



Starting SAPinst on the Remote Host

Use

You use this procedure to run SAPinst on the **remote** host when you want to control it from a machine other than the installation machine.

Procedure

Your Remote Host Runs on a Windows Platform

1. Log on to your remote host as a user who is a member of the local administration group.
2. Insert the installation CD in your CD drive.
3. Create <SAPinst_INSTDIR> and change to this directory.
4. Enter the following command from the Windows command prompt:

```
<CD drive>:\SAPinst\NT\<OS>\sapinst.exe SAPINST_NO_GUISTART=true
```

SAPinst starts without the SAPinst GUI and waits for the connection to the SAPinst GUI.
5. Start the SAPinst GUI on your local host, as described in [Starting SAPinst GUI on the Local Host \[Page 30\]](#).

Your Remote Host Runs on a UNIX Platform

1. Log on to your remote host as user `root`.
2. Mount the installation CD.
3. Create <SAPinst_INSTDIR> and change to this directory.
4. Enter:

```
<Installation CD>/SAPINST/UNIX/<OS>/sapinst  
SAPINST_NO_GUISTART=true
```

SAPinst starts without the SAPinst GUI and waits for the connection to the SAPinst GUI. The following message is displayed:

```
guiengine: waiting for connect...
```
5. Start the SAPinst GUI on your local host, as described in [Starting SAPinst GUI on the Local Host \[Page 30\]](#).