Adabas for Linux, UNIX and Windows

Installation on Windows

Version 7.0

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ADABAS & NATURAL

This document applies to Adabas for Linux, UNIX and Windows Version 7.0 and all subsequent releases.

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

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Preface

This documentation describes the installation of Adabas 7.0 and the Adabas Client 7.0 on Windows.

Hereafter, the generic term Adabas will be used to describe both the Adabas and the Adabas Client.

Adabas is installed using the Software AG Installer, which you download from the Software AG Empower website at ***https://empower.softwareag.com/***.

This documentation provides product-specific instructions for installing Adabas. It is intended for use with *Using the Software AG Installer*. That guide explains how to prepare your machine to use the Software AG Installer, and how to install and uninstall your products. The most up-to-date version of *Using the Software AG Installer* is always available at ***https://empower.softwareag.com/***.

This documentation is organized under the following headings:

System Requirements	Supported operating system platforms and prerequisites.
Components Installed With Adabas	General information on Adabas, on Adabas Client, on Adabas Client for Java, on Adabas Administration Services, and on the required license files.
Important Information	Important information that you should be aware of before you start the installation.
Installing Adabas	How to install Adabas and Adabas Client with the Software AG Installer.
Completing the Installation	How to proceed after the installation.
Uninstalling Adabas	How to uninstall Adabas.
Installing Fixes from Software AG Update Manager	How to install and uninstall fixes for Adabas using the Software AG Update Manager (SUM).
Upgrade Guide	How to upgrade from a previous version or previous Service Pack.

For important last-minute information, see the readme file that is provided with Adabas. You can find it in the Adabas product documentation at ***https://empower.softwareag.com/***.

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
`Monospace font`	Identifies service names and locations in the format *`folder.subfolder.service`*, APIs, Java classes, methods, properties.
`Italic`	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
`Monospace font`	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
|	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the | symbol.
[ ]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [ ] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Product Documentation

You can find the product documentation on our documentation website at **https://documentation.softwareag.com**.

In addition, you can also access the cloud product documentation via **https://www.softwareag.cloud**. Navigate to the desired product and then, depending on your solution, go to "Developer Center", "User Center" or "Documentation".

Product Training

You can find helpful product training material on our Learning Portal at **https://knowledge.softwareag.com**.

Tech Community

You can collaborate with Software AG experts on our Tech Community website at **https://tech-community.softwareag.com**. From here you can, for example:

- Browse through our vast knowledge base.
- Ask questions and find answers in our discussion forums.
- Get the latest Software AG news and announcements.
- Explore our communities.
- Go to our public GitHub and Docker repositories at **https://github.com/softwareag** and **https://hub.docker.com/publishers/softwareag** and discover additional Software AG resources.

Product Support

Support for Software AG products is provided to licensed customers via our Empower Portal at **https://empower.softwareag.com**. Many services on this portal require that you have an account. If you do not yet have one, you can request it at **https://empower.softwareag.com/register**. Once you have an account, you can, for example:

- Download products, updates and fixes.
- Search the Knowledge Center for technical information and tips.
- Subscribe to early warnings and critical alerts.
- Open and update support incidents.
- Add product feature requests.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

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Supported Operating System Platforms

Adabas supports a variety of operating environments. For information on the support platforms for this release of Adabas, read *Supported Platforms*, in the *Release Notes*.

Disk Space Requirements

You can only install Adabas on a local hard drive on a Windows system. You cannot install Adabas on a network-mapped drive or a SUBST drive.

Approximately 1 GB of hard-disk space is required for Adabas (including Adabas, Adabas Client and Software AG Installer packages).

Additional Software Requirements

For the installation of Adabas, the following additional software requirements apply:

Operating System Platforms	Requirement
All Windows versions	Install all of the recommended and important Microsoft Windows updates before you start the installation.

3 Components Installed With Adabas

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- Adabas Client for Java (optional) 8
- Adabas Administration Services (optional) 9
- Adabas Manager (optional) 9
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Adabas

Adabas covers all components of the Database Management System itself. Adabas requires the Adabas Client and the Infrastructure subcomponent Security Libraries.

Adabas can be installed side-by-side. There are some restrictions which are described in the section *Side-by-Side Installations*.

To complete the Adabas installation, you must activate the license files as described in the section *Completing the Installation*.

Adabas Client

Adabas Client covers all components needed to access Adabas from Client applications. It is used by several Software AG products such as Adabas and Entire Net-Work.

Adabas Client for Java (optional)

The Adabas Client for Java is an interface to Adabas for Java-based applications. The product consists of three individual components:

- The Java-based API itself;
- the Adabas Rest Interface, which can be used to access data from any programming language that supports HTTP request handling;
- the Adabas Data Designer, which is used to configure the Java API maps from Adabas FDT, Natural DDM or XSD definitions, as well as to browse the data in Adabas files.

If you have installed the Adabas Client for Java, see the description of the appropriate *Adabas Client for Java* documentation in Empower for further information. This documentation is available separately.

Adabas Administration Services (optional)

Adabas Administration Services is a communication component required by Adabas Manager. It must be installed and running if you want to monitor and administer Adabas databases with Adabas Manager.

See the appropriate *Adabas Manager* and *Adabas Administration Services* documentation in Empower for further information.

Adabas Manager (optional)

Adabas Manager is used to interactively monitor and administer Adabas databases. See the appropriate *Adabas Manager* documentation in Empower for further information.

Infrastructure

Adabas, or the components installed with Adabas, require a number of infrastructure components that are automatically installed with the Software AG Installer. For instance, the Infrastructure Security Libraries are required by Adabas. These libraries contain the functionality required to implement the Adabas Authentication feature.

Further Products

Depending on your credentials, you may see (and can select or deselect) further entries in the **Adabas Products** node. Please refer to the separate documentation of the individual product(s) for a detailed description of the required installation steps.

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Administrator Status

The account under which the installation is performed must have administrator rights.

Installation Directory

During the installation, you are asked to specify an installation directory in which to install your Software AG products. By default, the name of the main installation directory is *C:\SoftwareAG*.

The directory name should not contain embedded spaces. For further information, see *Using the Software AG Installer*.

The default Start Menu Group is **Software AG**.

Side-by-Side Installations

You can install the same Adabas version more than once on the same machine. And you can also install several different versions of Adabas on the same machine. Each version, however, must be installed in a separate directory. You cannot overwrite an existing version, you can only uninstall it.

Choose for instance C:\SoftwareAG\Suite1 for the first installation and C:\SoftwareAG\Suite2 for the second one. Accordingly, the related Start Menu Groups should be named Software AG and Software AG2.

If several Adabas versions are installed on the same machine, it is recommended to install any other Software AG products using Adabas into the directory where the specific Adabas version had been installed.

Adabas requires that every Adabas installation is licensed separately. The Adabas license has to be activated for each installation directory. For further information see ***Final Installation Steps***.

Activate/Deactivate an Adabas Installation

In a Windows environment in which multiple Adabas installations of the same version exist, only one installation can be active. In order to switch to another installation, the previous installation must first be deactivated and the current installation activated.

Activating an Adabas Server installation registers and starts the Adabas services for the current installation.

Deactivating an Adabas Server installation deregisters and stops the Adabas services for the previous installation.

To activate an Adabas installation

- Activate the current installation via the **Start** menu under: **All Programs> <installation_menu_group>> Administration> Adabas 7.0> Activate Installation**.

To deactivate an Adabas installation

- Deactivate the previous installation via the **Start** menu under: **All Programs> <installation_menu_group>> Administration> Adabas 7.0> Deactivate Installation**.

Adabas Data Directory

Adabas stores its configuration data and information about the available databases in a directory identifed by the environment variable ADADATADIR. In particular, if you use Adabas Extended Operations or the Adabas Manager, the descriptions of all databases to be accessed must be stored in ADADATADIR.

The database IDs used must be unique on the same machine. Moreover, the file *ADABAS.INI* located in *%ADADATADIR%\etc* contains setup data that should be unique on your machine as well.

ADADATADIR is by default the Program Data directory: %PROGRAMDATA%\Software AG\Adabas .

You can change the value of ADADATADIR for the current installation by running *change_adadatadir.bat* from an appropriate DOS command prompt. For further information, refer to the section ***ADADATADIR*** in the Upgrade Guide in this section.

Windows User Group

The Adabas installation creates a local Windows user group with the name "SAG Adabas Administrators". The user "EVERYONE" is assigned to this user group by default.

When the Windows user group "SAG Adabas Administrators" is created, you have to reboot your machine when the installation finishes. When this user group has already been created (due to a previous installation), this reboot is not required.

The user group "SAG Adabas Administrators" receives full write permissions for the Adabas Data Directory. Due to the user "EVERYONE", all users have write permissions for the Adabas Data Directory You can limit these permissions by removing the user "EVERYONE" from the user group "SAG Adabas Administrators", and then manually adding all required users to this group. To do so, go to **Control Panel > System and Security > Administrative Tools > Computer Management**; in the resulting window, select **Local Users and Groups**.

Canceling the Installation

As you move through the wizard, the installer stores some of the files it requires in a temporary directory. If you cancel the installer and later restart it on the same machine, the installer will use the stored files rather than downloading them from the installer server again, to improve performance. After a successful installation, the installer deletes the stored files.

If you cancel the installation before it has finished and if you want to remove already installed files, you have to do this manually. For further information, see ***Uninstalling Adabas***.

Adabas Client Environment

The Adabas Client environment will be automatically set as a global environment, unless another environment is already set as a global environment and the version of this environment is higher than or equal to the version to be installed.

Mandatory Environment Variable for Adabas Utilities

The environment variables ADADATADIR and ADAPROGDIR are mandatory environment variables which must be defined for Adabas utilities. If either one or both is undefined, this will result in failure and Adabas utilities execution will end. Both environment variables ADADATADIR and ADAPROGDIR have a default value defined.

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Using the GUI to Install Adabas

This installation documentation provides a brief description on how to install Adabas directly on the target machine using the Software AG Installer GUI. For detailed information on the Software AG Installer, see the *Software AG Installer* documentation > *Using GUI Mode*.

To install Adabas

1 Start the Software AG Installer GUI as described in the *Software AG Installer* documentation > *Using GUI Mode*.

2 If the installer can connect to the Software AG Installer server without going through a proxy, it displays a message to that effect. You can click **Next** to continue, click **AutoDetect** to have the installer auto-detect your proxy servers so you can select one to use, or manually supply the settings for an HTTP or Socks proxy server.

For more information, see the *Software AG Installer* documentation > *Use a Proxy Server*.

3 Provide your Empower user name and password. Click **Next**.

After you provide your credentials, a panel with the licence agreement text will be shown if you have not read and accepted the license agreement previously. To continue your installation, read and accept the license agreement in the panel.

4 Click the product release that includes the products you have licensed and want to install. Click **Next**.

5 Specify the installation directory and host name or IP address (optional).

Note: If you plan to install several versions of Adabas, you should not use the proposed installation directory `/opt/softwareag`, but a subdirectory.

The section ***Side-by-Side Installations*** provides details on the restrictions which apply to the installation directory when multiple instances of the Adabas are being installed side-by-side. The installation wizard does not allow you to install two Adabas versions into the same directory. Click **Next**.

6 Select and/or deselect products from the panel containing the product selection tree. The tree lists the products for which you have valid credentials and which can be installed on the operating system of the machine on which you are installing.

If you want to customize the list of selected product components, expand the Adabas Products node, deselect Adabas Products and select the product components that you want to install. The installer automatically selects any additional components which are also required (for further information see ***Components Installed with Adabas***). Click **Next**.

Usually, the Adabas Client is always installed together with Adabas, but can also be installed separately.

Notes:

1. You may deselect the Adabas Administration Services component if the Adabas Manager is not used to operate Adabas.
2. During the Adabas Administration Services installation, you will be asked for the Adabas Directory Server URL. If your databases are to be remotely administered via Adabas Manager, the URL should point to the same Adabas Directory Server instance as your Adabas Manager installation.

7 If language packs are available for products you are installing or have already installed, the installer displays the language packs tree. Select the language packs to install, and then click **Next**.

8 You can choose whether to install the latest updates for all products or install updates for only a subset of products. Updates can be installed both online and offline and any user data that is needed, for example credentials and proxy settings, is collected from the Installer client. Click **Next**.

9 On the last panel, review the list of products and items you have selected for installation. If the list is correct, press the **Next** button to start the installation process.

When the Software AG Installer has completed the first-time installation, additional configuration steps are required. See *Completing the Installation* for further details.

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Final Installation Steps

This section describes the steps which are needed to be completed after the installation of Adabas on Windows.

To complete the installation of Adabas on Windows.

1 Activate the Adabas license.

1. Copy the file holding the license key to a temporary location on your Windows machine.
2. Start a Command Prompt to activate the license via the *Start* menu under: **All Programs**> *Start Menu group name* > **Administration** > **Adabas** *n.n* > **Activate License**.
3. In the Command Prompt execute the `adalic` script to activate the license file. Enter:

```
adalic activate path_to_license_file
```

where *path_to_license_file* represents the fully qualified path to your license file.

2 In the case of a first-time installation, continue as described under the step "Verify the Installation" below.

3 Side-by-Side Installation

If you already have a previous version of Adabas installed and activated:

1. Terminate your active databases. The administration command *adashow -a* lists the databases that must be terminated.
2. Deactivate the previous Adabas installation via the Start menu under: **All Programs** > *Start Menu group name* > **Administration** > **Adabas** *n.n* > **Deactivate Installation**.
3. Activate the current installation via the Start menu under: **All Programs**> *Start Menu group name 2* > **Administration** > **Adabas** *n.n* > **Activate Installation**.

Continue as described under the step "Verify the Installation" below.

4 Verify the Installation.

Note: This step is optional.

To verify your installation, you may choose to:

- Create the Demo Database
- Start the database
- Generate a database report

- Terminate the database

To achieve this, execute the following steps:

1. Create the Demo Database
   - Via the *Start* menu under: **All Programs** > *Start Menu group name* > **Administration** > **Adabas** *n.n* > **Create Demo Database**.
   - Execute the script to create the Demo Database.
2. Start a Command Prompt to execute Adabas utilities via the *Start* menu under: **All Programs** > *Start Menu group name* > **Administration** > **Adabas** *n.n* > **Start Command Prompt**.
3. Start the database from the command prompt issuing the command:

   ```
   adastart dbid
   ```

   Where *dbid* represents the Database ID of your database.

   For further details on adastart, refer to the section *Start Database: adastart* in the *Extended Operation* documentation
4. Generate a database report from the command prompt issuing the command:

   ```
   adarep dbid=dbid contents
   ```

   Where *dbid* represents the Database ID of your database.

   For further details on adarep, refer to the section *ADAREP* in the *Utilities* documentation.
5. Determine whether the database is active by executing the following commands from the command prompt:

   ```
   adashow -a
   ```

   and

   ```
   getdbinfo dbid
   ```

6. Terminate the database from the command prompt issuing the command:

   ```
   adastop dbid
   ```

   Where *dbid* represents the Database ID of your database.

   For further details on adastop, refer to the section *Stop Database: adastop* in the *Extended Operation* documentation.

Note: In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

Configure the Adabas Environment

It is not possible to set Global Environment Settings for Adabas.

The Adabas utilities require the Adabas environment variables to be set. The required environment variables are automatically set when the utility programs are executed from the **All Programs** > *Start Menu group name* > **Administration** > **Adabas** *n.n* > **Start command prompt**, where *n.n* represents the currently installed version of Adabas (the 1st digit denotes the major version, the 2nd digit – the minor version).

Use the script `adaenv.bat` located in the directory *install_dir**Adabas**INSTALL*\ to set the environment variables, when Adabas utility programs are to be executed outside the command prompt.

Configure the Adabas Client Environment

The Adabas Client environment is only required by applications and services, which access an Adabas database or utilize the database communication facilities.

In a Windows environment where multiple Adabas Client installations exist, only one Global Adabas Client Environment installation can be active.

By default, the highest installed version of Adabas Client is set as the Global Environment.

If you want to switch back to a lower version, you must first unset the previous installation and then set the current installation using the script *aclenvvar*.

To set the Adabas installation use the *Start* menu. Go to: **All Programs** > *Start Menu group name* > **Administration** > **Adabas Client** *n.n* > **Configure Global Environment**.

In the Command Prompt, execute the script *aclenvvar* with one of the following options:

aclenvvar unset
Unsets the previous global environment.

aclenvvar set
Sets the current global environment.

aclenvvar show
Displays information about the current local and global environment setting.

Note: In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

Information about the Installed Version

Adabas

Information about the version number can be obtained using the following methods:

- Open a command prompt from the **Start** menu: **All Programs>** *Start Menu group name* **> Administration> Adabas Server** *n.n*> **Start Command Prompt**. Then execute

```
sagver %ADAPROGDIR%\adanuc.exe
```

- Open a command prompt from the **Start** menu: **All Programs>** *Start Menu group name* **> Administration> Adabas Server** *n.n*> **Start Command Prompt**. Then execute

```
type %ADAPROGDIR%\version.txt
```

Note: In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

Adabas Client

Information about the version number can be obtained using the following method:

- Open a command prompt from the **Start** menu: **All Programs>** *Start Menu group name* **> Administration> Adabas Client** *n.n*> **Configure Global Environment**. Then execute

```
sagver %ACLDIR%\adalnkx.dll
```

Note: In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

Reinstall Adabas SQL Gateway and Adabas Event Replicator

If you are also using the Adabas SQL Gateway or the Adabas Event Replicator, you must reinstall these products. For further information, refer to the related product documentation.

7 Uninstalling Adabas

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You uninstall Adabas using the Software AG Uninstaller. For detailed information on how to use the uninstaller, see the *Using the Software AG Installer* guide.

Uninstalling Adabas

To uninstall Adabas, proceed as follows:

1. Ensure that all databases and processes, which use the directory that is to be removed, have been terminated.
2. Deactivate the Adabas installation that is to be removed. Use the **Start** menu > **All Programs** > *Start Menu group name* > **Administration** > **Adabas** *n.n* > **Deactivate Installation**
3. Uninstall Adabas using the standard uninstall functionality of Windows. The Control Panel offers the following entry: **Software AG Products:** *installation-directory*. When you choose to uninstall this entry, the Software AG Uninstaller is invoked.

All files created or modified by the user are not removed.

Note: In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version; *installation-directory* represents the name of the installation directory.

Uninstalling Adabas Client

If the global Adabas Client environment has been set, or if applications still have Adabas DLLs in use, the Uninstall will be rejected.

Ensure that all applications using the Adabas Client have been terminated and unset the global Adabas Client environment. Use the Start Menu: **All Programs** > *Start Menu group name* > **Administration** > **Adabas Client** *n.n* > **Configure Global Environment** and execute *aclenvvar unset*.

In silent mode, an unset of the global Adabas Client environment will be done automatically (for further information about the silent mode refer to the Software AG Uninstaller documentation).

Notes:

1. If you unset the global Adabas Client environment, and if you want to go back to Adabas version 6.3, you need to reinstall the Adabas Client version shipped with Adabas 6.3.
2. In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

8 Installing Fixes from Software AG Update Manager

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With the Software AG Update Manager (SUM) you can download and install fixes for Adabas.

Installation Steps

To install a fix using the Software AG Update Manager

1 Make sure that all Adabas processes and all application accessing Adabas are terminated.

2 Start the Software AG Update Manager and choose **Install fixes from Software AG Empower**.

3 Specify the installation directory and supply your Empower credentials, and choose **Next**.

4 Specify the fix you want to install and choose **Next**.

5 Once the fix has been successfully installed, details of the installation are displayed in the Software AG Update Manager. Choose **Close** to terminate the Update Manager, or choose **Home** to return to the main screen.

Verifying the Fix Version

You can verify the version of the installed fix by starting a utility (for example, ADAREP) from the command line; the version number of the fix is displayed in the first line of the output.

Uninstalling a Fix

You can use the Software AG Update Manager to uninstall a fix and thereby go back to the previous fix version.

To uninstall a fix using the Software AG Update Manager

1 Make sure that all Adabas processes and all applications accessing Adabas are terminated.

2 Start the Software AG Update Manager and choose **Uninstall fixes** , then choose **Next**.

3 Specify the fix you want to uninstall and continue through the steps until uninstallation is complete.

Once the fix has been successfully uninstalled, details of the uninstallation are displayed in the Software AG Update Manager. Choose **Close** to terminate the Update Manager, or choose **Home** to return to the main screen.

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Upgrading from a previous Adabas Version

This section is intended to assist a user upgrading from an older version of Adabas to the current version.

- Installation
- Adabas License
- Activating the Installation
- ADADATADIR
- Converting a Database from a previous version to the current version and vice versa
- Autostart

Installation

On Windows platforms, the default installation directory is *C:\SoftwareAG* and the default Start Menu Group name is Software AG.

If the same Adabas version is to be installed more than once, or if several different versions are to be installed on the same machine, each version or instance must be installed in a separate directory (under Windows also a separate Start Menu Group).

It is not possible to install more than one Adabas version into the same directory. You cannot overwrite an existing version, you can only uninstall it.

For further information see the section ***Important Information*** and follow the instructions in the section ***Installing Adabas***.

Adabas License

Adabas requires that every Adabas installation is licensed separately.

Follow the instructions in the section ***Completing the Installation*** to complete the installation and to activate the license.

Activating the Installation

If you have Adabas Version 6.3 or earlier installed:

1. Terminate your active databases.
2. Unset the global Adabas environment.
3. Activate the current installation via the Start menu under: **All Programs>** *`Start Menu group name`* **> Administration > Adabas** *`n.n`* **> Activate Installation**.

Note: In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

Follow the instructions in the section ***Completing the Installation*** to verify the installation.

ADADATADIR

The environment variable ADADATADIR identifies the directory in which the databases are located; e.g. the db*nnn* directories, where *nnn* is the three digit database number.

By default, ADADATADIR is the Program Data directory: *%PROGRAMDATA%\Software AG\Adabas*.

If your databases are allocated in the default location *%PROGRAMDATA%\Software AG\Adabas*, no additional configuration is required.

You can change the value of ADADATADIR for the current installation by running *change_adadatadir.bat* from an appropriate command prompt.

To run change_adadatadir.bat

1 Shut down all processes that are using the current installation.

2 Deactivate your installation with

Start Menu > **All Programs** > **Start Menu group name** > **Administration** > **Adabas** *n.n* > **Deactivate Installation**

3 Open a command prompt with

Start Menu > **All Programs** > **Start Menu group name** > **Administration** > **Adabas** *n.n* > **Start Command Prompt**

and then run *change_adadatadir.bat*.

4 Close all open command prompts.

5 Reactivate your installation to pick up the new value for ADADATADIR with

Start Menu > **All Programs**> **Start Menu group name** > **Administration** > **Adabas** *n.n* > **Activate Installation**

Notes:

1. Although ADADATADIR can be different for each installation of Adabas, the database numbers must be unique in your Windows environment.
2. In the above description *n.n* represents the current version of Adabas: the 1st digit denotes the major version, the 2nd digit – the minor version.

Converting a Database from a previous version to the current version and vice versa

After installing Adabas, the databases to be used need to be prepared for use with this version. Several options to convert those databases are described in the *Release Notes*. The conversion back to a previous version is also described there.

Before a database is converted to a different version, you are strongly recommended to make a backup of that database with utilities provided for the version of the database, and, following successful conversion, to run *ADAVFY*'s FIELD and INDEX functions to check the consistency of the database.

Autostart

If your database is to be started automatically when the Adabas Database Service starts, the AUTOSTART value needs to be adapted to the new Adabas version. Execute

```
ADASRV Set <dbid> AUTOSTART=Vnnn00 ↩
```

where *nnn* is the Adabas version (1st digit = major version, 2nd digit = minor version, 3rd digit = service pack, 4th - 5th digit are always zero).

Examples

```
AUTOSTART=V67000 ↩
```

This means major version = 6, minor version = 7, service pack = 0, fix = 00.

```
AUTOSTART=V70000
```

This means major version = 7, minor version = 0, service pack = 0, fix = 00.

For further information see *Adabas Services on Windows*.

User Exits and Hyper Exits

When you start the Adabas nucleus, and the runtime requirements of a user exit or hyperexit differ to those of the nucleus, a message similar to the following will be recieved:

```
MSVCRxxx.dll is missing or cannot be found.
```

Microsoft recommends that the manifest file be embedded in the C/C++ application in order to ensure that the correct runtime is used, and thus avoid such issues.

Please refer to the following Microsoft documentation topics for further details about how to do this:

- How to: Embed a Manifest Inside a C/C++ Application
- Isolated Applications and Side-by-side Assemblies