

ADABAS D

INSTALLATION UNDER WINDOWS 95



This document is applicable to ADABAS D Version 6.1.1 PE and to all subsequent releases, unless otherwise indicated in new editions or technical newsletters.

Specifications contained herein are subject to change and these changes will be reported in subsequent revisions or editions.

Readers' comments are welcomed. Comments may be addressed to the Documentation Department at the address on the back cover.

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1 Installing for Client-Server Operation

The ADABAS D Personal Edition allows you to work with one or more local SERVERDBs as well as in client-server operation. To access a SERVERDB located on another computer, you use the ADABAS D tools on one or more client PCs within the network. This mode of operation is also called "remote SQL".

The network protocol used for communication between client PCs and the database server is always TCP/IP. It is provided by the operating system and must be installed if not yet available on your PC. No other additional software is needed because ADABAS D has a built-in TCP/IP connectivity.

To be able to work with the ADABAS D Personal Edition in client-server operation, all computers involved must first be prepared for remote SQL operation.

1.1 Activating Remote SQL

To activate remote SQL, the following steps must be taken:

1. Install the TCP/IP software (see the operating system documentation).

Afterwards, the operation of the TCP/IP connection should be checked by using utility programs such as Telnet or FTP.

2. Enter the service name for ADABAS:

Add the following line to the TCP/IP file "services":

```
sql30          7200/tcp
```

Ensure that the new line is correctly terminated; i.e., it must contain an end-of-line character (CR+LF) at the end.

3. Terminate all active SERVERDBs.

All SERVERDBs started on the computer must be shut down and stopped if this has not been done yet (CONTROL: SHUTDOWN OFFLINE). Afterwards, CONTROL must be left (EXIT).

4. Install remote SQL:

```
x_remote install
```

Now the computer is prepared for remote SQL operation, enabling the user to access either local or remote SERVERDBs.

1.2 Starting the Remote SQL Server

In order that requests from remote clients can be received on the database server and passed to the SERVERDB(s), remote SQL must be activated on the database server. A server process receiving the requests is started which coordinates communication between the clients and the SERVERDB(s). To activate remote SQL on the server, do the following::

1. Start CONTROL:

```
xcontrol -d <serverdb>
```

where <serverdb> is the name of the SERVERDB.

2. Click on the **Options..** menu item and select **Remote SQL Server...** Click on **Start**.

The remote SQL server is being started and appears as "Xserver" task in the task bar. In the CONTROL main screen, the **Remote SQL** item is displayed as **Enabled**.

An alternative to start the remote SQL server is to enter the command:

```
x_server start
```

from the MS-DOS prompt or by selecting the "**Run**" item in the **Start Menu**.

1.3 Defining a Data Source on The Client PC

For your work with a remote SERVERDB, a new ODBC data source description must be created on each client PC. To do so, proceed in the following way:

1. Open the Control Panel and select **32-bit ODBC**. The 32-bit ODBC Administrator will be started.
2. Click on the **Add...** button.
3. From the list "Installed ODBC Drivers", select ADABAS D and click on **OK**. The ADABAS D ODBC setup appears.
4. Fill in the form as follows:

| | |
|---------------------------|---|
| Data Source Name : | Any unique name for the data source; e.g., ADABAS D - RemoteDB. |
| Description : | A comment to describe the database may be entered here. |
| Serverdb : | The name of the remote SERVERDB; e.g. MYDB. Note that this name is case significant. |
| Servernode : | The TCP/IP node name of the computer where the remote SERVERDB is located; e.g. adapc1. If necessary, ask your network administrator for the node name. |

After you have filled in all specifications, confirm the input by clicking on the **OK** button.

5. The new data source is now displayed in the list of the ODBC data sources. Click on **Close** to end the ODBC Administrator.

1.4 Manually Deactivating Remote SQL

If TCP/IP is no longer available (e.g., because it was deinstalled or does not work correctly), REMOTE SQL must be deactivated in order that work with ADABAS can be continued. To do this, the following steps must be performed:

1. Terminate all active SERVERDBs.

All SERVERDBs started on the computer must be shut down and stopped if this has not been done yet (CONTROL: SHUTDOWN OFFLINE). Afterwards, CONTROL must be left (EXIT).

2. Deinstall remote SQL:

```
x_remote uninstall
```

Now remote SQL is deactivated. The user can only access local SERVERDBs.

2Installing a New SERVERDB

Before starting with the installation of a new SERVERDB, Chapter 2 of the CONTROL manual should be read carefully. The basic concepts of an ADABAS D SERVERDB are described there, as there are: structure, log modes, parameters, client-server configuration, distribution, etc.

2.1DEVSPACEs

A DEVSPACE is a file which contains the whole data or at least part of the data of a SERVERDB.

For recovery and performance reasons, DEVSPACEs of a SERVERDB should not be created on the same physical disk except for testing purposes.

A DEVSPACE is created as a file in the currently used file system. The DEVSPACE name must comply with the corresponding filename conventions.

Under Windows 95, the configured DEVSPACEs are automatically created and expanded to the specified size when the SERVERDB is initialized. As soon as DEVSPACEs have been created, their sizes remain unchanged.

Windows 95 files can also be configured as DEVSPACEs by using NFS. When doing so, data consistency, recovery, and performance problems may occur because NFS buffers the data, so that there is no guarantee that the data pages are immediately written to hard disk. As error correction is very difficult, if not impossible, in such a case, DEVSPACEs via NFS files must only be used for testing purposes.

For further information about DEVSPACEs, see the CONTROL Manual, Chapter 2.

2.2 New Installation of a SERVERDB with CONTROL

CONTROL is called in the following way:

```
xcontrol -d <serverdb>
```

where <serverdb> is the name of the SERVERDB to be created. CONTROL requests all parameters required for the configuration, installs the SERVERDB, starts the SERVERDB, and installs the system tables.

A detailed description of the installation is provided in the CONTROL manual, Section 3.1 f.

2.3 Verifying The New SERVERDB Installation

While installing the database with CONTROL, the installation procedure is constantly checked whether it is successful or not. If an error occurs, the installation is aborted and a corresponding error message occurs. To be sure that the installation was successful, you can display the installation log file after the installation using the 'Diagnose/Inst Protocol' menu item in CONTROL. The last line of the log file should contain the message "Load system tables for complete installation successfully finished".

2.4 Loading the System Tables for QueryPlus

Before QueryPlus is able to work with your newly installed SERVERDB, some system tables in the SERVERDB must be loaded. To do so, proceed as follows:

1. Go to the MS-DOS command prompt.
2. Call LOAD by entering the following command:

```
xload -u <Sysdba name>, <Sysdba password> -d <serverdb> -b  
%DBROOT%\env\qp.ins
```


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