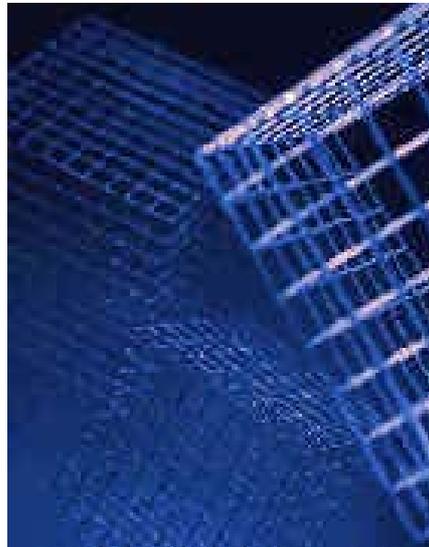


Database Software Installation Guide: SAP DB



Version 7.4



Copyright

© Copyright 2003 SAP AG.

Permission is granted to copy, distribute and/or modify this document under the terms of the GNU Free Documentation License, Version 1.1 or any later version published by the Free Software Foundation.

For more information on the GNU Free Documentaton License see <http://www.gnu.org/copyleft/fdl.html#SEC4>.

Icons

Icon	Meaning
	Caution
	Example
	Note
	Recommendation
	Syntax

Typographic Conventions

Type Style	Description
<i>Example text</i>	Words or characters that appear on the screen. These include field names, screen titles, pushbuttons as well as menu names, paths and options. Cross-references to other documentation.
Example text	Emphasized words or phrases in body text, titles of graphics and tables.
EXAMPLE TEXT	Names of elements in the system. These include report names, program names, transaction codes, table names, and individual key words of a programming language, when surrounded by body text, for example, SELECT and INCLUDE.
Example text	Screen output. This includes file and directory names and their paths, messages, source code, names of variables and parameters as well as names of installation, upgrade and database tools.
EXAMPLE TEXT	Keys on the keyboard, for example, function keys (such as F2) or the ENTER key.
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. Pointed brackets indicate that you replace these words and characters with appropriate entries.

Database Software Installation Guide: SAP DB 7.4	5
Standard Installation/Update with SDBINST	5
Installing/Updating Under UNIX	6
Downloading and Unpacking the Software Under UNIX	8
Logging Under UNIX.....	9
Installing/Updating Under Linux (Intel)	9
Installation/Update with the Red Hat Package Manager	9
Installing/Updating with SDBINST	10
Installing/Updating Under Microsoft Windows.....	11
Downloading and Unpacking the Software Under Microsoft Windows	12
Logging Under Microsoft Windows	13
Standard Uninstallation with SDBUNINST	13



Database Software Installation Guide: SAP DB 7.4

Purpose

This document describes the standard installation, update, and uninstallation of SAP DB software. You can download this software from the *Software* section of the SAP DB Homepage at <http://www.sapdb.org>. Choose your operating system, and read the relevant notes and explanations. The *Downloads* section of the SAP DB Homepage contains a quick download area for experienced SAP DB users.

At regular intervals, a CD-ROM with the material number **50061824** is produced that contains the SAP DB software. You can order this CD-ROM free of charge on the SAP DB Homepage.

The programs SDBINST and SDBUNINST are part of the SAP DB software version 7.4. You use the SDBINST program for installing and updating the SAP DB software and the SDBUNINST program for uninstalling the SAP DB software.

You can select the software components that you want to install by using [installation profiles](#).

Supported [operating system platforms](#).

Constraints

This guide does **not** apply for installing and updating the SAP DB database software in SAP systems.

The installation or upgrade of the SAP DB software required for SAP systems is described in SAP-specific installation guides. SAP customers can find these guidelines in the SAP Service Marketplace, under <http://service.sap.com>.

Implementation Considerations

Installation profiles are various combinations of individual [SAP DB software components](#), as they are required for different purposes. You achieve a functioning software installation irrespective of which profile you select.

If you only want to install individual SAP DB software components (just a part of an installation profile), you must consider the dependencies between SAP DB components to ensure that the software installation can function. For more information, see the [Installation Guide: SAP DB 7.4](#).



For general information on the SAP DB database system, see [The SAP DB Database System](#) under *Documentation* on the SAP DB Homepage <http://www.sapdb.org>.

[Standard Installation/Update with SDBINST \[Page 5\]](#)

[Standard Uninstallation with SDBUNINST \[Page 13\]](#)



Standard Installation/Update with SDBINST

SDBINST is a program for the installation or update of the SAP DB software. It is used interactively for the standard installation/standard update described in this document.



You can also use it for background processing. The background installation is described in the [SAP DB Installation Guide](#).

The SDBINST program is part of the SAP DB software version 7.4.

Use the procedure described in this documentation for updates only if no [database instances](#) refer to the installation path of the software that you want to update.



If database instances refer to the installation path of the software that you want to update, you must update the database instances together with the software ([Updating Database Instances Including Software](#)). If you do not do this, you risk making the database instances incompatible with the database software, which means that they cannot function.

[Installing Under UNIX \[Page 6\]](#)

[Installing Under Linux \[Page 9\]](#)

[Installing Under Microsoft Windows \[Page 11\]](#)



Installing/Updating Under UNIX

Use

You use the SDBINST program on the UNIX operating system to install or update a chosen [installation profile](#) of the SAP DB software. All necessary information is queried by the program during the installation.



Before updating the database software, you must stop the program V Server. Note that by doing so, you interrupt the communication of clients to **all** local database instances.

The installation process is logged by the system.

Conventions

[Variables](#)

Prerequisites

- You are in a `root` shell.
- You have downloaded and unpacked the installation package ([Downloading and Unpacking the Database Software Under UNIX \[Page 8\]](#)).

Preparations

If the following conditions apply to your system, you must perform the specified steps before a new installation:

- The installation program enters the required services `sql6`, `sql30` and `sapdb ni 72` in the file `/etc/services` if they do not already exist there. If these services are managed centrally for your system on the network (NIS), you must enter them there as follows.

<code>sql6</code>	<code>7210/tcp</code>
<code>sql30</code>	<code>7200/tcp</code>
<code>sapdb ni 72</code>	<code>7269/tcp</code>
- For the installation, you must specify the group `sapsys` and the owner `sapdb` of the SAP DB software. If these settings are managed centrally in the network, you must create them there.

- If the path `<independent_program_path>/bin` is not yet entered in your environment variable `PATH`, enter it now.

Procedure

1. If you want to update an existing SAP DB installation
 - Stop every SAP DB database instance that is assigned to the installation directory to be updated with the command:
`dbmcli -d <database_name> -u <dbm_user>, <password>
db_offline`
 - Stop the program V Server (service `XServer`) with the command:
`x_server stop`

For a new installation, begin with step 2.
2. Switch to the directory
`sapdb-<inst_profile>-<os>-64bit-<arch>-<version>_<build>`,
 which contains the installation software for the chosen [installation profile](#).
 Enter `/SDBINST`, to start the installation/update program.
3. The system proposes the installation profile that you selected for the installation. If the selected installation profile (such as `all`) contains other installation profiles, you can now select one of these installation profiles. To do this, specify the relevant ID. Confirm your selection.
4. The system prompts you to specify the group `<group>` and the owner `<owner>` of the SAP DB database software.

The default values of the system are:

- **Installation outside of an SAP system:**
 for `<group>` `sapsys` and for `<owner>` `sapdb`
 If the group `sapsys` and the owner `sapdb` have not yet been created, the system asks whether you want to create them. Enter the desired values or confirm the system default values.
- **Update outside of an SAP system:** the values chosen in the previous installation/update

Update in an SAP system

For SAP DB OLTP database instances for `<group>` `sapsys` and for `<owner>` `sqdsid`

For liveCache database instances for `<group>` `sapsys` and for `<owner>` `sidadm`.

5. The system now checks whether there are SAP DB installations that can be updated on your host.
 If this is the case, all existing installations are listed.
 - If you want to update an existing installation, enter its ID.
 The system then updates the software that is stored under the `<independent_data_path>` and the `<independent_program_path>`. Depending on the selected profile, the software under the `<dependent_path>` is updated if the installation package contains newer versions of the files in the directory.
 - If you want to install new database software in parallel with an existing installation, enter `none`. You then have the option of specifying a new installation path. Define an installation path in parallel with the existing installation path.

If there are **no** SAP DB installations on your host, the SAP DB components contained in the installation profile are now installed. Depending on the installation profile that you have chosen, the system may prompt you to specify the following paths:

- Path for storing the data, configuration, and run directories of SAP DB database instances and SAP DB applications (the system default value is `/var/opt/sapdb/indep_data`)
- Path for storing the programs and libraries shared by the SAP DB database instances and SAP DB applications (the system default value is `/opt/sapdb/indep_prog`)

Enter the desired paths or confirm the system default values.

6. If there were no SAP DB installations on your host until now, add the following entry to the PATH environment variable for all users that are to use SAP DB:
`<independent_program_path>/bin.`

You see a success message about the installation.

Result

The new version of the selected installation profile of the SAP DB software is now installed and registered on your host. You can use the log to check that the installation ran correctly ([Logging Under UNIX \[Page 9\]](#)).

You can now create new database instances using the Database Manager

(See:

- [Creating a Database Instance](#) in the *Database Manager CLI: SAP DB 7.4* documentation
- The [Web DBM](#) documentation)



Downloading and Unpacking the Software Under UNIX

Use

You can download the newest SAP DB database software for your operating system from the SAP DB Homepage (<http://www.sapdb.org>) under *Software*.

Take account of the relevant notes about disk capacity and the tested operating system versions.

Procedure

1. Select the SAP DB software package that corresponds to your operating system architecture and the desired [installation profile](#)
`SAPDB-<inst_profile>-<os>-64bit-<arch>-<version>_<build>.<tgz>`
2. Download the software package and unpack it using the following command:
`tar xvzf sapdb-<inst_profile>-<os>-64bit-<arch>-<version>_<build>`

In this local directory, the system creates a subdirectory `sapdb-<inst_profile>-<win>-<32|64>bit-<arch>-<version>` and stores the SAP DB software including the SDBINST program there.



Logging Under UNIX

The entire installation or update process is logged. The system stores this log under the following path:

```
<independent_data_path>/wrk/SAPDB<inst_profile>_install-<date>-<time>.log
```

If the `<independent_data_path>` directory is not known when the system crashes, the log will be created in the current directory.

[Installing/Updating Under UNIX \[Page 6\]](#)



Installing/Updating Under Linux (Intel)

Use

You are installing [components](#) of the SAP DB Software. You can download this software from the SAP DB Homepage at <http://www.sapdb.org> → *Software*.

There are two package formats available to you for the installation or update:

- [Installation/Update with the Red Hat Package Manager \[Page 9\]](#)
- [Installation/Update with the Program SDBINST \[Page 10\]](#)



Installation/Update with the Red Hat Package Manager

Use

You are installing or updating **all** [components](#) of the SAP DB Software on the Linux operating system.

If you only want to install or update individual components, you must consider the dependencies between SAP DB components to ensure that the software installation can function. For more information, see the [SAP DB Installation Guide](#).



If you already have a SAP DB installation on your host that was installed using the Red Hat Package Manager (`rpm` package), you can only perform additional installations or updates using this program.

It is no longer possible to perform additional installations or updates using the SDBINST program (installation with a `tgz` package).

Prerequisites

- You are in a `root` shell.
- The `rpm` packages to be installed are accessible.

Procedure

Installing the SAP DB Software for the First Time

1. Execute the installation command:

```
rpm -Uhv sapdb*.rpm
```

2. If there were no SAP DB installations on your host until now, add the following entry to the PATH environment variable for all users that are to use SAP DB:
`<independent_program_path>/bin.`

Updating the SAP DB Software



Stop all existing SAP DB software on the server on which you want to update a SAP DB software version.

Stop the program V Server. Note that by doing so, you interrupt the communication of clients to **all** local database instances.

1. Stop all SAP DB instances that are assigned to the installation directory to be updated with the command:
`dbmcli -d <database_name> -u <dbm_user>,<password> db_offline`
2. Stop the program V Server (service `XServer`) with the command:
`x_server stop`
3. Execute the installation command:
`rpm -Uhv sapdb*.rpm`

Result

The new version of the selected installation profile of the SAP DB software is now installed and registered on your host.

You can now create new database instances using the Database Manager

(See:

- [Creating a Database Instance](#) in the *Database Manager CLI: SAP DB 7.4* documentation
- The [Web DBM](#) documentation)



Installing/Updating with SDBINST

Use

You are installing or updating **all** [components](#) of the SAP DB Software on the Linux operating system.

If you only want to install or update individual components, you must consider the dependencies between SAP DB components to ensure that the software installation can function. For more information, see the [Installation Guide: SAP DB 7.4](#).



If you already have a SAP DB installation on your host that was installed using the Red Hat Package Manager (installation with an rpm package), you can only perform additional installations or updates using this program.

It is no longer possible to perform additional installations or updates using the SDBINST program (installation with a tgz package).

Procedure

Follow the procedure described in the section [Installing/Updating Under UNIX \[Page 6\]](#).



Installing/Updating Under Microsoft Windows

Use

You use the SDBINST program on the UNIX operating system to install or update a chosen [installation profile](#) of the SAP DB software. All necessary information is queried by the program during the installation.



Before updating the database software, you must stop the program V Server. Note that by doing so, you interrupt the communication of clients to **all** local database instances.

The installation process is logged by the system.

Conventions

[Variables](#)

Prerequisites

- You have administration rights for your host.
- You have downloaded and unpacked the installation package ([Downloading and Unpacking the Database Software Under Microsoft Windows \[Page 12\]](#)).

Procedure

1. If you want to update an existing SAP DB installation
 - Stop every SAP DB database instance of **all** installed versions of SAP DB with the following command:
`dbmcli -d <database_name> -u <dbm_user>,<password>
db_offline`
 - Stop the program V Server (service XServer) with the command:
`x_server stop`

For a new installation, begin with step 2.
2. Open the command prompt and navigate to the local directory that contains the installation files:
 - For SAP DB OLTP software
`sapdb-<inst_profile>-win-<32|64>bit-<arch>-<version>`,
 - For liveCache software
`sapdb-apo<apo_version>_<livecache>-win-<32|64>bit-<arch>-<version>`
3. Enter `sdbinst`, to call the installation/update program.
4. The system proposes the [installation profile](#) that you selected for the installation. If the selected installation profile (such as *all*) contains other installation profiles, you can now select one of these installation profiles. To do this, specify the relevant ID. Confirm your selection.
5. The system now checks whether there are SAP DB installations that can be updated on your host.

If this is the case, all existing installations are listed.

- If you want to update an existing installation, enter its ID. The system then updates the software that is stored under the `<independent_data_path>` and the `<independent_program_path>`. Depending on the selected profile, the software under the `<dependent_path>` is updated if the installation package contains newer versions of the files in the directory.
- If you want to install new database software in parallel with an existing installation, enter `none`. You then have the option of specifying a new installation path. Define an installation path in parallel with the existing installation path.

If there are **no** SAP DB installations on your host, the SAP DB components contained in the installation profile are now installed. Depending on the installation profile that you have chosen, the system may prompt you to specify the following paths:

- Path for storing the data, configuration, and run directories of SAP DB database instances and SAP DB applications (the system default value is `/var/opt/sapdb/indep_data`)
- Path for storing the programs and libraries shared by the SAP DB database instances and SAP DB applications (the system default value is `/opt/sapdb/indep_prog`)

Enter the desired paths or confirm the system default values.

You see a success message about the installation.

6. If there was no SAP DB installation on your host until now, we recommend that you now shutdown and restart your host to make the `<independent_program_path>` known to the system.

This is not necessary if you are updating the database software.

Result

The new version of the selected installation profile of the SAP DB software is now installed and registered on your host. You can use the log to check that the installation ran correctly ([Logging Under Microsoft Windows \[Page 13\]](#)).

You can now create new database instances using the Database Manager

(See:

- [Creating or Initializing a Database Instance](#) in the *Database Manager GUI: SAP DB 7.4* documentation
- [Creating a Database Instance](#) in the *Database Manager CLI: SAP DB 7.4* documentation
- The [Web DBM](#) documentation)



Downloading and Unpacking the Software Under Microsoft Windows

Use

You can download the newest SAP DB database software for your operating system from the SAP DB Homepage (<http://www.sapdb.org>) under *Software*.

Take account of the relevant notes about disk capacity and the tested operating system versions.

Procedure

1. Select the SAP DB software package that corresponds to your operating system architecture and the desired [installation profile](#)
`sapdb-<inst_profile>-<win>-<32|64>bit-<arch>-<version>_<build>.<zip>`
2. Use WinZip to unpack the software package to a local directory of your choice.
3. In this local directory, the system creates a subdirectory
`sapdb-<inst_profile>-<win>-<32|64>bit-<arch>-<version>`
 and stores the SAP DB software including the SDBINST program (SDBINST.EXE) there.



Logging Under Microsoft Windows

The entire installation or update process is logged. The system stores this log under the following path:

```
<independent_data_path>\wrk\SAPDB<inst_profile>_install-<date>-<time>.log
```

If the `<independent_data_path>` directory is not known when the system crashes, the log will be created in the current directory.

[Installing/Updating Under Microsoft Windows \[Page 11\]](#)



Standard Uninstallation with SDBUNINST

Use

You can use the SDBUNINST program after you have installed Version 7.4 of the SAP DB software. You can use this program to uninstall SAP DB software from Version 7.2.



Note that the program was first delivered with SAP DB version 7.4, and is therefore only available to you if you have at least one SAP DB version 7.4 installation on your host.

During the standard uninstallation with SDBUNINST, you uninstall the **entire** SAP DB software on your host.

You can also use the SDBUNINST program if you only want to uninstall individual software components. In this case, however, you must consider sequences and dependencies of software components. For more information about uninstalling individual software components, see [Uninstalling the SAP DB Software](#) in the *Installation Guide: SAP DB*.

Prerequisites

- One or more SAP DB software versions are installed on your host. There is at least one installation of version 7.4 among these, which contains the SDBUNINST program.
- You have administration rights for your host.

Procedure Under Microsoft Windows, UNIX, and Linux

1. On UNIX/Linux, switch to the `root` shell.
 On Microsoft Windows, open the command prompt on your server.

2. Stop the program V Server (service `XServer`):
`x_server stop`
3. Stop every SAP DB database instance on your host with the following command:
`dbmcli -d <database_name> -u <dbm_user>,<password> db_offline`
4. Delete every SAP DB database instance on your host with the following command:
`dbmcli -d <database_name> -u <dbm_user>,<password> db_drop`
5. Call the uninstall program with the option for uninstalling all SAP DB software:
`sdbuninst -all`
The system displays a list of all existing SAP DB software components.
6. Start the uninstallation by entering `y`.
You see a success message about the uninstallation.

Result

All SAP DB software was deleted from your host.