

Adabas Manager

Using Adabas Manager

Version 8.5

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This document applies to Adabas Manager Version 8.5 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 tells you how to use Adabas Manager, a web-based graphical user interface (GUI) with which you can perform administrative tasks for Adabas and Entire Net-Work.

Adabas Manager provides browser-based administration and monitoring of Adabas databases on Linux, UNIX, and Windows platforms as well as system administration tasks necessary for Entire Net-Work operations.

This documentation covers the following topics:

Starting and Ending an Adabas Manager Session	Describes how to start and end an Adabas Manager session.
The Adabas Manager Graphical User Interface	Describes the Adabas Manager graphical user interface (GUI).
Database Administration	Describes how to view/modify the details, status, and parameters of a selected database.
Entire Net-Work Administration	Describes how to perform the system administration tasks necessary for Entire Net-Work operations.
Building an Adabas Manager Docker Image	Describes how to build an Adabas Manager Docker image and run the Adabas Manager container scripts.

1 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	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

Software AG Documentation Website

You can find documentation on the Software AG Documentation website at <https://documentation.softwareag.com>.

Software AG Empower Product Support Website

If you do not yet have an account for Empower, send an email to empower@softwareag.com with your name, company, and company email address and request an account.

Once you have an account, you can open Support Incidents online via the eService section of Empower at <https://empower.softwareag.com/>.

You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>.

To submit feature/enhancement requests, get information about product availability, and download products, go to [Products](#).

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, go to the [Knowledge Center](#).

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- Access product documentation, if you have Tech Community credentials. If you do not, you will need to register and specify "Documentation" as an area of interest.
- Access articles, code samples, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Data Protection

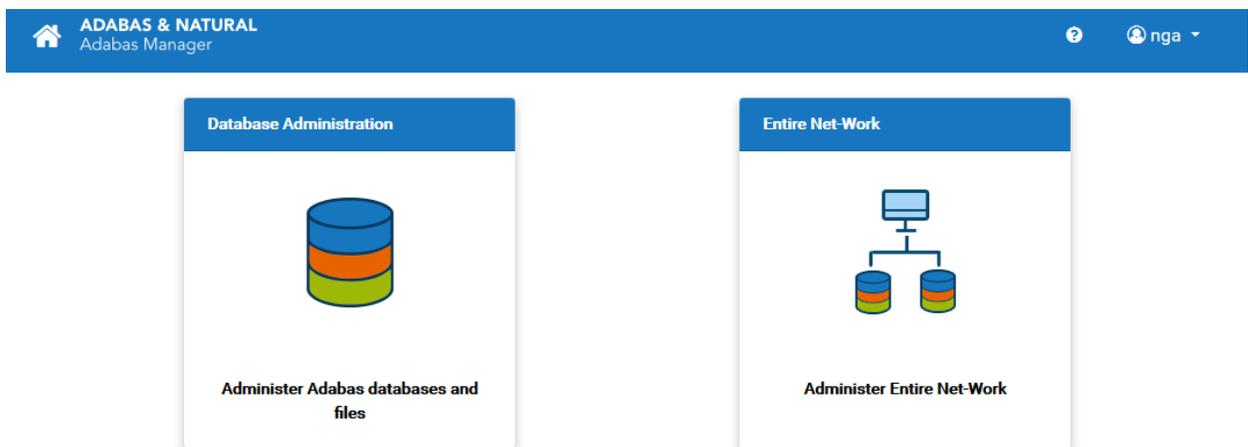
Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

2 Starting and Ending an Adabas Manager Session

How you start an Adabas Manager session depends on whether you are accessing the software locally or remotely.

 **Note:** For security reasons, your login credentials cannot be saved.

After successfully logging on, the Adabas Manager application starts and the Adabas Manager home page is displayed.



> To start a local Adabas Manager session on Windows

- 1 From the Windows **Start** menu, choose **All Programs** > *start menu group name* > **Administration** > **Adabas Manager** *n.n*.

 **Note:** *n.n* stands for the current version number. The *start menu group name* (by default, this is "Software AG") can be changed during the installation.

The Adabas Manager login page appears in your default browser.

- 2 Enter your login information (local or domain user ID and password) and click the **Log In** button.

After successfully logging in, the Adabas Manager application starts.



Note: In order to log in remotely, you must know the port number for the Adabas Manager application (in Tomcat). After logging in locally, click on the link **Configuration** in the title bar - the port number is displayed under "Application server port".

➤ To start a local Adabas Manager session on Linux

- Execute the script *amn.sh* located in `<installdir>/AdabasManager/bin`.

➤ To start a local or remote Adabas Manager session via a browser on Linux or Windows

- 1 Open a compatible internet browser such as Microsoft Internet Explorer, Firefox or Google Chrome and open the URL `http://<hostname>:<port>/adabasmanager/`, replacing `<hostname>` with the name of the host machine on which Adabas Manager is installed and `<port>` is the "Application port number" (see above).



Note: The firewall of the remote machine on which Adabas Manager is running must be configured to allow this remote access.

The Adabas Manager login page appears in your default browser.

- 2 Enter your login information (user ID and password for this machine) and click the **Log In** button.



Note: In addition to the Windows or Linux user ID, the Adabas Manager security user ID is also checked. For reasons of compatibility, the systems user ID must adhere to the same naming conventions as the security user ID (it can be up to 32 alphanumeric characters long and must not contain blanks). The security user ID is automatically set to uppercase.

After successfully logging in, the Adabas Manager application starts.

An Adabas Manager session can be ended in a number of ways:

1. Choose **Logout** from the user profile on the top right corner in the Adabas Manager title bar. Logging out always terminates Adabas Manager. This is the recommended method because it allows Adabas Manager to save information and release used resources before the session terminates.
2. Alternatively, close the internet browser or close the browser tab in which Adabas Manager is running.

3 The Adabas Manager Graphical User Interface

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Screen Layout

The following shows a typical screen from Adabas Manager (in this case from **Overview of Database**).

The screenshot shows the Adabas Manager GUI for 'Database 98 (Documentation_DB)'. The top bar includes 'ADABAS & NATURAL' and 'DB 98 (daeama05)'. The left sidebar is labeled 'Navigation area' and contains various menu items. The main 'Data area' displays the following information:

Overview of Database 98 (Documentation_DB)

Buttons: Stop Database, Close CLOG, Close PLOG, Show adanuc.log

Database Status	Uptime	Active Users
Online	4m 9s	1

Space Allocation

ASSO (block size < 16 KB)		ASSO (block size ≥ 16 KB)		DATA		WORK	
Allocated Size	[MB] 10.00	Allocated Size	[MB] 10.00	Allocated Size	[MB] 10.00	Allocated Size	[MB] 10.00
Free Space	[MB] 7.11	Free Space	[MB] 9.28	Free Space	[MB] 0.38		
Free Space	[%] 71.13	Free Space	[%] 92.81	Free Space	[%] 3.75		
Extents	1	Extents	1	Extents	1		

Below the table are three pie charts for ASSO, DATA, and WORK spaces, each with a legend for 'Used' (blue) and 'Free' (grey).

The data area is used to display data and dialogs.

The navigation area contains links to various Adabas Manager functions. It can be closed/opened by clicking on the left/right arrow above it.

Standard Links

The following section describes the various standard links in Adabas Manager. These links are available on the top right of the Adabas Manager home page.

Configuration

If you click on the **Configuration** link, you can add, delete and edit host connections..

Help

Clicking on the **Help** link displays links to the following information:

About

Clicking on the **About** links displays the legal notices for Adabas Manager.

Contact Us

Use the **Contact Us** link to display information about how to contact Software AG if you have any questions or problems concerning Adabas Manager.

Documentation

Clicking on the **Documentation** link displays the relevant section of the documentation for Adabas Manager. The documentation is displayed in a separate tab. The documentation can be displayed at any time while an Adabas Manager session is active.

System Information

Clicking on the **System Information** link displays information about the version number of Adabas Manager.

User Profile

Click on the **User Profile** link to log out from the Adabas Manager.

Navigating in Adabas Manager

The following section describes how to navigate in the Adabas Manager.

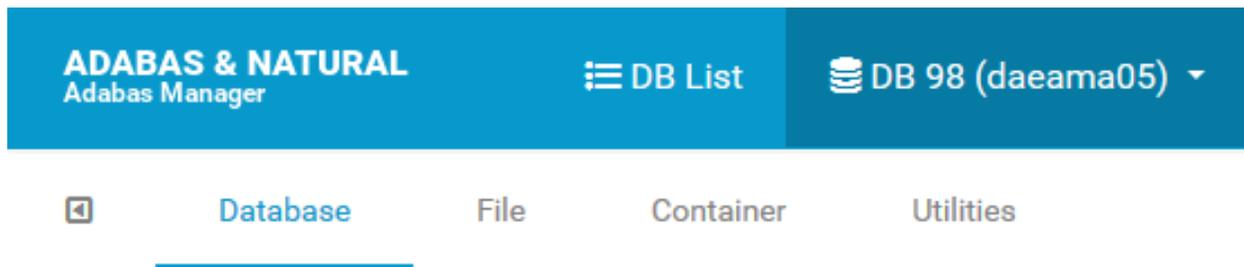
- [Links](#)

- [Tooltips](#)

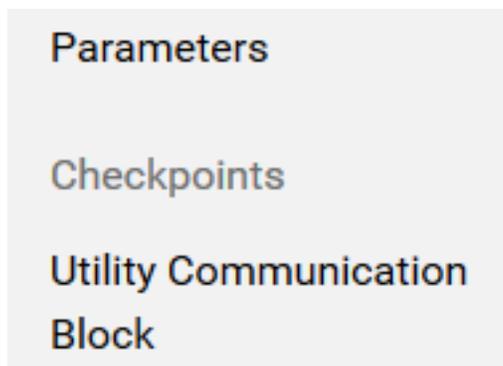
Links

Links appear throughout Adabas Manager, especially in the navigation area, but also in the screen data itself.

The links for **Database**, **File**, **Container**, and **Utilities** are above the data area, and are always available if a database has been selected. The following example also shows the arrow for opening/closing the navigation area.



In the following example from the navigation area, the words **Parameters**, **Checkpoints**, and **Utility Communication Block** are all navigable links. Enabled links are shown in bold type. You can click on these links to see more information about database parameters, and the utility communication block (the checkpoints link is disabled).



In the following example, the numbers **1**, **2**, **3** and **9**, and the words **CHECKPOINT-FILE**, **SECURITY-FILE**, **USER-DATA-FILE**, and **EMPLOYEES-NAT** are all navigable links that appear in the screen data area. You can click on each of these links to see more information about specific files in the database. The example also shows the edit icon, the eraser icon, and the waste bin icon.

FNR	File Name	File Type	Loaded Records	Rename	Renumber	Refresh	Delete
1	CHECKPOINT-FILE	System file	30				
2	SECURITY-FILE	System file	0				
3	USER-DATA-FILE	System file	0				
9	EMPLOYEES-NAT		1107				

Tooltips

Adabas Manager makes extensive use of tooltips. These tooltips provide explanatory information about the object in question.

Background Action Running

Some of the functions of the Adabas Manager may take a couple of seconds to complete; when such functions (e.g starting/stopping a database) are running in the background, a spinning wheel



icon () is displayed in the top left of the screen next to the ADABAS & NATURAL logo.



Note: The icon does not indicate how much of the function has been completed.

Creating Reports

Many of the display functions in Adabas Manager support the creation of simple reports. These reports can be viewed online and subsequently printed in PDF for archiving purposes. These online reports differ from the information shown on the screen in the following ways:

- They do not contain any links;
- Graphics are replaced by text;
- Header and footer information is added to the report. This information includes (where appropriate) the database and file names and number, and the host names, as well as the time and date that the report was created;



Note: A PDF reader such as the Adobe Reader must be installed on your computer if you wish to view and print these files.

4 Database Administration

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This chapter describes how to administer databases and files with Adabas Manager. Common tasks include listing databases and files, starting/stopping databases, viewing and modifying database parameters, managing database containers, and viewing information about high water marks and buffer pools.

Accessing Database Administration

➤ To access database administration

- Click on the icon **Administer Adabas databases and files** on the Adabas Manager home page.
The Database Administration start screen is displayed.

Administering Databases

This section describes how to administer databases with Adabas Manager.

- [Listing Databases](#)
- [Creating a Database](#)
- [Database Creation Jobs](#)
- [Deleting a Database](#)
- [Renaming a Database](#)
- [Database Overview](#)
- [Starting a Database](#)
- [Stopping a Database](#)
- [Listing Files in a Database](#)
- [Database Parameters](#)
- [Database Properties](#)

Listing Databases

➤ To list databases

- When you log in to the Adabas Manager home page, the list of known databases to which you have access is displayed in the data area.

The databases are listed in ascending numerical order. The following information is displayed:

Column	Description
Database ID	The database number.
Database Name	The name of the database.
Connection Name	The name of the connection used to access Adabas Manager.
Status	The status of the database - online (green)/offline (red).
Version	The version of Adabas.

Next to each database there are also icons which can be used to start/stop, rename and delete the database.

Creating a Database

You can use Adabas Manager to create a new database. The button **New Database** is available above the list of known databases. Alternatively you can use the **Create New Database** link in the navigation area.

There are two options available when you create a new database:

- You specify the database number, the database name, and the host on which the database is to be created; Adabas Manager then provides default values for all other database details.
- If you open the tab **Database Details**, you can also specify the block size (in KB) and total size (in MB) of the containers ASSO1, ASSO2, DATA1 and WORK1 together with their respective path names. In addition, you can assign non-default file numbers to the Adabas system files (checkpoint, security and user data), and specify whether or not to load the demo database files.

➤ To create a database

- 1 Click the button **New Database** above the list of databases, or click on the link **Create New Database** in the navigation area. The Create New Database dialog is displayed.

Create New Database

Host

Database ID

Database Name

▶ Database Details

- 2 Enter the name of the host on which the database is to be created in the field **Host**, or select it from the drop-down list.
- 3 Enter the numerical ID for the database in the field **Database ID**. Values between 1 and 255 are permitted. Duplicate database IDs are not allowed on a single host.
- 4 Enter the name for the database in the field **Database Name**. The name must be between 1 and 16 characters long. Only alphanumeric characters are allowed; all special characters (with the exception of period ".", hyphen "-" and underscore "_") are not permitted.
- 5 If you do *NOT* want to specify further database details (see below), click on the button **Create** to create the new database.

Or:

If you want to specify further database details, click on the arrow on the left of the **Database Details** tab to open it, and continue as described below.

Database Details

Container	Block Size	Size	Full specified Path Name and Container Name
ASSO1	4 KB	10 MB	<input type="text"/> <input type="button" value="Browse..."/>
ASSO2	4 KB	10 MB	<input type="text"/> <input type="button" value="Browse..."/>
DATA1	4 KB	10 MB	<input type="text"/> <input type="button" value="Browse..."/>
WORK1	4 KB	10 MB	<input type="text"/> <input type="button" value="Browse..."/>

Adabas System Files

Checkpoint file number:	<input type="text"/>
Security file number:	<input type="text"/>
User Data file number:	<input type="text"/>

- Load Demo Files
- Background mode

- 6 Specify the block sizes, total sizes and path names for the containers ASSO1, ASSO2, DATA1 and WORK1, or click on the **Browse...** buttons to select paths from another directory/drive.

 **Note:** If you leave the path empty, the name will be set to the default value for the environment variable %ADADATADIR%.

- 7 By default, the Adabas checkpoint file, security file and user data file are assigned the numbers 1, 2 and 3 respectively. You can assign your own numbers by entering them in the corresponding text boxes. Valid values are between 1 and 32000 and must be unique in the database.
- 8 Tick the check box **Load Demo files** if you want to load the demo data files *Employees*, *Employees-Nat*, *Vehicles*, *Miscellaneous* and the associated LOB files into the new database.
- 9 Tick the check box **Background mode** if you want to create a very large database (container files >3GB). In this case, when you click on **Create**, a batch job is started in background mode, and the status of the job is displayed on the screen **Database Creation Jobs**.



Note: The check boxes **Load Demo files** and **Background mode** are mutually exclusive.

- 10 When you have specified all of the details that you want, click on the button **Create** to create the new database.

Database Creation Jobs

If you create a database in background mode (recommended for container files >3GB), an entry is made in the list of Database Creation Jobs.

➤ To view the Database Creation Jobs

- Click on the link **Database Creation Jobs** in the navigation area. The job list is displayed in the data area.

The following information is displayed:

Column	Description
Job	The name of the background job
Job Status	The status of the job (running, completed, failed)
User	The ID of the user who executed the job
Start Time	The date and time that the job was started
End Time	The date and time that the job completed
Delete	Delete the entry from the job list

The entries in the column **Job** are links - click on an entry to display details of the job in a pop-up.

You can delete individual entries by clicking on the waste basket icon () in the **Delete** column next to the entry that you want to delete.

Deleting a Database

You can use Adabas Manager to delete an existing database.



Notes:

1. The database to be deleted must be offline.
2. Adabas Manager cannot be used to delete a security database.

Deleting a database physically removes all of its container files, the DB_LIST entry in the *ADABAS.INI* file, the directory `..\Software AG\Adabas\dbnnn` (where *nnn* is the database number) and all of its associated files.



Caution: Deleting a database is permanent and irreversible. Therefore, Software AG strongly recommends that you create a backup copy of the database before it is deleted.

➤ To delete a database

- 1 Select the database that you want to delete by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the waste basket icon () in the **Delete** column next to the database that you want to delete.

The pop-up **Delete Database** dialog box is displayed. Click **Delete** to delete the database.

Renaming a Database

You can use Adabas Manager to rename a database.

The database to be renamed can be either online or offline.

➤ To rename a database

- 1 Select the database that you want to rename by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the edit icon () in the **Rename** column next to the database that you want to rename.

Enter the new name for the database in the text box in the **Database Name** column. The name must be between 1 and 16 characters long. Only alphanumeric characters are allowed; all special characters (with the exception of period ".", hyphen "-" and underscore "_") are not permitted.

- 3 Click on the green check mark to rename the database. Clicking on the red cross resets the name to the old name.

Database Overview

The database overview provides you with some basic information about a database. This information includes:

- The database status (online/offline);
- The database uptime;
- The current number of active users;
- Space allocation for ASSO, DATA and WORK:
 - The total size in MB;
 - The amount of free space in MB and in % (ASSO and DATA);
 - The size of the Protection Area and the Active Area in MB (WORK, only if the database is online);
 - The number of extents.

➤ To display a database overview

- Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.

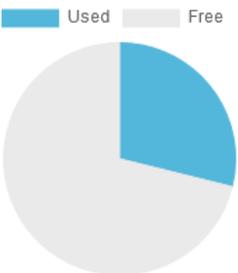
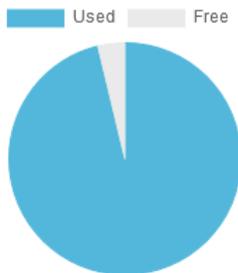
An overview of the database is displayed.

Overview of Database 98 (Documentation_DB)

- Stop Database
- Close CLOG
- Close PLOG
- Show adanuc.log

Database Status	Uptime	Active Users
Online	3h 11m 37s	1

Space Allocation

ASSO (block size < 16 KB)	ASSO (block size ≥ 16 KB)	DATA	WORK
Allocated Size [MB] 10.00	Allocated Size [MB] 10.00	Allocated Size [MB] 10.00	Allocated Size [MB] 10.00
Free Space [MB] 7.11	Free Space [MB] 9.28	Free Space [MB] 0.38	
Free Space [%] 71.13	Free Space [%] 92.81	Free Space [%] 3.75	
Extents 1	Extents 1	Extents 1	
			

Starting a Database

> To start a database

- 1 Select the database that you want to start by clicking on its DBID or Database Name in the list of databases (the database to be started must be offline, as indicated in the **Status** column).

An overview of the database to be started is displayed.

- 2 Click on the button **Start Database** in the data area.

Or:

Click on the start icon  in the column Start/Stop next to the database that you want to start in the Database List display.

Once the database has been successfully started, the database overview is updated to show the new online status.

Stopping a Database

> To stop a database

- 1 Select the database that you want to stop by clicking on its Database ID or Database Name in the list of databases (the database to be stopped must be online, as indicated in the **Status** column).

An overview of the database to be stopped is displayed.

- 2 Click on the stop icon  in the column Start/Stop next to the database that you want to stop in the Database List display. Alternatively, click on the button **Stop Database** in the database overview display. The pop-up **Stop Database** dialog box is displayed.

- 3 There are 3 options available for how the database is to be stopped:

- Shutdown;
- Cancel;
- Abort.

Click on the radio button of the option that you want to use, then click on the button **Stop** to stop the database.

Listing Files in a Database

> To list files in a database

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases. The database overview is displayed
- 2 Click on the link **File** above the navigation area. The list of files contained in the database is displayed in the data area.

By default, the files are listed in ascending numerical order. The following information is displayed:

Column	Description
FNR	The file number.
File Name	The name of the file.
File Type	The type of file (system file, LOB file, base file for LOB file). Blank entries indicate standard user files.
Loaded Records	The number of records loaded in the file.

Next to each file there are also icons which can be used to rename, renumber, refresh and delete the file (where applicable).

Database Parameters

Adabas Manager can be used to view/modify various database parameters. Before the parameters can be viewed/modified, you must first select the database to be used.

The parameters are displayed in 5 groups, according to their function - **Pools and Queues**, **Time Limits**, **Logging**, **Options** and **User Exits**. Groups can be opened/close by clicking on the name or on the arrows on the left side of each group.

> To view database parameters

- Click on the link **Parameters** in the navigation area. The parameters of the database are displayed in the data area.

The following information is displayed:

Column	Description
Description	A brief description of the parameter.
Parameter	The short parameter name.
Static Value	The current static value of the parameter.
Dynamic Value	The current dynamic value of the parameter.
Unit	The unit used to define the size/value of the parameter (where applicable).

Static and dynamic parameters behave as follows:

- The value of a static parameter is valid for the running database session. If you modify the value of a static parameter, you must stop and restart the database in order for the new value to apply.
- The value of a dynamic parameter is valid immediately from the time it is modified until the end of the running database session. If the database is stopped and restarted, the old static value of the parameter from the previous session is valid again. Dynamic parameters can only be modified while the database is active.
- If you modify both the dynamic and the static value for a parameter, the modified dynamic value applies until the database is stopped, and the new static value becomes valid when the database is started again.

Once the parameters have been displayed, you can use Adabas Manager to modify their values if required.

> To modify database parameters

- 1 Click on the short name of the parameter that you want to modify in the column **Parameter** in the data area.

The pop-up **Edit Parameter** dialog box is displayed - the example below shows the dialog box for the parameter Attached Buffer Area (LAB):

LAB

Minimum:	Maximum:	Default:
<input style="width: 80%;" type="text" value="1"/>	<input style="width: 80%;" type="text" value="2047"/>	<input style="width: 80%;" type="text" value="1"/>

Static Value:	Dynamic Value:
<input style="width: 90%;" type="text" value="1"/>	<input style="width: 90%;" type="text" value="-"/>

The dialog box contains information about the minimum, maximum and default values of the parameter (where applicable). It also shows the unit in which the size/value of the parameter is defined.

- 2 Enter the new valid value for the parameter in the **Static Value** text box, then click **Save** to change the value and return to the **Parameters** display, or click **Cancel** to return to the **Parameters** display without changing the value.

The **Save** button is not available if the text box contains an invalid value.



Note: In some cases, it is possible to modify both the dynamic and static value of the parameter; you can enter a new value for either one, or for the other or for both.

- 3 You can now repeat the first two steps to modify the values of any other parameters that you want to change.
- 4 Once you have modified all of the parameters that you want to change, click **Save** to permanently update the parameter values. Alternatively, click **Discard** to reset any modified parameters to their previous values.

Database Properties

Adabas Manager can be used to display various properties of a database. Before you can view the properties, you must first select the database from the database list.

➤ To display database properties

- Click on the link **Properties** in the navigation area. The properties of the database are displayed in the data area.

The following information is displayed:

Property	Meaning
Database Load Date	The date and time that the database was loaded.
Number of Loaded Files	The number of files loaded in the database.
Highest File Number	The highest number used for loaded files.
Checkpoint File	The number of the checkpoint file in the database.
Security File	The number of the security file in the database.
ET Data File	The number of the ET data file in the database.
Current PLOG Number	The number of the PLOG currently in use.
Number of DATA Extents	The number of DATA extents in the database.
Number of ASSO Extents	The number of ASSO extents in the database.
Character Set	The character set used by the database.
Byte Order	The byte order used by the database.
Floating Point Representation	The floating point representation used by the database.
Replication Files	The numbers of any replication files defined in the database (where appropriate).
Current CLOG Number	The number of the CLOG currently in use.
Current PLOG Count	The count of the PLOG currently in use.
Current PLOG Extent	The number of the PLOG extent currently in use.

Creating and Editing an FDT

This section describes how to create/edit a field definition table (FDT) with Adabas Manager.

Adabas Manager provides 3 ways in which you can edit an FDT:

- Create and edit a new FDT from scratch;
- Edit an existing FDT;
- Extract and edit an FDT from a file in a database.

See *Adabas Basics, FDT Record Structure* in the Adabas for Linux, UNIX and Windows documentation for information about the syntax and use of the data definitions to define the logical structure of the file in the database.

Editing a New FDT

You can create a new FDT by defining fields, one at a time, together with corresponding definition options. Options/definitions which are not allowed are disabled in the editor. In some cases, for example when you define a group at a given level, some options are automatically selected/disabled. Once you have defined a field, you can add it to the FDT, and then define the next field. When the FDT is complete, you can save it to a location that you choose.



Note: You can save the FDT at any time after at least one field has been added. You can edit the FDT again as described in [Editing an Existing FDT](#).

➤ To edit a new FDT

- 1 Click the link **Manage Databases**, then click on the link **Create FDT** in the navigation area. The Create Field Definition Table (FDT) screen is displayed.

Create Field Definition Table (FDT)

1 Select Method	2 Select FDT Source	3 Fill FDT	4 Save FDT	5 Complete
--------------------	------------------------	---------------	---------------	---------------

Select Method

- Create New FDT
- Read Existing FDT
- Read Existing Adabas File's FDT

Next

2 Select **Create New FDT** and click on the **Next** button. The Fill FDT Form dialog is displayed.

Create Field Definition Table (FDT)

1 Select Method	2 Select FDT Source	3 Fill FDT	4 Save FDT	5 Complete
--------------------	------------------------	---------------	---------------	---------------

Fill FDT Form

Only Upper Case Field Name

Level	Name	Format	Length	Options	Action
↓		Please Choose... ↓			+

Descriptors

Type	Name	Format	Length	Options	Action
Choose Type. ↓					+

Referential Integrity

Name	Foreign Key	Primary Key File	Primary Key Field	Options	Action
	↓				+

Back Next

3 Provide the following information for the first field that you want to include in the FDT:

- The level of the field (select from the **Level** list box).



Note: The level is selected automatically if the field is a member of a group.

- The name of the field in the field **Name**;
- The format type of the field (select from the **Format** list box);
- The length of the field in the field **Length**;

If you want to define date/time details for the field (e.g. local time zone, edit mask), click on the arrow on the right of the **Date/Time** tab to open it, and specify the definitions that you want for the field.

Specify further definition options that you want to use for the field by clicking on the edit icon  in the Options column next to the field, and selecting the corresponding check boxes.

Once you have finished defining the field, you can click on the plus sign (+) in the Action column to add a new field to the FDT. Clicking on the plus sign (+) next to a field that you have already defined will add a new field below the one that you select.

You can delete a field from the FDT by clicking on the waste bin icon  in the Action column next to the field that you want to delete. You are asked to confirm the deletion in a pop-up window.

- 4 Continue defining and adding fields to the FDT until the FDT is complete.
- 5 You can define special descriptors (subdescriptors, super descriptors, phonetic descriptors, hyperdescriptors and collation descriptors) by first selecting the type from the drop-down list under the heading **Descriptors**, and then supplying the appropriate definitions required for the descriptor type (field name, format, lengths and options).
- 6 Once you have added and defined all of the fields that you want, click on the **Next** button.

The Save FDT dialog is displayed.

Create Field Definition Table (FDT)

1 Select Method	2 Select FDT Source	3 Fill FDT	4 Save FDT
--------------------	------------------------	---------------	---------------

Save FDT

Hostname

FDT File

- 7 Select the host on which the FDT is to be saved from the **Hostname** drop-down list. Specify a name for the FDT file to be created in the **FDT File** text box. By default, the file will be created in the directory *C:\ProgramData\Software AG\Adabas*. Click on the **Browse** button to select a different directory and/or drive.
- 8 Click on the **Save** button to save the FDT to the specified location.

Editing an Existing FDT

➤ To edit an existing FDT

- 1 Click the link **Manage Databases**, then click on the link **Create FDT** in the navigation area. The Create Field Definition Table (FDT) screen is displayed.

Create Field Definition Table (FDT)

1 Select Method	2 Select FDT Source	3 Fill FDT	4 Save FDT	5 Complete
--------------------	------------------------	---------------	---------------	---------------

Select Method

- Create New FDT
 Read Existing FDT
 Read Existing Adabas File's FDT

Next

- 2 Select **Read existing FDT**, then click the **Next** button. The Read FDT from existing FDT File dialog is displayed.

Create Field Definition Table (FDT)

1 Select Method	2 Select FDT Source	3 Fill FDT	4 Save FDT	5 Complete
--------------------	------------------------	---------------	---------------	---------------

Read FDT from existing FDT File

Host

FDT File

Only Upper Case Field Name

- 3 Select the host on which the FDT to be edited resides from the **Hostname** drop-down list. Specify the name of the FDT file to be edited in the **FDT File** text box, or click on the **Browse** button to select an FDT from the default directory or from another directory/drive. Once you have selected an FDT, click on the **Select** button in the pop-up, then click on the **Next** button to load the FDT for editing.

You can now edit the FDT as described in the section [Editing a new FDT](#).

Editing an FDT From a File in a Database

You can use Adabas Manager to extract and edit an FDT from an existing file in a database; this might be useful, for example, for testing purposes.

The database containing the file that you want to use must be online.



Important: The original FDT of the file in the database is *not* altered in any way.

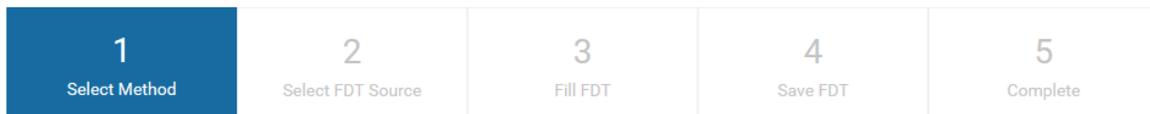


Note: The FDTs of system files cannot be displayed and edited.

> To extract and edit an FDT from a file in a database

- 1 Click the link **Manage Databases**, then click on the link **Create FDT** in the navigation area. The Create Field Definition Table (FDT) screen is displayed.

Create Field Definition Table (FDT)



Select Method

- Create New FDT
- Read Existing FDT
- Read Existing Adabas File's FDT

Next

- 2 Select **Read Existing Adabas File's FDT** then click the **Next** button. The Read FDT from existing Adabas File dialog is displayed.

Create Field Definition Table (FDT)

<p>1 Select Method</p>	<p>2 Select FDT Source</p>	<p>3 Fill FC</p>
----------------------------	--------------------------------	----------------------

Read FDT from existing Adabas File

Host

Database (online)

Adabas File

Only Upper Case Field Name

- 3 From the **Host** list box, select the name of the host on which the database you want to use is running. Then from the **Database** list box, select the database that contains the file that you want to use.
- 4 Click on the **Select** button next to the **Adabas File** field to display a list of available files in the selected database. Click on the file that you want to use, then click on the **OK** button.

This returns you to the Read FDT from existing Adabas File dialog

- 5 Click on the **Next** button to load the FDT for editing.

You can now edit the FDT as described in the section [Editing a new FDT](#).

Administering Files

This section describes how to administer files with Adabas Manager.

- [File Overview](#)
- [Adding a File](#)
- [Deleting a File](#)
- [Refreshing a File](#)
- [Renaming a File](#)
- [Renumbering a File](#)
- [Adding a LOB File](#)
- [Displaying the FDT of a File](#)
- [Changing the FDT of a File](#)
- [File Properties](#)
- [File Options](#)

File Overview

The file overview provides you with some basic information about a file. The information includes:

- The health status of the index;
- The number of records loaded in the file;
- The highest ISN (Top ISN) defined for the file;
- Space allocation for ASSO and DATA:
 - The allocated size in MB;
 - The amount of free space in MB and in %.

➤ To display a file overview

- Select the file that you want to use by clicking on its FNR or File Name in the list of files.

An overview of the file is displayed.

File 11 (EMPLOYEES-NAT) - Overview

Index Health Status	Records Loaded	Top ISN
Index correct	1107	1108

Space Allocation

ASSO			DATA		
Allocated Size	[MB]	1.1	Allocated Size	[MB]	1
Free Space	[MB]	0.59	Free Space	[MB]	0.75
Free Space	[%]	53	Free Space	[%]	75

Legend: Used (dark blue), Free (light blue)

Legend: Used (dark blue), Free (light blue)

Adding a File

You can use Adabas Manager to add a file to a database. The link **Add File** is available in the navigation area of the file list display. The database that contains the file to be added can be either online or offline.

> To add a file

- 1 Click on the link **Add File** in the navigation area of the file list for the database to which the file is to be added. Alternatively, click on the button **Add File** in the data area of the Files list.

The Add File dialog is displayed.

Add File on Database 98

FDT File	Select a FDT File	Browse
File Number	File Number	
File Name	File Name	
Maximum ISN	ISN	
LOB file number	LOB File Number	

▶ Additional Parameters

Add File Reset

- 2 Enter the name (including full path name) of the FDT to be used as input for the add file function in the **FDT File** text box, or click on the **Browse** button to select an FDT from the database's default directory or from another directory/drive.
- 3 Enter the file number for the new file in the field **File Number**. Values between 1 and 32000 are permitted. Duplicate database IDs are not allowed on a single host.
- 4 Enter the name for the new file in the field **File Name**. The name must be between 1 and 16 characters long. Only alphanumeric characters are allowed; all special characters (with the exception of period ".", hyphen "-" and underscore "_") are not permitted.
- 5 Enter the value for the maximum ISN in the field **Maximum ISN**. The default value is 5000.
- 6 Optional: enter the file number for the LOB file in the field **LOB file number**. If specified, a LOB file with the number given is generated and assigned to the base file to be created, and the base file is enabled for LOB processing.
- 7 If you do *NOT* want to specify further file parameters (see below), click on the button **Add File** to add the new file.

Or:

If you want to specify further file parameters, click on the arrow on the left of the **Additional Parameters** tab to open it, and continue as described below.

▼ **Additional Parameters**

Structure	Block Size
Data storage block size	0 ▼ KB
Address converter block size	0 ▼ KB
Normal index block size	0 ▼ KB
Upper index block size	0 ▼ KB

- 8 Specify the sizes, in KB, for the structures Data Storage, Address Converter, Normal Index and Upper Index.
- 9 When you have specified all of the parameters that you want, click on the button **Add File** to add the new file.

Deleting a File

You can use Adabas Manager to delete a file from a database. The database that contains the file to be deleted can be either online or offline.

Deleting a file physically removes the complete file (including the data records, the FDT and all administrative data) from the database. Deleting a file is permanent and irreversible. Therefore, it is recommended that you create a backup of a file before you delete it.



Note: The security file, system files, LOB files, Adabas replication system files and files with referential integrity (primary table) cannot be deleted using Adabas Manager. However, if you delete a base file, the LOB file associated with it will also be deleted.

> **To delete a file**

1 Click on the waste bin icon  in the column Delete in the Files list next to the file that you want to delete.

The pop-up **Delete File** dialog box is displayed.

2 Click on the button **Delete** to delete the file.

Refreshing a File

You can use Adabas Manager to refresh a file in a database. The database that contains the file to be refreshed can be either online or offline.

Refreshing a file resets it to the state of zero records loaded. All data records are deleted, and only the first extents for Normal Index, Address Converter and Data Storage are kept. Refreshing a file is permanent and irreversible. Therefore, it is recommended that you create a backup of a file before you refresh it.



Note: The security file, system files, LOB files, Adabas replication system files and files with referential integrity (primary table) cannot be refreshed using Adabas Manager. However, if you refresh a base file, the LOB file associated with it will also be refreshed.

> **To refresh a file**

1 Click on the eraser icon  in the column Refresh in the Files list next to the file that you want to refresh.

The pop-up **Refresh File** dialog box is displayed.

2 Click on the button **Refresh** to refresh the file.

Renaming a File

You can use Adabas Manager to rename a file in a database. The database that contains the file to be renamed can be either online or offline.

> To rename a file

- 1 Click on the edit icon  in the column Rename in the Files list next to the file that you want to rename.
- 2 Enter the new name for the file in the text box in the **File Name** column. The name must be between 1 and 16 characters long. Only alphanumeric characters are allowed; all special characters (with the exception of period ".", hyphen "-" and underscore "_") are not permitted..
- 3 Click on the green check mark to rename the file. Clicking on the red cross resets the name to the old name.

Renumbering a File

You can use Adabas Manager to renumber a file in a database. The database that contains the file to be renumbered can be either online or offline.

> To renumber a file

- 1 Click on the edit icon  in the column Renumber in the Files list next to the file that you want to renumber.
 - 2 Enter the new number for the file in the text box in the **FNR** column. The number must be between 1 and 32000.
 - 3 Click on the green check mark to renumber the file. Clicking on the red cross resets the number to the old number.
-  **Caution:** If the file's new number is already assigned to another file in the same database, the numbers of the files concerned will be exchanged when you click on the green check mark.

Adding a LOB File

You can use the Adabas Manager to add a LOB file to a base file in a database. The base file must not already have an assigned LOB file. Once the LOB file is successfully added, the base file is enabled for LOB processing.



Note: A LOB file cannot be added to a system file.

> To add a LOB file

- 1 Select the base file to which you want to add the LOB file by clicking on its FNR or File Name in the list of files.
- 2 Click on the link **Add LOB File** in the navigation area.

The **Add LOB File** dialog is displayed.

File 11 (EMPLOYEES-NAT) - Add LOB File

LOB file number:

▶ Additional Parameters

Add LOB File

Cancel

- 3 Enter the number for the LOB file in the field **LOB file number**. The number must be between 1 and 32000.
- 4 If you do *NOT* want to specify further file parameters (see below), click on the button **Add LOB File** to add the LOB file to the base file.

Or:

If you want to specify further file parameters, click on the arrow on the left of the **Additional Parameters** tab to open it, and continue as described below.

▼ **Additional Parameters**

Structure	Block Size
Data storage block size	<input style="width: 40px; text-align: center;" type="text" value="0"/> ▼ <input style="width: 40px; text-align: center;" type="text" value="KB"/>
Address converter block size	<input style="width: 40px; text-align: center;" type="text" value="0"/> ▼ <input style="width: 40px; text-align: center;" type="text" value="KB"/>
Normal index block size	<input style="width: 40px; text-align: center;" type="text" value="0"/> ▼ <input style="width: 40px; text-align: center;" type="text" value="KB"/>
Upper index block size	<input style="width: 40px; text-align: center;" type="text" value="0"/> ▼ <input style="width: 40px; text-align: center;" type="text" value="KB"/>

- 5 Specify the sizes, in KB, for the structures Data Storage, Address Converter, Normal Index and Upper Index.
- 6 When you have specified all of the parameters that you want, click on the button **Add LOB File** to add the LOB file to the base file.

Displaying the FDT of a File

You can use Adabas Manager to display the Field Definition Table (FDT) of a file. The link **Field Definition Table (FDT)** is available in the navigation area. The database that contains the file for which the FDT is to be displayed must be online. Before the FDT can be displayed, you must first select the file from the Files list.

» To display the FDT of a file

- Click on the link **Field Definition Table (FDT)** in the navigation area. The FDT of the file is displayed in the data area.

File 12 (VEHICLES) - Field Definition Table (FDT)

Enter Edit Mode

Level	Field	Format	Length	Options
1	AA	A	15	DE NU UQ
1	AB	B	4	FI
1	AC	A	8	DE NC
1	CD	GR		
2	AD	A	20	DE NU
2	AE	A	20	NU
2	AF	A	10	DE NU
1	AG	U	4	NU
1	AH	A	1	DE FI
1	AI	A	1	FI

Changing the FDT of a File

You can use Adabas Manager to change the Field Definition Table (FDT) of a file. The button **Enter Edit Mode** is available above the FDT display. The database that contains the file for which the FDT is to be changed must be online.



Caution: Changing the FDT of a file may mean that applications accessing the file no longer work, or no longer work correctly. Software AG strongly recommends that you make a backup of the file (for recovery purposes) before you change the FDT.

» To change the FDT of a file

- 1 Click on the button **Enter Edit Mode** above the FDT display in the data area. The FDT of the file to be changed is loaded in the data area. You can now edit the loaded FDT as described in the section *Editing a new FDT*.
- 2 Once you have made all of the changes that you want, click on the **Exit Edit Mode** button to save the FDT.

File Properties

Adabas Manager can be used to view various properties of a database file. Before the properties can be viewed, you must first select the file from the file list.

> To display file properties

- Click on the link **File Properties** in the navigation area. The properties of the file are displayed in the data area.

The following information is displayed:

Property	Meaning
File Number	The number of the file in the database.
File Name	The name of the file.
Number of Loaded Records	The number of records currently loaded in the file.
Top ISN	The number of the highest ISN used for the file
Maximum ISN	The number of the highest ISN expected for the file.
File Load Date	The date and time that the file was loaded into the database.
FDT Modification Time	The time and date that the FDT was last modified (displayed even if empty).
File Definition Options	The file definition options that apply to the file.
High Index RABN	The highest RABN in the index.
High Index Level	The highest level used in the index.

File Options

Adabas Manager can be used to view and modify the following file options:

File Option	Meaning
ISN_REUSAGE	Reuse of ISNs by Adabas
SPACE_REUSAGE	Reuse of data storage space by Adabas
PROGRAM_REFRESH	Refresh file from within an application

The following restrictions apply when you modify the file options:

- ISN_REUSAGE cannot be changed if the database is offline;
- SPACE_REUSAGE cannot be changed if the database is offline;
- PROGRAM_REFRESH cannot be changed if the file is defined as a primary table for referential integrity, or if it is a LOB file.

➤ **To view file options**

- Click on the link **File Options** in the navigation area. The options of the file are displayed in the data area.

The value of each option can be either enabled or disabled.

➤ **To modify file options**

- Click on the edit icon to the right of the file option that you want to modify in the Options data area.

Radio buttons for enabling/disabling the selected option are displayed. Select the new value for the option, and click on the green check mark to save the new value.

Miscellaneous Administration Tasks

This section describes the miscellaneous administration tasks that you can perform with Adabas Manager.

- [Close CLOG/PLOG File](#)
- [Display the Adanuc Log File](#)
- [Queues](#)
- [Managing Database Containers](#)
- [High Water Marks](#)
- [Buffer Pool Statistics](#)
- [Command Statistics](#)
- [Thread Table](#)
- [Checkpoints](#)
- [Utility Communication Block](#)

Close CLOG/PLOG File

You can use Adabas Manager to close the current command log file (CLOG) and/or protection log file (PLOG), and to open a new log file of the same type. In the case of the PLOG, you can also optionally specify that Adabas Manager waits until all currently active ET logic users come to ET status before the file is closed. The database in question must be online.

➤ **To close the CLOG/PLOG file**

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.

2

- 3 Select the check box **Close currently used CLOG file** to close the current command log file and open a new one.
- 4 Select the check box **Close currently used PLOG file** to close the protection log file and open a new one.

Also select the check box **Close with ET_SYNC option** if you want Adabas Manager to wait for all currently active ET logic users to come to ET status before the PLOG file is closed.

- 5 Click on the button **OK** to close the CLOG/PLOG file(s).

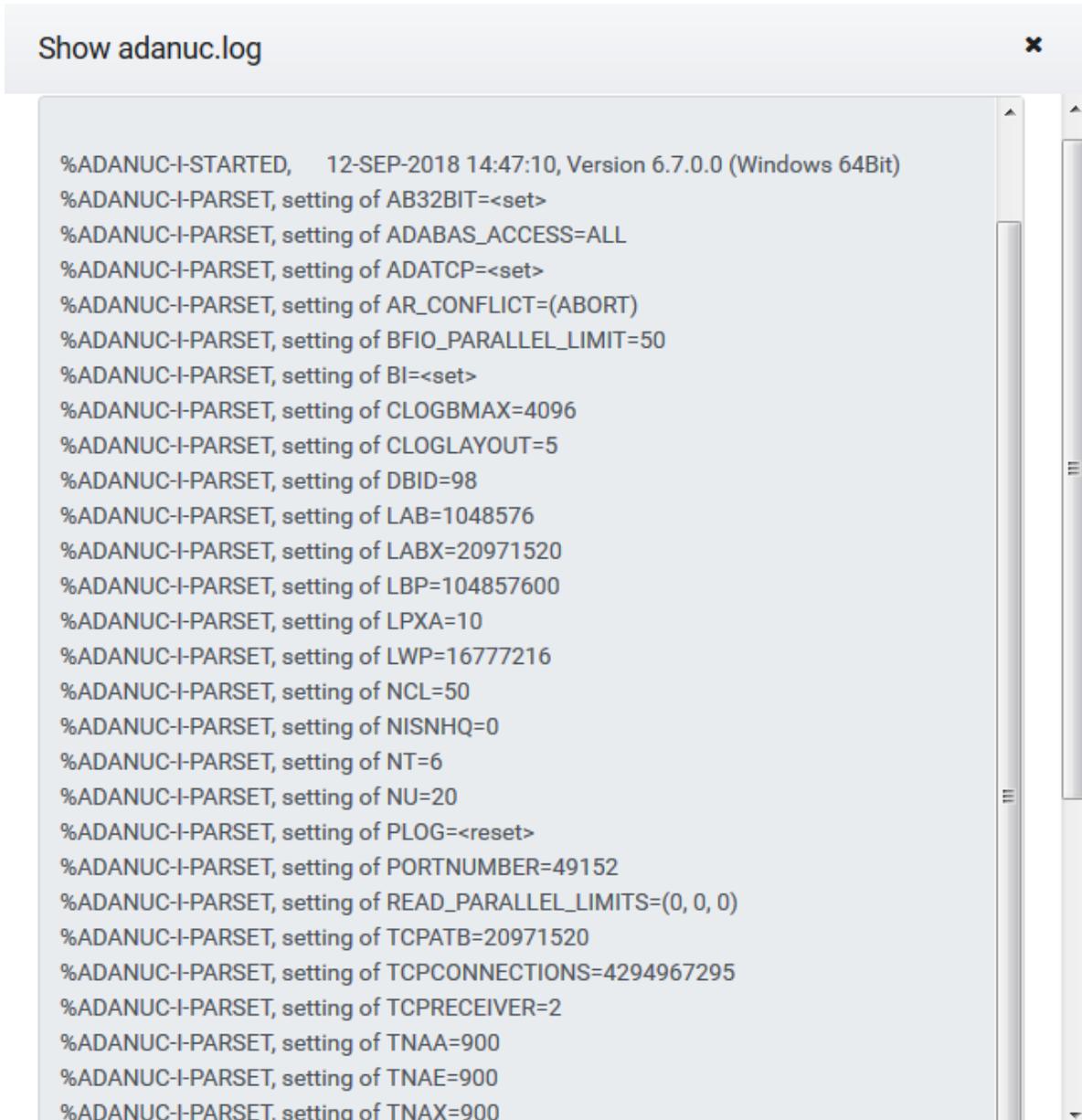
Display the Adanuc Log File

You can use Adabas Manager to display the contents of the *adanuc.log* file. This file contains information about the settings of various nucleus parameters and options for the database selected.

➤ To display the *adanuc.log* file

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the button **Show *adanuc.log*** in the database overview screen.

The contents of the file are displayed in a pop-up.

A screenshot of a window titled "Show adanuc.log" with a close button (X) in the top right corner. The window contains a list of system startup logs for ADANUC. The logs are as follows:

```
%ADANUC-I-STARTED, 12-SEP-2018 14:47:10, Version 6.7.0.0 (Windows 64Bit)
%ADANUC-I-PARSE, setting of AB32BIT=<set>
%ADANUC-I-PARSE, setting of ADABAS_ACCESS=ALL
%ADANUC-I-PARSE, setting of ADATCP=<set>
%ADANUC-I-PARSE, setting of AR_CONFLICT=(ABORT)
%ADANUC-I-PARSE, setting of BFIO_PARALLEL_LIMIT=50
%ADANUC-I-PARSE, setting of BI=<set>
%ADANUC-I-PARSE, setting of CLOGBMAX=4096
%ADANUC-I-PARSE, setting of CLOGLAYOUT=5
%ADANUC-I-PARSE, setting of DBID=98
%ADANUC-I-PARSE, setting of LAB=1048576
%ADANUC-I-PARSE, setting of LABX=20971520
%ADANUC-I-PARSE, setting of LBP=104857600
%ADANUC-I-PARSE, setting of LPXA=10
%ADANUC-I-PARSE, setting of LWP=16777216
%ADANUC-I-PARSE, setting of NCL=50
%ADANUC-I-PARSE, setting of NISNHQ=0
%ADANUC-I-PARSE, setting of NT=6
%ADANUC-I-PARSE, setting of NU=20
%ADANUC-I-PARSE, setting of PLOG=<reset>
%ADANUC-I-PARSE, setting of PORTNUMBER=49152
%ADANUC-I-PARSE, setting of READ_PARALLEL_LIMITS=(0, 0, 0)
%ADANUC-I-PARSE, setting of TCPATB=20971520
%ADANUC-I-PARSE, setting of TCPCONNECTIONS=4294967295
%ADANUC-I-PARSE, setting of TCPRECEIVER=2
%ADANUC-I-PARSE, setting of TNA=900
%ADANUC-I-PARSE, setting of TNAE=900
%ADANUC-I-PARSE, setting of TNAX=900
```

- 3 Click on the button **Refresh** in the pop-up to refresh the contents.

Queues

Adabas Manager can be used to display the user queue and the command queue for a selected database. The displays are static, but can be refreshed manually with the **Refresh List** function. In the case of the user queue, you can also select user queue elements from the display (also using optionally-defined filters) and stop them.



Note: The user queue and the command queue can only be displayed if the selected database is online.

User Queue

> To display the user queue

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **User Queue** in the navigation area. The list of currently active user queue elements for the database is displayed in the data area.

The following information is displayed:

Column	Description
Identifier	The internal user identification.
User ID	The user identification.
Host Name	The name of the host on which the selected database is running.
Login ID	The login identification string of the user.
Type	The user type.
Status	The current status of the user.
Time Stamp ID	The time and date when the user queue element was created.

Once you have displayed the user queue, you can select one or more user queue elements from the display in order to stop them.

> To stop one or more user queue elements

- 1 Select a user queue element that you want to stop by ticking the check box next to its identifier. You can select all of the user queue elements at one go by ticking the first check box at the top of the list.

Or:

You can also select the user queue elements on the basis of a user-defined filter.

Enter the filter criteria that you want to use in the text box above the respective column. Multiple criteria are connected with a logical "and".

- 2 Once you have selected the user queue element(s), click the **Stop User** button above the display of user queue elements.

The pop-up Stop User dialog box, which contains details of the selected user queue elements, is displayed.

- 3 Click the **Yes** button to stop the selected user queue element(s).

Command Queue

» To display the command queue

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Command Queue** in the navigation area. The list of currently active commands for the database is displayed in the data area.

The following information is displayed:

Column	Description
Number	The number of the command.
Host Name	The name of the host on which the selected database is running.
APU	The assigned Adabas Processing Unit of the command queue entry.
Login ID	The login identification string of the user.
Process ID	The process ID of the command.
Command	The command string.
File	The file number.
Status	The current status of the command.

Managing Database Containers

Adabas Manager can be used to view information about and manage (add/remove) the containers defined for a database. Containers include the Associator (ASSO), Data Storage (DATA), and Work (WORK) containers.

- [Listing Container Information](#)
- [Adding Containers](#)

- [Deleting Containers](#)

Listing Container Information

➤ **To list container information for a database:**

- Click on the link **Container** above the database overview screen.

The list of containers is shown in the data area.

The following table describes the data displayed in the data area.

Column	Description
Container	The name of the container.
Block Size (KB)	The block size of the container in kilobytes (KB).
Container Size (MB)	The size of the container in megabytes (MB).
Free Space (MB)	The available free space in the container in megabytes (MB).
Free Space (%)	The available free space in the container as a percentage of the total container size.
First RABN	The first relative Adabas block number (RABN) in the container.
Last RABN	The last RABN in the container.
Path	The path name of the container file.

Adding Containers

You can only add a new ASSO or DATA container. You cannot add a new WORK container.

➤ **To add a new ASSO or DATA container:**

- 1 Click on the link **Add Container** in the navigation area. Alternatively, Click the **Add Container** button at the top of the Containers list.

The **Add Container** dialog box is displayed.

Add Container for Database 98

Container Name

Block Size KB

Container Size MB

Path [Browse...](#)

Background mode

[Add Container](#) [Reset](#)

- 2 Select the name of the new container from the **Container Name** field drop-down list. The list only contains the next valid names for the container types ASSO and DATA (e.g. DATA3 if DATA1 and DATA2 already exist). The path from the preceding ASSO/DATA container is provided as default.
- 3 Select the block size (in KB) for the new container from the **Block Size** drop-down list.
- 4 Enter the size of the new container (in MB) in the **Container Size** text box.
- 5 Enter the path for the new container in the **Path** text box, or click on the **Browse...** button to select a path name.
- 6 If you are adding a very large container, you can add it asynchronously - in this case, select the check box **Background mode**.
- 7 Click the **Add Container** button to add the new container.

The container is added.

Deleting Containers

You can delete ASSO and DATA containers if they are no longer needed. Only the last, empty ASSO or DATA container of a database can be deleted. The containers ASSO1, DATA1 and WORK1 cannot be deleted.



Note: The database must be offline before you can delete a container.

> To delete a ASSO or DATA container:

- 1 Click the waste bin icon  next to the container that you want to delete in the Container list.

- 2 The pop-up **Delete container** dialog box is displayed. Click **Delete** to delete the container.

High Water Marks

You can use Adabas Manager to display the highest recorded values for some database parameters. The information is displayed for the parameter groups Queues and Threads, Buffers and Pools, and Miscellaneous. The information includes the description and name of the parameter (together with the units, where appropriate), the maximum size or value allocated, the size or value that is currently in use, the maximum size or value used during the current database session (the so-called high water mark), the high water mark as a percentage of the size or value allocated, as well as the date and time that the high water mark occurred.



Note: You can only display high water marks for a database that is online.

> To display the high water marks

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **High Water Marks** in the navigation area. The information about the high water marks is displayed in the data area.

Buffer Pool Statistics

You can use Adabas Manager to display statistics about the buffer pool. These statistics are for the categories Pool Allocation, I/O Statistics, Buffer Flushes and RABNs Present. The total amount of space allocated to the buffer pool (in MB) is also displayed. In addition, the statistics for Size Allocation and Buffer Pool Hit Rate are displayed graphically.



Note: You can only display buffer pool statistics for a database that is online.

> To display the buffer pool statistics

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Buffer Pool Statistics** in the navigation area. The buffer pool statistics are displayed in the data area.

Command Statistics

You can use Adabas Manager to display statistics about the Adabas commands issued during the current database session. These statistics are available for the command category (read, find, modify, transaction and special) and for each Adabas command (A1, BT, C1 ... S9). The table below shows which category contains which Adabas commands:

Category	Adabas Commands
Read	L1, L2, L3, L4, L5, L6, L9
Find	S1, S2, S4, S8, S9
Modify	A1, C1, C5, E1, N1, N2
Transaction	BT, CL, ET, OP, RE
Special	C3, HI, LF, MC, RC, RI

For the command categories, the statistics are available for the number of commands in each category, and as a percentage of the total number of all commands. The information is displayed as a bar chart.

For the individual commands, the statistics are available as the number of commands of each type, and as percentages of both the total number in each category and of the total number of all commands. The information is displayed in a table.



Notes:

1. You can only display command statistics for a database that is online.
2. Because of integer truncation, the individual percentages may not always add up to 100%.

> To display the command statistics

1. Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
2. Click on the link **Command Statistics** in the navigation area. The command statistics are displayed in the data area.

Thread Table

You can use Adabas Manager to display information about the entries in the thread table of a database. The information includes the thread number, the Adabas Processing Unit (APU) associated with the thread (if the database parameter APU is set), the total number of commands processed by the thread, the file number of the command that is currently being processed by the thread, the command string of the command that is currently being processed by the thread, and the status of the thread.



Note: You can only display the entries in the thread table for a database that is online.

> To display the thread table

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Thread Table** in the navigation area. The information about the thread table entries is displayed in the data area.

Checkpoints

You can use Adabas Manager to display the entries in the checkpoint file of a database. The information includes the checkpoint number (consecutively numbered, the most recent checkpoint is number 1), the checkpoint type, the time and date it was made, and the number of the nucleus session in which it was made. The entries in the checkpoint file can also be filtered according to checkpoint type and starting date.

In addition, you can select and delete entries from the checkpoint file.

> To display, filter and delete entries in the checkpoint file

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Checkpoints** in the navigation area. The information about the checkpoint entries is displayed in the data area. By default, the entries are displayed in blocks of 25 - use the controls at the top of the display to move forwards/backwards in the list.

Once you have displayed the contents of the checkpoint file, you can position the display to start at a selected date and/or mark a certain type of checkpoint.

- 3 Enter a starting date in the **Date** text box (in the format YYYY-MM-DD), or click on the calendar icon next to the **Date** text box and select a starting date. Click the **Position to date** button to start the display at the selected date; the entries made on the selected date are marked in light blue.

Or:

Once you have positioned to a starting date, you can delete the marked entries by clicking the **Delete Checkpoint** button; the pop-up **Delete Checkpoint** dialog box is displayed. Click **Delete** to delete the checkpoints.



Note: Software AG strongly recommends that you make a backup of the database/checkpoint file before deleting the entries - deleting checkpoints is a permanent action that cannot be reversed.

Utility Communication Block

You can use Adabas Manager to display and delete entries in the utility communication block (UCB) of a database. The UCB is used to control access to certain resources (the whole database, or one or more files) within a database. It saves information about the Adabas utilities processing the database and the resources attached to them. The information displayed includes the entry ID, the name of the utility, the mode in which the files are being accessed, the file numbers of the files being processed by the utility, and the creation date at which the entry was made.

➤ To display and delete entries in the utility communication block

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utility Communication Block** in the navigation area. The information about the UCB entries is displayed in the data area.
- 3 If you want to delete an entry from the UCB, tick the check box in the column on the left of its entry ID (alternatively you can select all entries by ticking the check box on the left of the header line of the table). Then click the **Delete Entry** button; the pop-up **Delete Entry** dialog box is displayed. Click **Delete** to delete the selected UCB entry/entries.

Adabas Utilities

Adabas Manager can be used to execute Adabas utilities from within Database Administration. They can be accessed and executed in a GUI-based form (for backup, restore, export, import, unload and load), or via the so-called Expert Utility Call (ADABCK, ADACMP, ADADBM, ADADCU, ADAFDU, ADAFIN, ADAMUP, ADAOPR, ADAORD, ADAREP, and ADAULD). There is also an option to generate and save a script for the utility call, which contains the parameters and values used in the call; this script can then be executed at a later time.

In order to access/use the utilities, you must first select a database.



Note: Some Adabas utilities contain functionality for modifying or deleting existing database information, so caution is advised when these utilities are used. Some utilities, such as ADAREP, provide status information only, and can be used freely.

➤ To access the Adabas utilities

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen. The available utilities are listed in the navigation area, and the utilities job list is displayed in the data area.

Job ^	Job Status ⇅	User ⇅	Start Time ⇅	End Time ⇅	Delete
Filter Job	Filter Job Sta	Filter User	Filter Start Time	Filter End Time	
ADAULD	Finished	admin	2018-Aug-27 13:43:24:463 UTC	2018-Aug-27 13:43:24:712 UTC	
ADAOPR	Finished	admin	2018-Sep-03 07:59:37:093 UTC	2018-Sep-03 07:59:37:233 UTC	
ADAOPR	Finished	admin	2018-Sep-03 08:00:18:168 UTC	2018-Sep-03 08:00:18:231 UTC	
ADAFRM	Finished	admin	2018-Sep-05 08:29:34:814 UTC	2018-Sep-05 08:29:34:954 UTC	

The job list contains the following information: the name of the job, the job status, the ID of the user who started the job, the date and time at which the job was started, and the date and time at which the job was completed.

You can display the output of a job that has been run by clicking on the name of the job in the list, the details are displayed in a pop-up window.

Individual jobs can be deleted by clicking on the waste basket icon  at the end of a row.

- [Backup](#)
- [Restore](#)
- [Export](#)
- [Import](#)
- [Unload](#)
- [Load](#)

- [Expert Utility Call](#)

Backup

The Backup function writes a backup copy of the selected database or selected files from the database to a file. The database may be active while the backup copy is made.

➤ To back up a database or selected files

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen, then click on the link **Backup** in the navigation area. The Backup dialog is displayed in the data area.

Backup

Backup Complete Database
 Backup Selected files

Backup with exclusive File Access
 Create new Protection log

ET SYNC wait time

Backup output file

- 3 By default, a backup copy of the complete database is made. If you only want to back up selected files, click on the **Backup Selected files** radio button, then click on the **Select** button; the **Select Adabas Files** dialog appears in a pop-up window.

Select Adabas File(s) ✕

Select	FNR	File Name	File Type	Loaded Records
<input type="checkbox"/>	1	CHECKPOINT-FILE	System file	19
<input type="checkbox"/>	2	SECURITY-FILE	System file	0
<input type="checkbox"/>	3	USER-DATA-FILE	System file	0
<input type="checkbox"/>	9	EMPLOYEES		1272
<input type="checkbox"/>	11	EMPLOYEES-NAT		1107
<input type="checkbox"/>	12	VEHICLES		773
<input type="checkbox"/>	13	MISCELLANEOUS		1779
<input type="checkbox"/>	14	LOBFILE of 9		210

Selected Adabas File:

OK

Click on the checkbox at the top left of the pop-up window to select/deselect all files in the list. Click on the checkboxes next to the file numbers to select/deselect individual files. The list of files that have been selected is displayed in the **File selected** text box. Click on the **OK** button to complete the file selection.



Note: If you select the base file of a LOB file, the associated LOB file will also be selected automatically.

- 4 Click on the **Backup with exclusive File Access** checkbox if you want only ACC users (read-only) to have access to the database/selected files while the backup is in progress.
- 5 If you are backing up a complete database, by default, the current protection log file is closed and new protection log file is created once the backup has completed; you should uncheck the **Create new Protection log** checkbox if you don't want to close the current protection log and create a new one. If you are backing up selected files, you should click on the **Create new Protection log** checkbox if you do want to close the current protection log file and create a new one.
- 6 Click on the **ET SYNC wait time** checkbox if you want to specify a time (in seconds) allowed for ET-logic users to come to ET status at the end of the backup function. This option is not available if you have checked the **Backup with exclusive File Access** checkbox.
- 7 Specify a name for the backup file to be created in the **Backup output file** text box; you cannot specify a file that already exists. By default, the backup will be created in the directory of the selected database. Click on the **Browse...** button to select a different directory and/or drive.
- 8 Click on the **Execute Backup** button to create the backup.

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different

directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

- Click on the **Close** button in the job details pop-up window to return to the Backup dialog, or click on the **Exit** button to return to the Adabas Utilities job list

Restore

The Restore function restores the contents of a database or selected files from an Adabas backup copy.

» To restore a database or selected files

- Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- Click on the link **Utilities** above the database overview screen, then click on the link **Restore** in the navigation area. The Restore dialog is displayed in the data area.

- Enter the name (including full path name) of the backup file to be used as input for the restore function in the **RESTORE input file** text box, or click on the **Browse...** button to select an input file from the database's default directory or from another directory/drive. Once you have selected a file, you can click on the **Show...** button to show the contents/summary of the input file that you have selected; the contents/summary are displayed in a pop-up window, click on **Close** to close the pop-up.
- Click on the **Restore Complete Database** radio button to restore the complete database.

Or:

Click on the **Restore Selected files** radio button to restore only selected files; click on the **Select...** button to open the **Select Adabas Files to Restore** dialog in a pop-up window. Select the files that you want to restore by checking the check box next to the file numbers; check the checkbox in the header of the table to select all files. The file numbers of the files you select

are displayed in the **Selected file** text box. Click on the **OK** button to close the **Select Adabas Files to Restore** pop-up and return to the main Restore dialog.



Note: If you select the base file of a LOB file, the associated LOB file will also be selected automatically.

- 5 Check the **Replace Existing File** checkbox if you want to restore files that are already loaded in the database. In this case, the file in the database is explicitly deleted and then replaced by the copy of the file from the restore input file.
- 6 Click on the **Execute Restore** button to restore the database.

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

Export

The Export function exports (copies) one or more files from the database to a sequential output file. The output file can subsequently be used as an input file for the Import function. You can use the Export/Import functions together to migrate files between databases.

➤ To export one or more files from a database

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen, then click on the link **Export** in the navigation area. The Export dialog is displayed in the data area.

Export

Database Files to Export

Sort Sequence
 Physical Sequence
 ISN Sequence
 by Descriptor

Export Output File

- Click on the **Select...** button to open the **Select Adabas Files to export** dialog in a pop-up window. Select the files that you want to export by checking the check box next to the file numbers. The file numbers of the files you select are displayed in the **Selected Adabas File** text box. Click on the **OK** button to close the **Select Adabas Files to export** pop-up and return to the main Export dialog.



Note: If you select the base file of a LOB file, the associated LOB file will also be selected automatically.

- Select the sequence in which the Data Storage will be processed by clicking on the corresponding Sort sequence radio button, the following sequences are available:
 - Physical sequence - the data records are processed in the physical sequence in which they are stored in the Data Storage.
 - ISN sequence - the data records are processed in ascending ISN sequence.
 - By Descriptor - the data records are processed in ascending logical sequence of the descriptor values to which the field name refers. Enter the name of the descriptor that you want to use in the text box next to the radio button.
- Specify a name for the export file to be created in the **Export Output File** text box; you cannot specify a file that already exists. By default, the export file will be created in the directory of the selected database. Click on the **Browse...** button to select a different directory and/or drive.
- Click on the **Execute Export** button to export the selected files.

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different

directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

Import

The Import function imports one or more files into a database, using the data in the sequential file produced by a previous run of the Export function. You can use the Export/Import functions together to migrate files between databases.

➤ To import one or more files into a database

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen, then click on the link **Import** in the navigation area. The Import dialog is displayed in the data area.

Import

IMPORT input file: Browse... Show...

Number of files to import: Single file Multiple files

File Number(s): Select... Max ISN:

New File Number:

New LOB File Number: LOB Size: MB

▶ **Additional Parameters**

Execute Import Create Script

- 3 Enter the name (including full path name) of the backup file to be used as input for the restore function in the **IMPORT input file** text box, or click on the **Browse...** button to select an input file from the database's default directory or from another directory/drive. Once you have selected a file, you can click on the **Show...** button to show the contents/summary of the input file that you have selected; the contents/summary are displayed in a pop-up window, click on **Close** to close the pop-up.
- 4 Click on the corresponding **Number of files to import** radio button to import either a single file or multiple files.
- 5 If you are importing multiple files, click on the select button next to the **File Number(s)** text box to open the **Select Files for Import** dialog in a pop-up window. Select the files that you want to import by checking the check box next to the file numbers; check the checkbox in the

header of the table to select all files. The file numbers of the files you select are displayed in the **File Selected** text box. Click on the **OK** button to close the **Select Files for Import** pop-up and return to the main Export dialog.

- 6 If you are importing a single file, click on the select button next to the **File Number:** text box to open the **Select Adabas Files to import** dialog in a pop-up window. Select the file that you want to import by checking the check box next to the file number. Click on the **OK** button to close the **Select Adabas Files to import** pop-up and return to the main Export dialog. If a file with the same number already exists in the database, enter the new number to be assigned to the file in the **New File Number** text box. The optional text box **New LOB File Number** specifies the new file number for the LOB file; if no number is specified, the LOB file number (if it exists) remains unchanged. The optional text box **Max ISN** is used to specify the highest permissible ISN for the file; if no number is entered, the value of MAXISN currently in effect for the file's Address Converter is used. The optional text box **LOB Size** is used to specify the number of megabytes to be initially assigned to the LOB file's Data Storage.

Clicking on the arrow on the left of **Additional Parameters** provides you with further options to specify the sizes, RABNs and LOB RABNs for the Data Storage, Address Converter, Normal Index and Upper Index, as well as the padding factors for ASSO and DATA for the new file.

- 7 Click on the **Execute Import** button to import the selected file(s).

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

Unload

The Unload function unloads data from a file in a database. The output can be subsequently used as input for the Load function.

➤ To unload data from a file in a database

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen, then click on the link **Unload**. The Unload dialog is displayed in the data area.

Unload

Unload database file number	<input type="text"/>	<input type="button" value="Select..."/>
Sort sequence	<input checked="" type="radio"/> Physical Sequence <input type="radio"/> ISN Sequence <input type="radio"/> by Descriptor	
Number of records to skip	<input type="text"/>	
Maximum number of records to unload	<input type="text"/>	
Unload Options	<input type="radio"/> Data only <input type="radio"/> Data and descriptors into a single file <input checked="" type="radio"/> Data and descriptors into 2 separate file	
Unload data output file	<input type="text" value="C:\ProgramData\Software AG\Adabas\db098\ULDDTA"/>	<input type="button" value="Browse..."/>
Unload descriptor file	<input type="text" value="C:\ProgramData\Software AG\Adabas\db098\ULDDVT"/>	<input type="button" value="Browse..."/>

▶ Additional Parameters

- 3 Enter the file number of the file that you want to unload in the **Unload database file number** text box, or click on the **Select...** button to open the Select Adabas File dialog in a pop-up window; select the file you want to unload by clicking on it, then click on the **OK** button to return to the main Unload dialog.
- 4 Select the sequence in which the data will be unloaded by clicking on the corresponding **Sort sequence** radio button, the following sequences are available:
 - Physical sequence - the data records unloaded in the physical sequence in which they are stored in the Data Storage.
 - ISN sequence - the data records are unloaded in ascending ISN sequence.
 - by Descriptor - the data records are unloaded in ascending logical sequence of the descriptor values to which the field name refers. Enter the name of the descriptor that you want to use in the text box next to the radio button.
- 5 If you only want to unload some of the data records, enter the number of records to be skipped before unloading begins in the **Number of records to skip** text box. You can also limit the maximum number of records to be unloaded; enter the value in the **Maximum number of records to unload** text box.
- 6 Select the way in which the data and descriptors are to be unloaded by clicking on the **Unload option** radio button, the following options are available:
 - Data only - just the data is unloaded, no descriptor values are unloaded.

- Data and descriptors into a single file - both the data and the descriptor values used to build up the index are unloaded to a single file.
 - Data and descriptors into 2 separate files - the data and the descriptor values used to build up the index are unloaded to separate files.
- 7 Specify a name for the unload data file to be created in the **Unload data output file** text box; you cannot specify a file that already exists. By default, the unload file will be created in the directory of the selected database. Click on the **Browse...** button to select a different directory and/or drive.
 - 8 If you have selected to unload the data and the descriptors into 2 separate files, specify a name for the unload descriptor file to be created in the **Unload descriptor file** text box; you cannot specify a file that already exists. By default, the unload file will be created in the directory of the selected database. Click on the **Browse...** button to select a different directory and/or drive.
 - 9 Click on the arrow on the left of **Additional Parameters** if you want to specify a search buffer and a value buffer. The search buffer is used to restrict the unloaded records to those which meet the selection criterion provided. The value buffer is used to supply the values which correspond to the selection criterion.
 - 10 Click on the **Execute Unload** button to unload the selected file.

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

Load

The Load function adds records to a file in a database. The output from a previous run of the Unload function is used as input.

➤ To load data into a file in a database

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen, then click on the link **Load** in the navigation area. The Load dialog is displayed in the data area.

Load

Load Option: Single input file Separate input files

Input data file:

Input descriptor file:

Load into Database file:

Number of records to skip from input data file:

Max number of records to add from input data file:

Size of workpool: MB

▶ Additional Parameters

- 3 Select whether you are using a single input file (containing both data and descriptors) or separate input files (one for the data and one for the descriptor values) by clicking on the corresponding **Load Option** radio button.
- 4 If you are loading data from a single file, enter the name (including full path name) of the file to be used as input for the load function in the **Input data file** text box, or click on the **Browse...** button to select an input file from the database's default directory or from another directory/drive.
- 5 If you are loading data from 2 separate files, enter the names (including full path names) of the files to be used as input for the load function in the **Input data file** and the **Input descriptor file** text boxes, or click on the corresponding **Browse...** button to select an input file from the database's default directory or from another directory/drive.
- 6 Enter the number of the file into which the data is to be loaded in the **Load into Database file** text box, or click on the **Select...** button to open the Select database file dialog in a pop-up window; select the file into which the data is to be loaded by clicking on it, then click on the **OK** button to return to the main Load dialog.
- 7 If you only want to load some of the data records from the input file(s), enter the number of records to be skipped before loading begins in the **Number of records to skip in input data file** text box. You can also limit the maximum number of records to be loaded; enter the value in the **Max number of records to add from input data file** text box.
- 8 Enter the size (in MB) of the work pool to be used for the sort during loading in the **Size of workpool** text box.
- 9 Clicking on the arrow on the left of **Additional Parameters** provides you with further options to specify the behaviour of the load function if it encounters a descriptor which is in the input file, but which has been removed from the database, or whether to continue loading if duplicate unique descriptors are encountered.
- 10 Click on the **Execute Load** button to load the data into the selected file.

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

Expert Utility Call

The Expert Utility Call can be used to generate a utility call in which you are able to specify any or all of the parameters, values and options that are available for that utility. This gives you complete control over how the utility is executed.



Caution: The Expert Utility Call assumes detailed working knowledge of the Adabas utilities; it should only be used by experienced DBAs.



Note: The Expert Utility Call does not check to ensure that syntax and keywords are correct before the utility is called.

The Expert Utility Call is available for the following utilities:

- ADABCK
- ADACMP
- ADADBM
- ADADCU
- ADAFDU
- ADAFIN
- ADAMUP
- ADAOPR
- ADAORD
- ADAREP
- ADAULD

➤ To make an Expert Utility Call

- 1 Select the database that you want to use by clicking on its Database ID or Database Name in the list of databases.
- 2 Click on the link **Utilities** above the database overview screen, then click on the link **Expert Utility Call** in the navigation area. The Expert Utility dialog is displayed in the data area.



Note: The Expert Utility Call dialog includes a link to the documentation for the utility that is selected from the Utility Name list box. The documentation is displayed in a separate tab.

Expert Utility

Utility Name

ADABCK - Backup and restore database or files [Help for ADABCK](#)

Parameter(s)

Parameter

+ Add Parameter

Environment Variable(s)

Name	Value
BCK001	C:\ProgramData\Software AG\Adabas\db100\BCK001 Browse...

+ Add Environment Variable

Execute Utility Create Script

- Select the utility that you want to execute from the **Utility name** list box.
If the utility that you select uses environment variables, their names are automatically entered in the **Environment Variables** table.
- Enter the first parameter (together with appropriate values) and options that you want to use for the call in the first Parameters text box. Click on the **Add Parameter** button to add subsequent parameters.
- If the utility uses environment variables, enter the name of the file to be used (together with the full path) in the **Value** column of the **Environment Variables** table; click on the **Browse...** button to show the files available in various directories and/or drives.
- Once you have entered all the parameters and assigned values for the environment variables, click on the button **Execute Utility** to start the job.

Or:

Click on the **Create Script** button to create a script file that can be executed at a later time. By default, the script file is called *script.bat* and will be created in the directory of the selected database. If you want to use a different name, enter the new name (together with the full path) in the **Create Script** pop-up window, and click on the **Browse...** button to select a different directory and/or drive. If a file with the same name already exists, check the **Replace existing file** checkbox to replace the old file with the new file.

5 Entire Net-Work Administration

- Accessing Entire Net-Work 68
- Managing Net-Work 69
- Managing ADI (Directory Server) 81

This chapter describes how to use Adabas Manager to perform the system administration tasks necessary for Entire Net-Work operations.



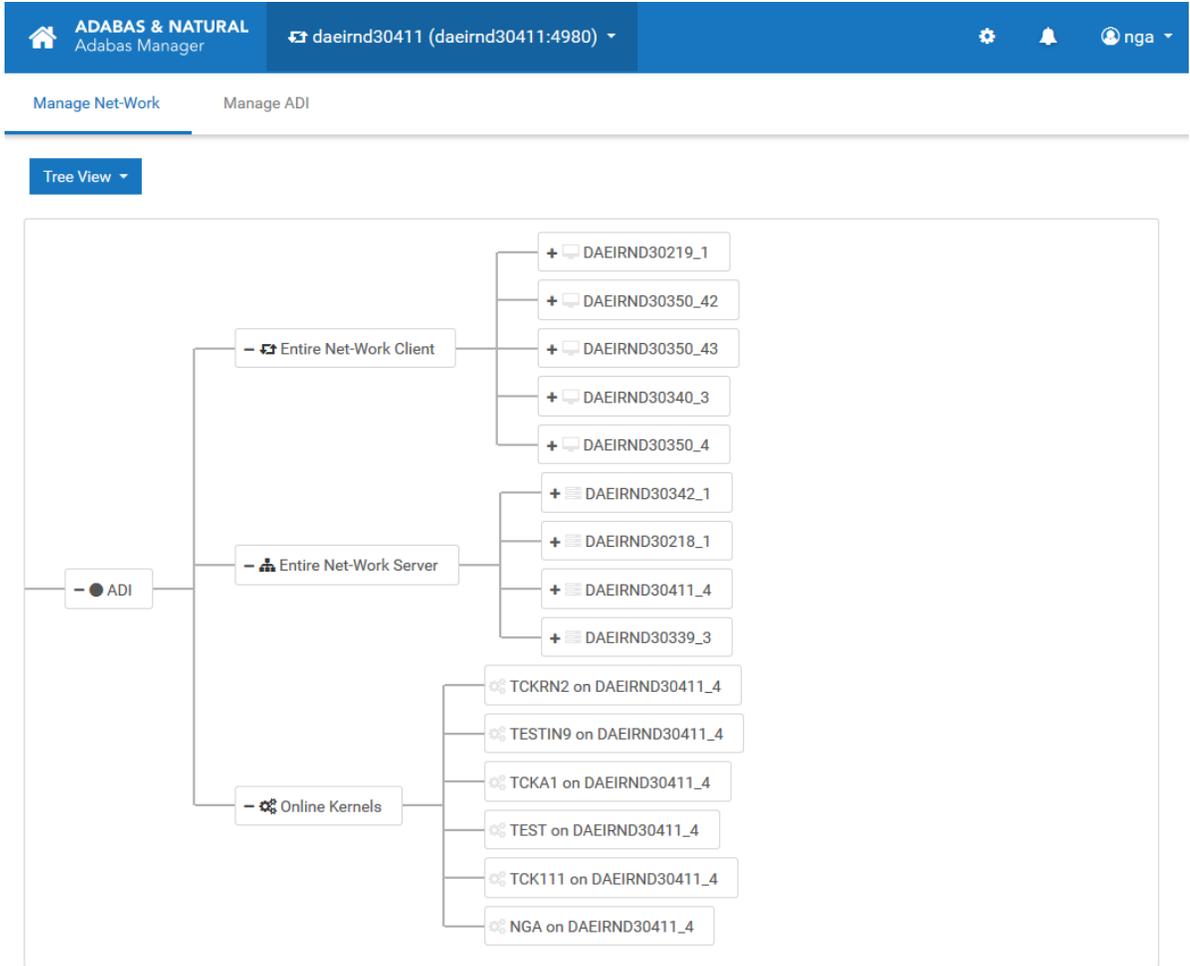
Note: This chapter assumes that you are familiar with the features, functions and parameters of Entire-Network and Adabas Directory Server. Please refer to the most-recent versions of the following documentation for detailed information: *Entire Net-Work Client Installation and Administration*, *Entire Net-Work Server Installation and Administration*, *Entire Net-Work Administration*, *Adabas Directory Server Administration*.

Accessing Entire Net-Work

➤ To access Entire Net-Work

- Click on the icon **Administer Entire Net-Work** on the Adabas Manager home page.

The Entire Net-Work start screen is displayed.



Managing Net-Work

This section describes how to manage Entire Net-Work using Adabas Manager.

The following icons are used on the Manage Net-Work page:

Icon	Meaning/Element
	Client
	Client configuration
	Server
	Kernel

The status of each element is indicated by one of the following colours:

Colour	Status
Green	On/active
Red	Off/inactive
Yellow	Error
White	Pending

➤ **To display the Manage Net-Work main page**

- Click on the link **Manage Net-Work** in the header of the Entire Net-Work start screen.

The Manage Net-Work screen is displayed.

- [Entire Net-Work Client](#)
- [Entire Net-Work Server](#)
- [Online Kernels](#)

Entire Net-Work Client

Selecting and expanding **Entire Net-Work Client** in the navigation area shows the client servers that are attached to it, and displays a list of the client servers in the display area, together with the following information: status, client name, version, TCPIP protocol and status description. Selecting an individual client server in the navigation area displays information about it in the display area, where you can also display/modify the client configuration, parameters, trace options, and the log file.

➤ **To display the list of client servers**

- Click on **Entire Net-Work Client** in the navigation area.

The list of client servers is displayed in the display area.

- [Client Servers](#)

- Client Configuration

Client Servers

This section describes how to display, modify and save client server information for the following:

- Client configuration
- Parameters
- Trace option
- Log file

➤ To display/modify the client server configuration

- 1 Click on **Entire Net-Work Client** and then on the client server that you want to use in the navigation area.

The client configuration is displayed in the display area.

- 2 If you want to delete a client configuration, click on the waste bin icon  next to its name.

The pop-up **Delete Client Configuration** dialog box is displayed.

Click on the button **Delete** to delete the client configuration.

- 3 If you want to add a new client configuration, click on the button **Add Client Configuration** in the display area.

The **Add Client Configuration** dialog box is displayed.

Enter the client configuration name in the **Configuration Name** text box, and enter the path of the configuration in the **Configuration File Path** text box.

Click on the button **Add** to add the client configuration.

- 4 Click on the link **Parameters** in the display area to display the parameter settings for the client server.

The parameters settings for the client server are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current parameter settings.

Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists.

Select the check box **Update all Client Configurations** if the changes are to be applied to all current client configurations.

Click on the button **Save** to save the new parameter settings.

- 5 Click on the link **Trace Option** in the display area to display the trace options for the client server.

The trace options for the client server are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current trace options.



Note: Software AG recommends that you perform this function only on the advice of your Software AG support representative.

Modify the trace level parameters as requested by your Software AG support representative.

Click on the button **Save** to save the new trace option settings.

- 6 Click on the link **Log File** in the display area to display the contents of the console log file for the client server.

The contents of the console log file for the client server are displayed in the display area.

Click on the button **New Log** if you want to close the current log file and start a new one.

The pop-up **Start New Log File** dialog box is displayed.

Click on the button **Start New Log** to start a new log file.

Client Configuration

This section describes how to display, modify and save client information for the following:

- Access
- Parameters
- Trace option

➤ To display/modify the client configuration

- 1 Click on **Entire Net-Work Client**, then on the client server, and then on the client that you want to use in the navigation area.

The client configuration is displayed in the display area.

- 2 If you want to add a new client access configuration, click on the button **Add Client Access** in the display area.

The **Add Client Configuration Access** dialog box is displayed.

Define the new client access by entering values in the text boxes or selecting them from the drop-down lists.

Click on the button **Add** to add the new client access configuration.

- 3 If you want to edit a client configuration, click on the edit icon  next to its name.

Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists.

Click on the button **Save** to save the modified client access configuration settings.

- 4 If you want to delete a client access configuration, click on the waste bin icon  next to its name.

The pop-up **Delete Client Configuration Access** dialog box is displayed.

Click on the button **Delete** to delete the client access configuration.

- 5 Click on the link **Parameters** in the display area to display the parameter settings for the client.

The parameters settings for the client are displayed in the display area; the parameters are grouped according to their function (client configuration parameters, directory server parameters, ADASAF parameters, and LNK user exit parameters).

Click on the edit icon  in the header above a group display if you want to modify any of the current parameter settings of that group.

Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists.

Click on the save icon  in the header above a group display to save the new parameter settings.

- 6 Click on the link **Trace Option** in the display area to display the trace options for the client.

The trace options for the client are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current trace options.



Note: Software AG recommends that you perform this function only on the advice of your Software AG support representative.

Modify the trace level parameters as requested by your Software AG support representative.

Click on the button **Save** to save the new trace option settings.

Entire Net-Work Server

Selecting and expanding **Entire Net-Work Server** in the navigation area shows the servers that are attached to it, and displays a list of the servers in the display area, together with the following information: status, server name, version, TCPIP protocol and status description. Selecting an individual server in the navigation area displays information about it in the display area, where you can also display/modify the kernel list, parameters, trace options, and the log file.

› To display the list of servers

- Click on **Entire Net-Work Server** in the navigation area.

The list of servers is displayed in the display area.

- Servers
- Kernels

Servers

This section describes how to display, modify and save server information for the following:

- Kernels
- Parameters
- Trace option
- Log file

› To display/modify the server configuration

- 1 Click on **Entire Net-Work Server** and then on the server that you want to use in the navigation area.

The server configuration/kernel list is displayed in the display area.

- 2 Click on the button **Add Kernel** in the display area if you want to add a new kernel to the server. The pop-up **Add kernel** dialog box is displayed. Define the new kernel by entering values in the text boxes or selecting them from the drop-down lists. Click on the button **Add** to add the new kernel.

- 3 If you want to stop a running kernel, click on the stop icon  in the column **Start/Stop** next to its name.

The pop-up **Stop Net-Work kernel** dialog box is displayed.

Click on the button **Stop** to stop the kernel.

- 4 If you want to start a Net-Work kernel that is offline, click on the start icon  in the column **Start/Stop** next to its name

The pop-up **Start Net-Work kernel** dialog box is displayed.

Click on the button **Start** to start the kernel.

- 5 If you want to delete a kernel from the server configuration, click on the waste bin icon  next to its name.

The pop-up **Delete Net-Work kernel** dialog box is displayed.

Click on the button **Delete** to delete the kernel from the server configuration.



Note: You can only delete kernels that are offline.

- 6 Click on the link **Parameters** in the display area to display the parameter settings for the server.

The parameters settings for the server are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current parameter settings.

Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists.

Select the check box **Update all kernels** if the changes are to be applied to all kernels.

Click on the button **Save** to save the new parameter settings.

- 7 Click on the link **Trace Option** in the display area to display the trace options for the server.

The trace options for the server are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current trace options.



Note: Software AG recommends that you perform this function only on the advice of your Software AG support representative.

Modify the trace level parameters as requested by your Software AG support representative.

Click on the button **Save** to save the new trace option settings.

- 8 Click on the link **Log File** in the display area to display the contents of the console log file for the server.

The contents of the console log file for the server are displayed in the display area.

Click on the button **New Log** if you want to close the current log file and start a new one.

The pop-up **Start New Log File** dialog box is displayed.

Click on the button **Start New Log** to start a new log file.

Kernels

This section describes how to display, modify and save kernel information for the following:

- Kernel access
- Parameters
- Statistics
- Databases
- Connections
- Clients
- Access status
- Trace option
- Log file

➤ To display/modify kernel configurations

- 1 Click on **Entire Net-Work Server**, then on the server, and then on the kernel that you want to use in the navigation area. Alternatively, you can click on the kernel in the display area.

The kernel access configuration (server access, client access, and configuration) is displayed in the display area.

- 2 Click on the edit icon  in the column **Action** if you want to modify any of the current access settings of the server. The pop-up **Edit Server Access** dialog box is displayed. Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the save icon  to save the new access settings.

If you want to delete a server access configuration, click on the waste bin icon  next to its name. The pop-up **Delete Server Access** dialog box is displayed. Click on the button **Delete** to delete the server access.

- 3 Click on the edit icon  in the column **Action** if you want to modify any of the current access settings of the client. The pop-up **Edit Client Access** dialog box is displayed. Make the changes

that you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the save icon  to save the new access settings.

If you want to delete a client access configuration, click on the waste bin icon  next to its name. The pop-up **Delete Client Access** dialog box is displayed. Click on the button **Delete** to delete the client access.

- 4 Click on the edit icon  in the column **Action** if you want to modify any of the current access settings of a connection. The pop-up **Edit Connection Access** dialog box is displayed. Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the save icon  to save the new access settings.

If you want to delete a connection access configuration, click on the waste bin icon  next to its name. The pop-up **Delete Connection Access** dialog box is displayed. Click on the button **Delete** to delete the connection.

- 5 Click on the link **Parameters** in the display area to display the parameter settings for the kernel.

The parameters settings for the server are displayed in the display area.

Click on the edit icon  in the header above a group display if you want to modify any of the current parameter settings of that group.



Note: You can only edit parameter settings for kernels that are offline.

Click on the edit icon  next to the name of the parameter that you want to modify.

Make the change that you want by entering a new value in the text box or selecting it from the drop-down list.

Click on the button **Save** to save the new parameter settings.

- 6 Click on the link **Statistics** in the display area to display the statistics for the kernel session.



Note: You can only display statistics for kernels that are online.

Select the check box **Set detailed statistics** if you want to collect and save more detailed statistics for the kernel. The pop-up **Change Kernel Stats Level Online** dialog box is displayed. Click on the button **Enable** to kernel detailed statistics.

- 7 Click on the link **Databases** in the display area to display information about the databases attached to the kernel.



Note: You can only display database information for kernels that are online.

- 8 Click on the link **Connections** in the display area to display information about the outgoing and incoming connections of the kernel.

Click on the button **Add** in the display area if you want to add a new connection to the kernel. The pop-up **Add Connection Online** dialog box is displayed. Define the new connection by entering values in the text boxes or selecting them from the drop-down lists. Click on the button **Add** to add the new connection.

- 9 Click on the link **Clients** in the display area to display information about the clients associated with the kernel.

- 10 Click on the link **Access Statistics** in the display area to display information about the kernel's access statistics.

- 11 Click on the link **Trace Option** in the display area to display the trace options for the kernel.

The trace options for the kernel are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current trace options.



Note: Software AG recommends that you perform this function only on the advice of your Software AG support representative.

Modify the trace level parameters as requested by your Software AG support representative.

Click on the button **Save** to save the new trace option settings.

- 12 Click on the link **Log File** in the display area to display the contents of the console log file for the kernel.

The contents of the console log file for the kernel are displayed in the display area.

Click on the button **New Log** if you want to close the current log file and start a new one.

The pop-up **Start New Log File** dialog box is displayed.

Click on the button **Start New Log** to start a new log file.

Click on the button **Dump** if you want to dump the kernel configuration to the log file. The pop-up **Dump Configuration of Kernel** dialog box is displayed. Click on the button **Dump Configuration** to dump the kernel configuration to the log file.

Online Kernels

This section describes how to display, modify and save online kernel information for the following:

- Kernel access
- Parameters
- Statistics
- Databases
- Connections
- Clients
- Access status
- Trace option
- Log file

» To display/modify kernel configurations

- 1 Click on the online kernel that you want to use in the navigation area.

The kernel access configuration (server access, client access, and configuration) is displayed in the display area.

- 2 Click on the edit icon  in the column **Action** if you want to modify any of the current access settings of the server. The pop-up **Edit Server Access** dialog box is displayed. Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the save icon  to save the new access settings.

If you want to delete a server access configuration, click on the waste bin icon  next to its name. The pop-up **Delete Server Access** dialog box is displayed. Click on the button **Delete** to delete the server access.

- 3 Click on the edit icon  in the column **Action** if you want to modify any of the current access settings of the client. The pop-up **Edit Client Access** dialog box is displayed. Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the save icon  to save the new access settings.

If you want to delete a client access configuration, click on the waste bin icon  next to its name. The pop-up **Delete Client Access** dialog box is displayed. Click on the button **Delete** to delete the client access.

- 4 Click on the edit icon  in the column **Action** if you want to modify any of the current access settings of a connection. The pop-up **Edit Connection Access** dialog box is displayed. Make the changes that you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the save icon  to save the new access settings.

If you want to delete a connection access configuration, click on the waste bin icon  next to its name. The pop-up **Delete Connection Access** dialog box is displayed. Click on the button **Delete** to delete the connection.

- 5 Click on the link **Parameters** in the display area to display the parameter settings for the kernel.

The parameters settings for the server are displayed in the display area.

Click on the edit icon  in the header above a group display if you want to modify any of the current parameter settings of that group.

 **Note:** You can only edit parameter settings for kernels that are offline.

Click on the edit icon  next to the name of the parameter that you want to modify.

Make the change that you want by entering a new value in the text box or selecting it from the drop-down list.

Click on the button **Save** to save the new parameter settings.

- 6 Click on the link **Statistics** in the display area to display the statistics for the kernel session.

 **Note:** You can only display statistics for kernels that are online.

Select the check box **Set detailed statistics** if you want to collect and save more detailed statistics for the kernel. The pop-up **Change Kernel Stats Level Online** dialog box is displayed. Click on the button **Enable** to kernel detailed statistics.

- 7 Click on the link **Databases** in the display area to display information about the databases attached to the kernel.

 **Note:** You can only display database information for kernels that are online.

- 8 Click on the link **Connections** in the display area to display information about the outgoing and incoming connections of the kernel.

Click on the button **Add** in the display area if you want to add a new connection to the kernel. The pop-up **Add Connection Online** dialog box is displayed. Define the new connection by

entering values in the text boxes or selecting them from the drop-down lists. Click on the button **Add** to add the new connection.

- 9 Click on the link **Clients** in the display area to display information about the clients associated with the kernel.
- 10 Click on the link **Access Statistics** in the display area to display information about the kernel's access statistics.
- 11 Click on the link **Trace Option** in the display area to display the trace options for the kernel.

The trace options for the kernel are displayed in the display area.

Click on the button **Edit** if you want to modify any of the current trace options.



Note: Software AG recommends that you perform this function only on the advice of your Software AG support representative.

Modify the trace level parameters as requested by your Software AG support representative.

Click on the button **Save** to save the new trace option settings.

- 12 Click on the link **Log File** in the display area to display the contents of the console log file for the kernel.

The contents of the console log file for the kernel are displayed in the display area.

Click on the button **New Log** if you want to close the current log file and start a new one.

The pop-up **Start New Log File** dialog box is displayed.

Click on the button **Start New Log** to start a new log file.

Click on the button **Dump** if you want to dump the kernel configuration to the log file. The pop-up **Dump Configuration of Kernel** dialog box is displayed. Click on the button **Dump Configuration** to dump the kernel configuration to the log file.

Managing ADI (Directory Server)

This section describes how to manage ADI (Adabas Directory Server) using Adabas Manager.

The following icons are used on the Manage ADI page:

Icon	Meaning/Element
	Partition
	Target

➤ **To display the ADI main page**

- Click on the link **Manage ADI** in the header of the Entire Net-Work main page.

The ADI screen is displayed. From this screen you can display and modify information about partitions and targets.

- [Managing Partitions](#)
- [Managing Targets](#)

Managing Partitions

➤ **To display/modify partition configurations**

- 1 Click on the partition that you want to use in the navigation area.

The targets for that partition are displayed in the display area.

- 2 Click on the button **Add Target** in the display area if you want to add a new target to the partition. The pop-up **Add Target** dialog box is displayed. Define the new target by entering values in the text boxes or selecting them from the drop-down lists. Click on the button **Add** to add the new target.

Managing Targets

➤ **To display/modify target configurations**

- 1 Click on the target that you want to use in the navigation area.

The target configuration is displayed in the display area.

- 2 Click on the button **Add Qualifier** in the display area if you want to add a new qualifier to the target. The pop-up **Add Qualifier** dialog box is displayed. Define the new qualifier by entering values in the text boxes or selecting them from the drop-down lists. Click on the button **Add** to add the newqualifier.
- 3 Click on the button **Delete Target** in the display area if you want to delete a target definition from the partition. The pop-up **Confirm Delete** dialog box is displayed. Click on the button **Delete** to delete the target definition.
- 4 Click on the edit icon  in the column **Action** if you want to modify any of the current settings of a target. The pop-up **Edit Qualifier** dialog box is displayed. Make the changes that

you want by entering new values in the text boxes or selecting them from the drop-down lists. Click on the Save button to save the new qualifier settings.

If you want to delete a qualifier from a target, click on the waste bin icon  next to its name. The pop-up **Confirm Delete** dialog box is displayed. Click on the button **Delete** to delete the qualifier.

6 Building an Adabas Manager Docker Image

- General Information 86
- Prerequisites 86
- Building and Running the Adabas Manager Docker Image 86

This document describes how to build an Adabas Manager Docker image, and how to run the Adabas Manager container using scripts that are provided with Adabas Manager.

General Information

The preparation of Adabas Manager in a docker container consists of two steps that are performed after the appropriate Adabas Manager components have been installed:

- Preparation of a *.tar* file which contains all required components;
- Building the docker image based on the *.tar* file.

Prerequisites

- Docker installation version 1.13.1 or compatible;
- Software AG Adabas Manager installation.

Building and Running the Adabas Manager Docker Image

The directory `<install_dir>/AdabasManager/docker/` contains the following three files:

- `CreateAdabasManager-tar.sh`
- `Dockerfile`
- `entrypoint.sh`

The scripts provided with Adabas Manager support the building of a Docker image and the running the Docker container.

➤ To build the Adabas Manager archive file (tar)

- Execute the script `CreateAdabasManager-tar.sh` at `<install_dir>/AdabasManager/docker/`.

➤ To build the Adabas Manager Docker image

- Execute the following command at `<install_dir>/AdabasManager/docker/` (note the period at the end of the command):

```
docker build -t adabasmanager:8.5.0 . ↵
```

➤ To run the Docker image

- Execute the following command:

```
docker run -d -p 1234:8083 -e ACCEPT_EULA=Y --name AdabasManager85 ↵
adabasmanager:8.5.0
```



Note: Port 1234 is a port on the host machine which is not used by another process. Port 8083 is the Adabas Manager port on the host machine. Port 8083 could be 9083, 10083 and so on if there are more than one parallel installations of Adabas Manager in the host machine. You can check this port number in the file *com.softwareag.catalina.connector.http.pid-{port-number}.properties* at *<Software AG installation folder> profiles/CTP/configuration/com.softwareag.platform.config.propsloader*.

The advantage of this method is that the complete configuration is in the image. For troubleshooting, Software AG support will require only the image and the command you entered. The disadvantage of this method is if the configuration changes, you will have to build a new image and rerun the container.

Using Adabas Manager

1. Launch Adabas Manager web application by entering the URL, for example *http://{host-of-docker-container}:8083/amn* in the browser.
2. Login to the Adabas Manager web application with the default user ID = admin and password = manage.

Managing additional tester IDs in the authentication text file

1. Go into the bash shell of the running container by entering the following command:

```
docker exec -it <container-id> bash
```

2. Issue the following command at the bash shell prompt to list internal users in the authentication text file:

```
sh /opt/softwareag/common/bin/internaluserrepo.sh -f
/opt/softwareag/AdabasManager/config/users.txt -lu
```

3. Issue the following command at the bash shell prompt to add internal users to the authentication text file:

```
sh /opt/softwareag/common/bin/internaluserrepo.sh -f  
/opt/softwareag/AdabasManager/config/users.txt user1
```

4. Issue the following command at the bash shell prompt to delete internal users from the authentication text file:

```
sh /opt/softwareag/common/bin/internaluserrepo.sh -f  
/opt/softwareag/AdabasManager/config/users.txt -d user1
```