Creating DB Schemas on Windows for SAP Enterprise Portal

SAP Enterprise Portal 6.0 SP2

SAP
®

Document version 2.0

Copyright

Icons in Body Text

Icon	Meaning
⚠	Caution
💬	Example
💡	Note
🧭	Recommendation
SYN	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*.

Terms for Included Open Source Software

This SAP software contains also the third party open source software products listed below. Please note that for these third party products the following special terms and conditions shall apply.

SAP License Agreement for STLport

SAP License Agreement for STLport

between

SAP Aktiengesellschaft

Systems, Applications, Products in Data Processing

Neurottstrasse 16

69190 Walldorf

Germany

(hereinafter: SAP)

and

you

(hereinafter: Customer)

1. Subject Matter of the Agreement
   a. SAP grants Customer a non-exclusive, non-transferable, royalty-free license to use the STLport.org C++ library (STLport) and its documentation without fee.
   b. By downloading, using, or copying STLport or any portion thereof Customer agrees to abide by the intellectual property laws, and to all of the terms and conditions of this Agreement.
   c. The Customer may distribute binaries compiled with STLport (whether original or modified) without any royalties or restrictions.
   d. Customer shall maintain the following copyright and permission notices on STLport sources and its documentation unchanged:
      Copyright 2001 SAP AG
   e. The Customer may distribute original or modified STLport sources, provided that:
      - The conditions indicated in the above permission notice are met;
      - The following copyright notices are retained when present, and conditions provided in accompanying permission notices are met:

      Copyright 1994 Hewlett-Packard Company
      Copyright 1996,97 Silicon Graphics Computer Systems, Inc.
      Copyright 1997 Moscow Center for SPARC Technology.
      Copyright 1999,2000 Boris Fomitchev
      Copyright 2001 SAP AG

      Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that

both that copyright notice and this permission notice appear in supporting documentation. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Moscow Center for SPARC Technology makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Boris Fomitchev makes no representations about the suitability of this software for any purpose. This material is provided "as is", with absolutely no warranty expressed or implied. Any use is at your own risk. Permission to use or copy this software for any purpose is hereby granted without fee, provided the above notices are retained on all copies. Permission to modify the code and to distribute modified code is granted, provided the above notices are retained, and a notice that the code was modified is included with the above copyright notice.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. SAP makes no representations about the suitability of this software for any purpose. It is provided with a limited warranty and liability as set forth in the License Agreement distributed with this copy. SAP offers this liability and warranty obligations only towards its customers and only referring to its modifications.

2. Support and Maintenance
   SAP does not provide software maintenance for the STLport. Software maintenance of the STLport therefore shall be not included.
   All other services shall be charged according to the rates for services quoted in the SAP List of Prices and Conditions and shall be subject to a separate contract.

3. Exclusion of warranty
   As the STLport is transferred to the Customer on a loan basis and free of charge, SAP cannot guarantee that the STLport is error-free, without material defects or suitable for a specific application under third-party rights. Technical data, sales brochures, advertising text and quality descriptions produced by SAP do not indicate any assurance of particular attributes.

4. Limited Liability
   a. Irrespective of the legal reasons, SAP shall only be liable for damage, including unauthorized operation, if this (i) can be compensated under the Product Liability Act or (ii) if caused due to gross negligence or intent by SAP or (iii) if based on the failure of a guaranteed attribute.
   b. If SAP is liable for gross negligence or intent caused by employees who are neither agents or managerial employees of SAP, the total liability for such damage and a maximum limit on the scope of any such damage

shall depend on the extent to which its occurrence ought to have anticipated by SAP when concluding the contract, due to the circumstances known to it at that point in time representing a typical transfer of the software.

c.   In the case of Art. 4.2 above, SAP shall not be liable for indirect damage, consequential damage caused by a defect or lost profit.

d.   SAP and the Customer agree that the typical foreseeable extent of damage shall under no circumstances exceed EUR 5,000.

e.   The Customer shall take adequate measures for the protection of data and programs, in particular by making backup copies at the minimum intervals recommended by SAP. SAP shall not be liable for the loss of data and its recovery, notwithstanding the other limitations of the present Art. 4 if this loss could have been avoided by observing this obligation.

f.   The exclusion or the limitation of claims in accordance with the present Art. 4 includes claims against employees or agents of SAP.

Typographic Conventions

Type Style	Description
Example text	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.

Contents

Creating DB Schemas on Windows for SAP Enterprise Portal

This document provides instructions on setting up schemas in both Microsoft SQL Server 2000 and Oracle 9.2 Release 2 on Windows for use by Enterprise Portal 6.0 SP2.

The installation runs scripts specifically programmed to make sure that your database schemas are properly set and configured for the portal.

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

Purpose

This documentation only applies if you are installing schemas for both the Portal Platform and Content Management (CM) on Windows operating system.

If you are installing Oracle9i Release 2 (9.2) software on UNIX for SAP Enterprise Portal 6.0 SP2, see the guide, *UNIX: Installing Oracle9i Release 2 (9.2) for SAP Enterprise Portal 6.0 SP2*.

> Read the SAP Notes relating to Microsoft SQL Server 2000 and Oracle 9.2 for Windows. These notes contain recent installation and patch information.
>
> You can find the SAP Notes in SAP Service Marketplace (`service.sap.com/notes`).

List of Related SAP Notes

SAP Note Number	Title
209596	Setting Up Microsoft SQL Server 2000
417089	Microsoft SQL Server 2000 Service Pack
608651	SQL Server 2000 most recent hotfix
600027	Installing corrected MS SQL collation
578683 and 496227	Up-to-date information on the installation of the newest patch set for Oracle 9.2.0

Overview: Creating Portal Schemas Through SAPinst

You can install new schemas for SAP Enterprise Portal 6.0 SP2, or upgrade the schemas installed for SAP Enterprise Portal 6.0 SP1.

Doing so enables your database to be configured for the portal platform and Content Management (CM) in SAP Enterprise Portal 6.0 SP2.

You install new schemas, or upgrade the existing schemas using the SAP installation tool, System Landscape Implementation Manager, called SAPinst.

The installation tool must only be used in accordance with the instructions and for the purposes described in the SAP installation documentation.

SAPinst has a graphical user interface (GUI) called SAPinst GUI that allows you to watch the progress of the installation and see all messages issued by SAPinst. As SAPinst GUI is Java based, you need a Java Runtime Environment (JRE). SAPinst records installation progress in a single log file, *sapinst.log*.

For more information on SAPinst, see the documentation *SAPinst Troubleshooting Guide* at: `http://service.sap.com/sapinstfeedback`.

Install and configure the schemas on a machine dedicated to the database, so that they can be used in a cluster of portals.

The following sections provide detailed information for deploying the schemas using SAPinst GUI:

- Planning [Page 9]
- Preparations [Page 10]
- Installing MS SQL Server 2000 Software [Page 11]
- Installing Oracle9i (9.2) Software [Page 16]
- Setting Up Portal Schemas via SAPinst [Page 21]

Planning

Before you install and run SAP Enterprise Portal, you must install and configure the schemas for the portal platform and Content Management (CM) on the same machine as the database server.

If the Content Management (CM) database is located on a separate host, then make sure to install CM schema on that host before installing Content Management in the portal.

> Always install the schema required by CM before installing the CM application.

You can install all the components locally in one place for development and testing purposes. However, in a production environment, it is recommended that you install the database on a separate machine.

For detailed information on clustering the portal, refer to the *Technical Infrastructure Guide for SAP Enterprise Portal 6.0;* in the installation documentation set on **service.sap.com/ep60**, *Documentation & More → Installation*.

Requirements

The following table lists the software required by the SAPinst host:

Requirement Type	Requirement
Operating System	• Windows Server 2000, US English version with Service Pack 2 or higher. • Or, Windows Server 2003, 32 bit, English version. For more information, see: `service.sap.com/platforms`
Other Software	For SAP Enterprise Portal 6.0 SP2, you need the following: • Microsoft SQL Server 2000 Enterprise Edition, US English version with Service Pack 3 or higher.
	For schemas and table spaces in Oracle for SAP Enterprise Portal 6.0 SP2, install Oracle9i Release 2 (9.2), and apply the relevant patch to upgrade it to Oracle9i Release 2 (9.2.0.3)
	Installation of Microsoft SQL Server 2000 and Oracle9i Release 2 (9.2) must conform to configuration settings that are suitable for SAP systems. For details see, Installing the Corrected MS SQL Collation [Page 14], and Installing Oracle9i Release 2 (9.2) Software [Page 16].

▣ Preparing SAPinst Installation

The installation tool, SAPinst needs a Java Runtime Environment (JRE).

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 current SUN JDK Version for Windows at the Web site: `java.sun.com/j2se/`

To avoid an error when starting SAPinst GUI, make sure that there are no *.jar* files from an XML parser tool, such as, Xerces or Xalan, in the JDK ext directory.

Checking your Java Runtime

1. Make sure that a correct JDK version is installed on every host on which you want to run SAPinst GUI.

• To check the version of the existing JDK, enter the following at the command line: *java - version*

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

3. Make sure that %JAVA_HOME%\bin is included in your system path.

> You can run SAPinst GUI standalone from a separate Windows or UNIX host. This enables you to perform the installation on a remote host while monitoring the installation with SAPinst GUI from a local host.

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:

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

    Windows: `<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.

Installing MS SQL Server 2000 Software

Use

SAPinst GUI installs only the portal schemas in your existing Microsoft SQL server database. Microsoft SQL Server 2000 software must be installed on the host on which you intend to run SAPinst, before you setup new schemas.

Depending on the type of host involved, you either have to install the software for the database **client** or **server**:

*   The software for the **server** must be installed on the host where the database runs. It provides all the functions required to run a relational database management system. To install the **server** software you run a batch file.

*   The software for the **client** must be installed on all hosts without the database. It enables the communication between a host and the database. When you install the **client** software you use the *Microsoft SQL Server 2000* installation program*.*

Procedure

1. Log on to the host as a local administrator.

   For security reasons, install the Microsoft SQL Server software in an NTFS partition.

2. Insert the Microsoft SQL Server `2000 RDBMS CD`.
   For a **database server**, *Microsoft SQL Server 2000 Enterprise Edition* installation program starts automatically. If it does not, run the file AUTORUN.EXE located in the root directory of the `RDBMS CD`.
   For a **database client**, enter the required information as specified in the table below in the *Client Input* columns.

   If you mount the CD from a remote server, it must be assigned a drive letter. The installation writes a log file `sqlstp.log` to the Windows directory `%windir%`

   SAP Enterprise Portal works with the default database instance installed setup by SQL server 2000. It does not work with a named instance.

Input for Microsoft SQL Server Installation Program

Install the database server using the following values:

Window	Server Input	Client Input
Microsoft SQL Server 2000 Enterprise Edition	Select *SQL Server 2000 Components.*	Select *SQL Server 2000 Components.*
Install Components *Microsoft SQL Server 2000 Enterprise Edition*	Select *Install Database Server.*	Select *Install Database Server.*
Welcome	Choose *Next.*	Choose *Next.*
Computer Name	Select *Local Computer.*	Select *Local Computer.*
Installation Selection	Select *Create a new instance of SQL Server or install Client Tools.*	Select *Create a new instance of SQL Server or install Client Tools.*
User Information	Enter your personal information.	Enter your personal information.
Software License Agreement	Choose *Yes.*	Choose *Yes.*
CD-Key	Enter the key specified in the file `SAPCDKEY.txt` in the root directory of the RDBMS CD.	Enter the key specified in the file `SAPCDKEY.txt` in the root directory of the RDBMS CD.
Installation Definition	Select *Server and Client Tools.*	Select *Connectivity Only.*

Window	Server Input	Client Input
Instance Name	Select the instance you want to install. Portal works only with the default database instance.	Dialog box does not appear.
Setup Type	Select *Custom.*	Dialog box does not appear.
Select Components	Select all components except *Full Text Search* which must be deselected.	Dialog box does not appear.
Service Accounts	Select *Use the same account for each service. Auto start SQL Server Service*. Select *Use the Local System account*.	Dialog box does not appear.
Authentication mode	Select *Mixed mode*. Enter the password "*admin*"	Dialog box does not appear.
Collation settings	Select: *SQL Collations* From the dropdown list select *Binary order for use with the 850 Multilingual Character Set.*	Dialog box does not appear.
Network Libraries	Leave selection unchanged and choose *Next.*	Dialog box does not appear.
Start Copying Files	Choose *Next.*	Choose *Next.*
Choose Licensing Mode	Select the mode you require.	Dialog box does not appear.

3. When you have finished installing MS SQL Server 2000 software, do the following:

-   Install the Service Pack for MS SQL Server 2000 software.

    The current service pack from Microsoft is SP3a. SP3 includes previous service packs. For more information on how to get Service Pack 3, see **SAP Note 529150**.

-   In addition, you must apply the current hotfix (Hotfix 0780), see **SAP Note 608651**

-   Install a quick-fix engineering (QFE) solution that corrects the SQL Server collation settings required by an SAP system. For more information, see Installing the Corrected MS SQL Collation [Page 14].

-   Install the new schemas for SAP Enterprise Portal 6.0 SP2.

    You must note and write down the database port number and database instance name. These are required when you are installing the portal.

    The instance name of the database is by default the machine name.

Procedure

To obtain the Microsoft SQL server communication port number, do the following:

1. From the *Start menu > Programs > Microsoft SQL Server > Enterprise Manager*, expand *Microsoft SQL Servers > SQL Server Group*.

2. Right-click the SQL server <*machine_name*>, and choose *Properties > General* tab > *Network Configuration*.

3. Under *Enabled Protocols*, choose *TCP/IP* and select *Properties* to see the port number. The default port number is 1433.

Installing the Corrected MS SQL Collation

Use

When you install the MS SQL Server 2000 software, we recommend that you select the value *Binary order for use with the 850 Multilingual Character Set* in the field *Collation Settings*.

By so doing, all new databases and table columns are created with this collation setting.

> ⚠️
>
> Note that the collation settings applied during installation of MS SQL Server 2000 does not sort Unicode data as required by an SAP system.
>
> The answer provided by Microsoft is a quick-fix engineering (QFE) solution for SQL Server corrected collation, called *SQL_Latin1_General_CP850_BIN2*.

To view the default collation of MS SQL Server:

- Use the query:

  ```
  select serverproperty('collation')
  ```

  This query returns the default collation of the overall server. When you have selected code page cp850, it returns: `SQL_Latin1_General_CP850_BIN`

- Apply the QFE and run the executable *INSTCOLL.EXE* provided by SAP, after the standard installation of the MS SQL Server database.

  For information on how to obtain the QFE and *INSTCOLL.EXE*, see **SAP Note 600027**.

To obtain a correct collation order with MS SQL Server, you use the new collation for all new installations of MS SQL Server database for SAP Enterprise Portal 6.0 SP1 and above.

In order to run SAP Enterprise Portal 6.0 SP2, install a new named SQL Server instance and apply the new collation with INSTCOLL.EXE.

Prerequisites

- Make sure that you have installed MS SQL Server 2000 as described in Installation of MS SQL Server 2000 software, and that in the field, `Collation Settings`, you selected *Binary order for use with the 850 Multilingual Character Set*.

- You have installed Service Pack 3 or higher MS SQL Server 2000.

  If Service Pack 3 is not available on the Patch CD, refer to **SAP Note 529150** for more information.

- Download the zip file, *instcoll.zip*, attached to **SAP Note 600027**, and extract the file, *INSTCOLL.EXE*, to your server.

- Apply the QFE according to the instructions from Microsoft.

Procedure

Run the file, *INSTCOLL.EXE*, to install the correct collation for MS SQL Server 2000 for an SAP system, as follows:

1. Open a command prompt and enter the following command:

   –Default instance enter: INSTCOLL.EXE

   The system displays a message similar to the following:

   ```
   2003-02-27 19:08:31.80 spid1 index restored for
   Northwind.Employees.

   2003-02-27 19:08:31.83 spid1 index restored for
   Northwind.Categories.

   2003-02-27 19:08:31.94 spid1 index restored for
   Northwind.Customers.

   2003-02-27 19:08:32.12 spid1 index restored for
   Northwind.Suppliers.

   2003-02-27 19:08:35.47 spid1 Default collation successfully
   changed.

   2003-02-27 19:08:35.47 spid1 Recovery complete.
   ```

2. Press **Ctrl-C** to shutdown the server when the above information displays.

   The SQL Server starts automatically.

You run INSTCOLL.EXE only **once** to apply the new collation.

⚠️

Do not install the collation after you have created or attached the portal schemas, or any SAP, or non-SAP database. The INSTCOLL.EXE program checks for this and exits without applying the new collation.

You can now continue with installation of SAP Enterprise Portal 6.0 SP1.

Verify the Correct Collation

To verify whether the MS SQL Server is properly configured, run:

select serverproperty('collation')

When you have selected code page cp850, it returns '*SQL_Latin1_General_CP850_BIN2*'.

Installing Oracle9i Release 2 (9.2) Software

SAPinst GUI installs only the portal schemas in your existing Oracle9i Release 2 (9.2) software. Before you setup the schemas, install Oracle software on the host in which you intend to run SAPinst.

> You must run different files to install the client and the server software.

> There are three CDs for Oracle 9.2. You can do one of the following:

- Let the installation prompt you for the correct CD. This means you have to insert the correct CD during the installation.

- Copy the CDs to disk as follows before the installation:

  a. Copy the contents of \NT\i386 on RDBMS CD1 to \disk1 on your hard disk.

  b. Repeat this for the second and third CD. Copy their contents to \disk2 and \disk3.

     \disk1 to \disk3 can be on a network drive if required.

1. Start the Oracle Universal Installer as follows:

    If you have copied the CDs to disk, start from:

    \disk1

    Otherwise, place the Oracle RDBMS CD1 in the CD drive and start from:

    <CD_DRIVE>:\NT\I386

    On the database **server**, double-click the file *sapserver.cmd*.

    On the database **client** double-click the file *sapclient.cmd*.

    Alternatively, start *Autorun.exe* from the directory **\disk1\NT\I386\autorun**

2. Enter the information as shown in the table below.

    > If the installer aborts and the error `The exception unknown software exception ...` is displayed in an `Application Error` window, make sure that the `TMP` and `TEMP` variables in the user environment of `<DBSID>adm` refer to existing files. If not, reset them.

    > If during the installation an error is reported when writing to a DLL file, the DLL has the read-only attribute. In this case, before you continue the installation, open a command prompt and remove the read-only attribute with the command:

    attrib –r <DRIVE>:\%windir%\system32\<DLL>

    To view attributes enter:

    attrib <DRIVE>:\%windir%\system32\<DLL>

Provide the following in the Oracle Universal Installer window:

Window	Entry
File Locations	*Source*: The path to the Oracle source software is displayed. Do not change the path. *Destination*: *Name*: Enter the name of the new Oracle Home directory. SAP recommends the name `<DBSID><ORACLE_VERSION>,` for example, C11920, where C11 is the *<DBSID>* and *920* is the version *Path*: Enter the path of a new Oracle Home directory. SAP recommends: `<DRIVE>:\ORACLE\<DBSID>\<ORA_VERS>,` for example, `C:\ORACLE\EP6\920` ⚠️ Do not specify an already existing Oracle Home directory. You must specify a new directory. You need 2.2 GB disk space for the Oracle 9.2.0 server software and about 200 MB for the Oracle 9.2.0 client software. Choose *Next*.
Select a product to install	Choose *Oracle9i Database 9.2.0.1.0* and then *Next*.
Installation Types	Choose *Enterprise Edition.*
Database Configuration	Choose *General Purpose.*
Oracle MTS Recovery Service	Choose *Next* to accept the default port number 2030.
Database Identification	Specify a name for a pre-configured database. The same name is used for the SID.
Database File Location	Choose *Next* to accept the directory for the datafiles.
Database Character Set Location	Choose *Use the default character set* and choose *Next.*
Summary	Choose *Install.*
Network Configuration Assistant Welcome	If this dialog appears: Select *Perform Typical Configuration* and continue with *Next*.
End of Installation	Choose *Exit.*

Do the following after installation completes:

- Enter passwords for SYS and SYSTEM.

- Apply Oracle 9.2.0.3 patch [Page 18] to upgrade your installation.

- Install the portal schemas using SAPinst.

Applying Oracle 9.2.0.3 Patch

After installing the Oracle 9.2.0 software, you must apply the current patch set, Oracle 9.2.0.3, to upgrade your Oracle database for SAP Enterprise Portal 6.0 SP2.

Prerequisites

- See **SAP Note 578683**, and **SAP Note 496227** for information on current Oracle patches.

You need only install the latest Oracle patchset.

Procedure

To install the current Oracle 9.2.0.3 patch:

1. Log on to the system as a user with administration privileges.

2. Follow the instructions in the **SAP Note 578683** to download, and apply the current patch to Oracle 9.2.0.

Running SAPinst on Windows

Use

This procedure describes how to run SAPinst to install the portal on supported Windows platforms.

This section describes a local installation.

Prerequisites

- Make sure that you have already defined the environment variable for JAVA_HOME.

- Read the section on how SAPinst works before proceeding.

How SAPinst works

On executing the *sapinst* command, SAP installation program 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.

  - o 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.

  - o If you wish to use an existing directory for an installation, execute the *newinst.cmd* file in the installation directory before you run *sapinst.exe* 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 the need to use the CD for future use of SAPinst, use 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.

Procedure

1. Log on to your host as a user who is a member of the local administration group.
2. Create an installation directory for SAPinst, for example: C:\SAPinst.
3. Insert the portal Installation CD in your CD drive.

4. Open the command line in the installation directory, and run the command:

<CD drive>:\SAPinst\<OS>\I386\sapinst.exe

> If the directory does not contain any files from a previous installation, a new installation is started. Otherwise, the previous installation is continued.

> With this command, SAPinst is started from the CD, and it only extracts files specific to the <component> installation to the installation directory. If you want the SAPinst executable file to be copied to your local file system, use the following command instead:

<CD drive>:\SAPinst\<OS>\I386\sapinst.exe -extract

> If you get an error message about the ports being used, see *Starting SAPinst with Specific Ports*, below.

The Welcome screen appears, and the installation begins.

Follow the instructions on your screen. The necessary input parameters are listed in the section *Input Parameters for Creating Portal Schemas* under Setting Up Portal Schemas via SAPinst [Page 21].

5. After you have entered all input parameters, SAPinst starts the installation and displays installation progress during the processing phase. If the installation was successful, the message `The installation finished successfully.` is displayed.

> If problems occur, see Troubleshooting the SAPinst Installation.

Starting SAPinst with Specific Ports

SAPinst uses the ports 21212 and 21213 during the installation for communication with SAPinst GUI. You get an error message if one of these ports is already in use. In this case, do the following.

To start SAPinst with port specification:

1. Open a command prompt.

2. Change to <CD drive>:\SAPinst\<OS>\I386, and run:

<CD drive>:\SAPinst\<OS>\I386\sapinst.exe
SAPINST_DIALOG_PORT=<port>
where **<port>** and **<port+1>** are not in use on your host.

Setting Up Portal Schemas via SAPinst

You install the schemas for SAP Enterprise Portal using SAPinst GUI. For detailed information on installing SAPinst, see Running SAPinst [Page 18] on Windows.

This section contains information on how to setup schemata in Microsoft SQL Server 2000, and Oracle 9.2.0 using SAPinst GUI.

Input Parameters for Creating Portal Schemas in Microsoft SQL server

Provide the following values to enable SAPinst GUI to create the portal schemata in **Microsoft SQL server**:

Screens	Description and Values
Enterprise Portal 6.0 SP2 Installation Options	Under `Install Or Upgrade`, select *New Installation*. Under `Choose An Installation Option`, select *Database Server*, and then select *Next*.
MS SQL 2000 Database Management System Type	Oracle 9.2 and MS SQL 2000 are the options. Select `MS SQL 2000`, and select *Next*. If you are installing Oracle 9.2 schemas, skip the next step, and see the section below, *Input Parameters for Creating Portal Schemas in Oracle*
MS SQL 2000 Database Installation – Define Schema Parameter Values	• For `MS SQL`, specify a database user name and password for both the Portal Platform and the Content Management (CM) schemas. The default Portal platform database user name is *PCD*, and the default for CM is *WCM*.

Input Parameters for Creating Portal Schemas in Oracle

Provide the following values to enable SAPinst GUI to create the schemas for the portal on an **Oracle Instance**.

Oracle 9.2 Database Management System Type	Oracle 9.2 and MS SQL 2000 are the options. Select `Oracle 9.2`, and select *Next*.
Database Installation – Oracle Instance Properties	• Create a `New` Oracle instance or use an `Existing` instance. • Select `New`, and specify a name for the new instance, or accept the default name *POR* and then define the path for the SAP DBA tools. • If you select `Existing`, specify the name for the existing Oracle instance you want to use, and then define the path for the SAP DBA tools. • Select `Next`.
Database Installation – Define Schema Parameter Values	• Specify the database schema ID and password for both the Portal platform and the Content Management (CM) schemas. • The default Portal platform schema ID is *PCD*, and the default for CM is *WCM*. • Select `Next`.

Database Installation – Parameters
 	
For new Oracle instance installation
 	
Oracle Database Installation – Database Infrastructure
 	
For existing Oracle instance
	Specify the following:
	
	• `Oracle_HOME`
	
	    Specify the home directory of Oracle.
	
	• `Database Administrator(OS user):`
	
	    Name of the operating system user with permissions in the Oracle directory. The default is *orapor*.
	
	    Later, use this name to access the Oracle directory, and to install the Oracle9i software.
	
	• `Password of Database Administrator (OS User):`
	
	    Enter and confirm the password for the administrator (Oracle account) that can start and stop Oracle database.
	
	• `Password of Database User SYS:`
	
	    Enter and confirm the password for the user SYS. You can use the default.
	
	    If you selected *Existing* and you are installing schemas on an existing Oracle instance, the rest of the fields below in this screen, are not available.
	
	• `Password of Database User SYSTEM:`
	
	    Enter and confirm the password for the user SYSTEM. You can use the default.
	
	    This option is available if you are installing a new Oracle instance.
	
	• `Database Instance RAM:`
	
	    Specify the memory size for use by the Oracle instance. The minimum value is 512 MB.
	
	    This option is available if you are installing a new Oracle instance.
	
	• `Listener Name:`
	
	    Use the default, *LISTENER*.
	
	    Available if you are installing a new Oracle instance.
	
	• `Listener Port:`
	
	    Use the default, *1527*
	
	    This option is available if you are installing a new Oracle instance.
	
	Select `Next`.

Database Installation - Physical Database Layout	Specify the drives in which to locate the various folders for the Oracle instance installation.
	Select Next. The summary screen displays.

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

Upgrading Existing Schemas in Microsoft SQL Server

You can upgrade the schemas installed for SAP Enterprise Portal 6.0 SP1 to schemas suitable for SAP Enterprise Portal 6.0 SP2.

> This section is relevant if you are upgrading existing schemas you installed through SAPinst for SAP Enterprise Portal 6.0 SP1.

Provide the following values to enable SAPinst GUI to upgrade the portal schemata in **Microsoft SQL server**:

Screens	Description and Values
Enterprise Portal 6.0 SP2 Installation Options	Under Install Or Upgrade, select *Upgrade from Enterprise Portal 6.0 SP1 to SP2*.
	Under Choose an Upgrade Option, select *Database Schemas*, and then select *Next*.
MS SQL 2000 *Database Management System Type*	Oracle 9.2 and MS SQL 2000 are the options.
	Select MS SQL 2000, and select *Next*.
	If you are installing Oracle 9.2 schemas, skip the next step, and see the section below, *Input Parameters for Creating Portal Schemas in Oracle*
MS SQL 2000 *General Database Details* *DB Communication Port*	• Enter the port number for the MS SQL server, the default is 1433.
MS SQL 2000 *Database Installation – Define Schema Parameter Values*	• For MS SQL, specify the database user name and password for both the Portal Platform and the Content Management (CM) schemas.
	The default Portal platform database user name is *PCD*, and the default for CM is *WCM*.

Upgrading Existing Portal Schemas in Oracle9i

Provide the following values to enable SAPinst GUI to upgrade the existing schemas for SAP Enterprise Portal 6.0 SP1 to SP2 on an **Oracle Instance**.

> This section is relevant if you are upgrading existing schemas you installed through SAPinst for SAP Enterprise Portal 6.0 SP1.

Oracle 9.2 *Database Management System Type*	Oracle 9.2 and MS SQL 2000 are the options. Select `Oracle 9.2`, and select *Next*.
Database Installation – Oracle Instance Properties	• Under `Choose an Upgrade Option`, select *Database Schemas*, and then select *Next*. • Specify the existing instance name, *POR*, the default instance name, and choose *Next*.
Database Installation – Define Schema Parameter Values	• Specify the database schema ID and password for both the Portal platform and the Content Management (CM) schemas. • The default Portal platform schema ID is *PCD*, and the default for CM is *WCM*. • Select `Next`.

Oracle Database Installation – Database Infrastructure	Specify the following:
	
	• `Oracle_HOME`
	
	    Specify the home directory of Oracle.
	
	• `Database Administrator(OS user):`
	
	    Name of the operating system user with permissions in the Oracle directory. The default is *orapor*.
	
	    Later, use this name to access the Oracle directory, and to install the Oracle9i software.
	
	• `Password of Database Administrator (OS User):`
	
	    Enter and confirm the password for the administrator (Oracle account) that can start and stop Oracle database.
	
	• `Password of Database User SYS:`
	
	    Enter and confirm the password for the user SYS. You can use the default.
	
	    If you are upgrading existing schemas on an Oracle instance, the rest of the fields below in this screen, are not available.
	
	Select *Next*.

Database Installation - Physical Database Layout	Specify the drives in which to locate the various folders for the Oracle instance installation. Select *Next*. The summary screen displays.

Troubleshooting

SAPinst uses the ports 21212 and 21213 during the installation for communication with SAPinst GUI. You get an error message if one of these ports is already in use. In this case, you must do the following:

1. Copy directory *SAPINST\NT* from the CD to your local hard disk.

2. In file *SAPINST\NT\Setup.cmd* search for the following string:

    ```
    .\sapinst.exe

    SAPINST_CONTROL_URL=control_bootstrap.xml
    ```

3. Append `SAPINST_DIALOG_PORT=<port>` to this string:

    ```
    .\sapinst.exe

    42305 RSCPINST (NLS installation tool)

    45619 R/3 with several languages or typefaces

    64 SAPINST_CONTROL_URL=control_bootstrap.xml
    ```

    `SAPINST_DIALOG_PORT=<port>`, where <port> is an unused port on your host.

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

4. Run *Setup.cmd* from your local hard disk.

Continuing an Interrupted Installation

As SAPinst does not abort the installation when an error occurs, you can continue an interrupted installation in the following situations.

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:

    o   In the error dialog box, choose *Retry*.

    o   SAPinst now retries the installation step.

*   You have **already** canceled the installation

    The installation was aborted and now you want to continue it.

    Since SAPinst records the installation progress in its local log file, it can continue the installation from the failed step without repeating previous steps.

    Restart the installation:

    o   Go to Start →Programs →<SAPinst_menu_entry> → SAPinst GUI.

Uninstalling

You can uninstall the database server, and instances of databases installed for either the portal or CM.

To uninstall the database instance for the portal:

1. Shutdown the instance of the portal database in the database server, default name is *POR*.

2. Remove the entire instance from the database server, using the following command:

    ```
    rm /install_dir/<dbsid>
    ```

    where `rm` is the command`, /install_dir/` is the parent directory, for example:`/oracle/`, and `<dbsid>` is the instance name.

Removing SAPinst

To uninstall SAPinst, manually remove the directories and files created for it.