software AG

Adabas Manager

Installing Adabas Manager

Version 7.6.3

June 2014

Adabas Manager

This document applies to Adabas Manager Version 7.6.3.

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

Table of Contents

Preface

This documentation explains how to install Adabas Manager version 7.6.3.

This document is organized as follows:

Platform Coverage and Prerequisites	describes the platforms supported for this version of Adabas Manager as well as the Software AG product requirements.
The Adabas Manager Environment	describes the environment required for working with Adabas Manager.
License Key	describes the Adabas Manager license key and how to use it.
Steps to Perform Before You Install	describes steps you must take prior to installing Adabas Manager.
Migration	provides information on the migration from previously installed versions of Adabas Manager.
Installing Adabas Manager on Windows	describes the installation steps for Adabas Manager in Windows environments and how to install the Predict Access Component.
Installing and Setting Up Software AG Products under UNIX	gives information about the installation package and the Software AG environment and describes the pre-installation steps which are common to all installations of Software AG products on a UNIX platform. It is relevant if you are installing a Software AG product for the first time.
Installing Adabas Manager on UNIX	describes the installation steps for Adabas Manager on UNIX platforms.

1 Platform Coverage and Prerequisites

Supported Platforms

This release of Adabas Manager supports the following platforms:

- Windows 2003 Standard Server
- Windows 2003 Enterprise Server
- Windows XP Professional
- Windows Vista
- SUSE Linux Enterprise Version 10 for S390x 64 Bit
- SUSE Linux Enterprise Version 10 for Intel 32 Bit
- SUSE Linux Enterprise Version 10 for Intel 64 Bit
- Red Hat Server Version 4 for S390x 64 Bit
- Red Hat Server Version 4 for Intel 32 Bit
- Red Hat Server Version 4 for Intel 64 Bit
- Red Hat Server Version 5 for S390x 64 Bit
- Red Hat Server Version 5 for Intel 32 Bit
- Red Hat Server Version 5 for Intel 64 Bit

Prerequisites

Adabas Manager 7.6.3 requires the following products and versions:

- Adabas versions 7.4.4 or 8.1.3, on z/OS, VSE, BS2000/OSD and VM, with all zaps applied from the ADAvrs.MVSZAPS data set and any subsequent ADAvrs.MVSZXnn data sets (if they have been provided). Review the $README members of these data sets for details on the zaps.

  For a list of mandatory zaps for Adabas Manager 7.6.3 see the *readme.txt* file on the installation medium. All zaps are available in SoftwareAG's ServLine24 for download.

  > **Note:** The following mandatory zaps are delivered with Adabas Manager:
  > - SVC (z/OS only) 8.1.3: AY813101
  > - SVC (z/OS only) 7.4.4: AY744129

- If you want to use Adabas Manager, you must have some Software AG middleware components installed. The recommended way to do this is to install Entire Net-Work Client 1.3.1 on the client side. Adabas Manager is shipped with Entire Net-Work Administration, which is a limited version of Entire Net-Work 5.9/6.1 for Mainframes (including the Simple Connection Line Driver from its Entire Net-Work TCP/IP Option).

2 The Adabas Manager Environment

Before you install Adabas Manager, be sure your system meets the requirements described in the previous section **Prerequisites**.

The System Management Hub (SMH) and the Software AG Directory Server are commonly installed with Software AG open system products. If they are already installed at your site, you should not need to install them again.

⚠️ **Important:** Adabas Manager 7.6.3 requires System Management Hub (SMH) version 4.1.1.314 or higher.
To improve System Management Hub performance, Software AG recommends to disable script scanning for the web browser session used for System Management Hub. For details on the risks and benefits of disabled script scanning, see the information in Software AG's ServLine24.

Entire Net-Work Client is provided to ensure that you can use the Simple Connection Line Driver, even if you do not have Entire Net-Work 7 (or higher) on open systems installed. It also provides you with access to the Software AG Directory Server and SMH required for Simple Connection Line Driver and Entire Net-Work e-business Clients.

If Entire Net-Work is not already running on your system, install Entire Net-Work Administration as described in the Entire Net-Work Administration documentation.

On the client side, install Entire Net-Work Client as described in Entire Net-Work Client Administration in the *Entire Net-Work Administration* documentation.

📄 **Note:** If you install Adabas Manager under UNIX, the system will check during the installation process if Entire Net-Work Client is available on your system and will install it if it is not found.

Once you have installed the Entire Net-Work Client components, you must manually set up Directory Server target entries in the System Management Hub to support the Simple Connection Line Driver. Specifically, one XTSaccess (access) target entry must be created in the Directory

Server for each open systems Adabas database you want to access using the Simple Connection Line Driver. For information on how to do this, see the section Required Post-Installation Updates for Simple Connection Line Driver Support in the *Entire Net-Work Client Administration* documentation.

> **Note:** We recommend that you use only one Directory Server for all Software AG products that require it.

3   Adabas Manager License Key

Only the Adabas Manager Enterprise Edition requires a license key file; the trial Standard Edition is free.

Whenever the Adabas Manager Enterprise Edition is started, the licence key file is read and its validity is checked.

The license key file is delivered as an XML document. The document can be viewed with a browsing tool or a text editor; it contains the licensing information and a digital signature. The license key file document displays the Software AG legal notices and copyright information etc. as well as the product license information. For detailed information see section *License Key File Location and Use*.

⚠ **Important:** Any modification of the license key file will invalidate the digital signature and the license key check will fail. If the check fails, you will not be able to run the product. In the event of a check failure, please contact your Software AG Support representative. If you uninstall Adabas Manager, the license file will be deleted. Management of the license file is your responsibility. Make sure that you have a copy of the file before uninstalling Adabas Manager.

License Key File Location and Use

The Adabas Manager license key file is generally distributed on diskette, although, in special cases, it can be shipped via e-mail. The file name is in the following format, where *vr* is the version and release number of the product: *AMAvr.xml*. Copy the file to a directory on your hard drive.

The license file is not required during installation procedure. You can enter the license key file for your Enterprise Edition during your first Adabas Manager session; the Standard Edition of Adabas Manager requires no license key file.

▶ **To enter your Adabas Manager license key file:**

1   Select **Software AG Adabas Manager -> Web Interface** from the programs in your Start Menu.

The logon screen for the System Management Hub (SMH) appears.

2   Logon to the System Management Adabas Manager Hub...

The System Management Hub main panel appears.

3   Select the name of the managed host on which Adabas Manager is installed.

4   Expand the tree-view frame for the managed host by clicking on the plus sign (+) to the left of its name.

5   Use the **Configuration** agent to enter your Adabas Manager license key:

Select **Adabas Manager 7.6.3** in tree-view and right-click on it.

6 Select **Configuration** in the menu.

The current license file name is displayed. If the license key field is empty, no license file is active and Adabas Manager is running in Standard Edition mode.

7 Click on the **Modify** button to browse to the new license file and to activate it.

8 After selecting the new license key file click **OK** to activate it or **Cancel** to return to the **Configuration** panel.

> **Note:** Click on the **Display** button in the **Configuration** panel to view the license file text.

4 Migration

Adabas Manager version 7.6.3 contains the complete functionality of Adabas Event Replicator Administration.

The configuration settings from Adabas Manager 7.6.2, 7.6.1, 7.5.1 and 7.4.1 and Event Replicator Administration2.5.2, 2.5.1, 2.4.1 and 2.3.1 are migrated to Adabas Manager 7.6.3 during the installation procedure (Windows only).

Existing versions of Adabas Manager 7.6, 7.5.1 and 7.4.1 as well as of Event Replicator Administration 2.5, 2.4.1 and 2.3.1 are uninstalled automatically during the installation of Adabas Manager 7.6.3 (windows only).

If the installation procedure discovers an existing Event Replicator Administration installation (2.5, 2.4.1 or 2.3.1), the new Event Replicator Administration version 2.6.1 is installed automatically (windows only).

If no existing Event Replicator Administration versions are found, the installation procedure of Adabas Manager 7.6.3 will provide you with the option to install Event Replicator Administration 2.6.1.

5   Steps to Perform Before You Install

Before you begin the installation procedures that follow, ensure that the following prerequisites have been met:

- Close all open applications.
- Disable any antivirus software.
- Ensure the target computer is connected to the network.
- Read the *readme.txt* file on the installation medium.

6 Installing Adabas Manager on Windows

This chapter describes how to install Adabas Manager on Windows systems. Prior to attempting the installation, verify that you have met all of the requirements described in *Platform Coverage and Prerequisites*.

Installing Adabas Manager

▶ **To install Adabas Manager in a Windows environment:**

1   Install Entire Net-Work Client if it has not already been installed at your site. For complete information on Entire Net-Work Client, including its installation and prerequisites, read *Entire Net-Work Client Administration*.

2   Insert the Adabas Manager installation CD into your CD-ROM drive. The CD should not be removed from the CD-ROM drive until the installation is completed.

    If the Windows Autorun mode is active (this is the default), the installation will start automatically. If it does not, locate and run the *setup.exe* file found in the root directory of the CD or in the *dir* subdirectory on the CD-ROM.

If the installation is successful, the **InstallShield Wizard Complete** panel appears.

If for any reason the installation is not successful, you will receive one of several possible error messages. Contact your local distributor for information about customer support services.

> **Note:** If the installation fails, it is likely that some parts of the product will have been installed. Therefore, before you attempt to install Adabas Manager again, run the installation program to remove it.

> ⚠ **Important:** If you have Event Replicator for Adabas installed and are using the *Predict Generate/Mapping Tool* for the Global Format Buffers, the Predict Access Component must be installed manually. For details see section *Installing Predict Access Component* and the *Event Replicator Administration* documentation.

Installing Predict Access Component

If you have Event Replicator for Adabas 2.6.1 installed and are using the *Predict Generate/Mapping Tool* for the Global Format Buffers, the Predict Access Component must be installed manually.

▶ **To install the Predict Access Component:**

1   **Install Natural Runtime**

    If Natural or Natural Runtime is not installed on your PC, you can install Natural Runtime from the delivery medium. For details on the installation and operation of Natural Runtime, please see section *Installing Natural or Natural Runtime* on a PC in the *Natural* documentation.

2   **Create new Natural System File (FNAT)**

    Copy an existing FNAT to a new location.

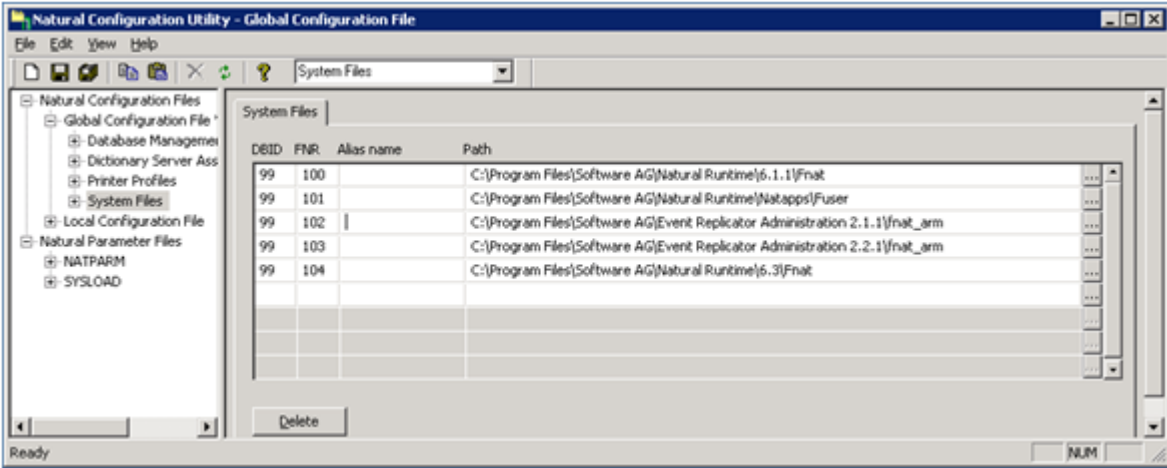   > **Note:** Although it is possible load the required Natural program in an existing Natural system file (FNAT), it is recommended to create a new FNAT to hold these programs.

3   **Assign a new Database/File number to the FNAT**

    Start the **Configuration Utility** and navigate to **Global Configuration File -> System Files**. Assign a new Database/File number to the FNAT:

Windows

UNIX

```
16/06/2008              NATURAL Parameter Setting        User: (Config)
11:54:21            V 6.1.1 Pl 26 PRELIM-DEV SAG 2008    File: NATPARM


 File             Edit            Configuration             Search

                                    Local Configuration File
                                    Global Configuration File

             Database Management System Assignments
             Dictionary Server Assignments
             HTTP Client Parameter Settings
             NATURAL version-independent Operating System Files
             System File Assignments
             Printer Profiles
             Ndv Environment Assignments

             Save to Global Configuration File



   Map DBID's to Systemfiles
                                                              24,040
```
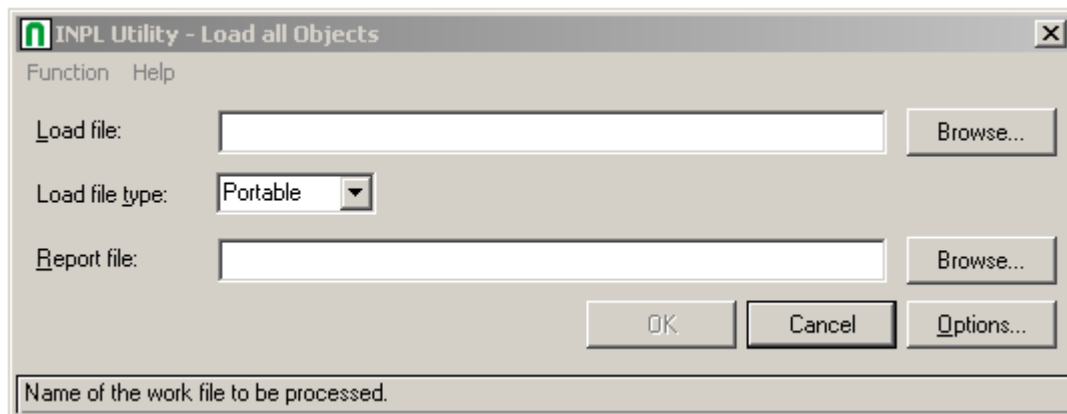
4   **Load Natural object with the INPL utility**

Start Natural with the new FNAT and use the INPL Utility to load the provided file (portable work file):

Windows

INPL Utility - Load all Objects

Function   Help

Load file: Browse...

Load file type: Portable

Report file: Browse...

                          OK   Cancel   Options...

Name of the work file to be processed.

UNIX

```
13:36:46                   ***** NATURAL INPL UTILITY *****              2008-06-16
User: GER                                                         Library: SYSTEM
                       Code    Function


                         L      Load Libraries Only
                         D      Load DDMs Only
                         E      Load Error Messages Only
                         B      Load All Objects
                         S      Scan INPL File
                         R      Natural Security Recover
                         ?      Help
                         .      Exit



         Code ........ B
         Replace ..... Y   (Y/N/O)       Load Except . N   (Y/N)
         DDM Name ....
         Library .....
         Object Name .                   Date ........           (YYYY-MM-DD)
         Check Date .. N   (Y/N)         Number ...... 0
         File Type ... P   (D/P)
         Load File ... _

                                                                      23,025
```

▶ **To update the registry:**

1   Use the Adabas Manager **Configuration** agent to:

  ▪ enter the ID of the database containing the Predict repository (DBID) and the file number of the FDIC file;

  ▪ enter the Natural Runtime parameters (DBID and file number of the FNAT containing the Predict Access Component);

  ▪ enter the Natural Bin Directory.

  Select **Adabas Manager 7.6.3** in tree-view and right-click on it.

2   Select **Configuration** in the menu.

  The Adabas Manager **Configuration** panel is displayed in detail-view:

3   Press the **Modify** buttons and enter the required values.

For details on special format buffer conversions with Event Replicator Administration, see the *Event Replicator Administration* documentation.

Uninstalling Adabas Manager on Windows

This section describes how to uninstall Adabas Manager in a Windows environment.

Notes:

1. Uninstalling will not remove any files that were not originally installed by the Adabas Manager installation tool. For example, files modified, expanded, moved, or introduced after installation must be removed manually.

2. Uninstalling will stop Adabas Manager.

▶ **To uninstall Adabas Manager on Windows:**

1 Go to Start/Settings/Control Panel.

2 Select **Add/Remove Programs**.

3 Select **Software AG Adabas Manager 7.6.3** and click on the **Change/Remove** button.

   The InstallShield Wizard is invoked.

4 Select **Remove** on the Welcome panel and click **Next**. Click **OK** for any verification messages.

   The **Setup Status** panel appears on which you can watch the progress of the uninstallation.

5 When the uninstallation has completed, the Finish panel appears. Click **Finish** to end the uninstallation.

Alternatively, when you try to install this version of the product, the InstallShield automatically detects whether another version is already installed and prompts you to remove it.

7 Installing and Setting Up Software AG Products under UNIX

This document contains general information which applies when installing and setting up any Software AG product on a UNIX platform.

General Information

Installation Package

The installation package containing Software AG products is provided on a CD-ROM conforming to the ISO 9660 standard.

The CD-ROM contains a complete directory structure which clearly specifies product and platform.

Software AG Environment

The following figure shows the general directory structure generated during installation and the environment variables which reference the specified directories:
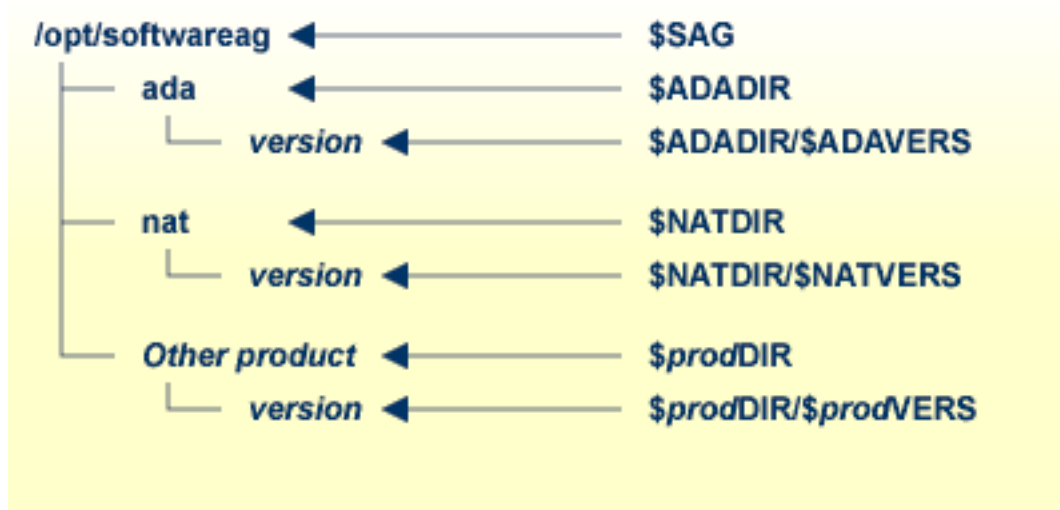
The environment variable `$SAG` defines the root directory for all Software AG products. It is recommended to define `SAG=/opt/softwareag`.

📄 **Note:** If you want to use applications with S-bit, which call Adabas, it is *required* to define `SAG=/opt/softwareag`.

For each product, the variable `$prodDIR` is set to the path of the main directory of the product specified, where *prod* is a three-letter product code in upper-case letters. For example, all files for Natural, whose product code is NAT, are contained in the directory *$NATDIR*.

However, there are exceptions to this convention. For example, the product code for Predict is "PRD" but the environment variables use the prefix "DIC" instead.

The name of the main directory is usually the same as the product code in lower-case letters. For example, the main directory for Natural is named *nat*.

Version-independent parts of the product, such as examples or data, are stored in a subdirectory of the product main directory.

Version-dependent components of the product are kept in the version directory $*prod*DIR/$*prod*VERS. For example, the current version of Natural is stored in the directory *$NATDIR/$NATVERS*.

The environment variables `prod`DIR and `prod`VERS for all products specified during installation are defined in the file *sagenv.new*. The same applies for any other environment variables needed for the various products.

Multiple $SAG Environments on the same Machine

If you want to install more than one *$SAG* environment in parallel on the same machine, you should consider the following points:

- In this case, no *$SAG* must be set to */opt/softwareag*.
- */opt/softwareag* must not be defined as a link to one of the *$SAG*.
- It is not possible to use applications with S-bit, which call Adabas.
- The *$SAG* environments are not completely independent, in particular, it is not possible to start Adabas databases with the same database ID from different *$SAG* environments in parallel.

Before Installing your Software AG Product

It is recommended that you use */opt/softwareag* as one common root directory for all of your Software AG products. For Linux systems, this location is the registered name with LANANA.

The default search path for dependent libraries of some Software AG products is */opt/softwareag*. They are loaded from this location or using the environment variable $LD_LIBRARY_PATH ($SHLIB_PATH on HP-UX systems). If you install the product to a different location (for example, */usr/SAG* instead of */opt/softwareag*), you may create a symbolic link to your *$SAG* directory to get a valid default search path:

```
su
cd /opt
ln -s $SAG softwareag
```

The following activities must be performed if you are installing a Software AG product for the first time, or if your environment is not yet set correctly due to any other causes.

This section covers the following topics:

- Creating the Administrator's Account and Group
- Backing Up Your Current Product Version
- Logging in as User "sag"

Creating the Administrator's Account and Group

You must create one administrator account and one group for all Software AG products when you install your first Software AG product.

1. Define an administrator account to which all of the Software AG products installed at your site belong. Since all environment definition files for the products are written in Bourne shell syntax, the Bourne (or Korn) shell is recommended as the login shell for the administrator account. This section assumes that the administrator account is called "sag".

2. Define a group to which the administrator belongs. This section assumes that this group is also called "sag".

3. Create a login directory for the user "sag".

4. Add the group "sag" in the system file */etc/group* and the user "sag" in the system file */etc/passwd*.

> **Note:** To perform these steps, use an appropriate system administration tool.

Backing Up Your Current Product Version

When upgrading a product, it is strongly recommended that you back up your current product version.

Logging in as User "sag"

This description assumes that the user "sag" is the administrator for Software AG products. Log in as the user "sag" (it is not recommended to log in as "root").

Installing the Contents of the CD-ROM to Disk

Before performing the following steps, make sure that the administrator user and group have been created and defined.

▶ **To install the contents of the CD-ROM to disk**

1   Load the CD-ROM in the CD-ROM drive and mount it if this is not done automatically.

Command	Description
`su - root`	To mount a CD-ROM you may need to be root.
`mkdir /mount-dir`	You may need to create a mount directory for the CD-ROM.
`mount platform-specific_mount_options device-name /mount-dir`	Execute the mount command (see the table below for operating system-specific mount commands).
`exit`	Return to "sag" user.

Platform-specific mount command and options to mount the CD-ROM as ISO9660 or High-Sierra file system:

| Platform	Mount Command
AIX	`/usr/sbin/mount -F cdfs -o cdcase device-name /mount-dir`
HP-UX	`/usr/sbin/mount -F cdfs -o cdcase device-name /mount-dir`
Solaris	`/usr/sbin/mount -F hsfs -o ro device-name /mount-dir`
Linux (IA-32)	`/bin/mount -t iso9660 -o ro device-name /mount-dir`

> **Note:** On Solaris, the volume management daemon *vold* might be active. This daemon mounts the CD-ROM automatically.

Example for Linux:

```
/bin/mount -t iso9660 -o ro /dev/cdrom/mnt
```

2 Check the directory structure of the UNIX part of the CD-ROM. When you run an `ls(1)` command on the CD-ROM, you will see a structure like the following:
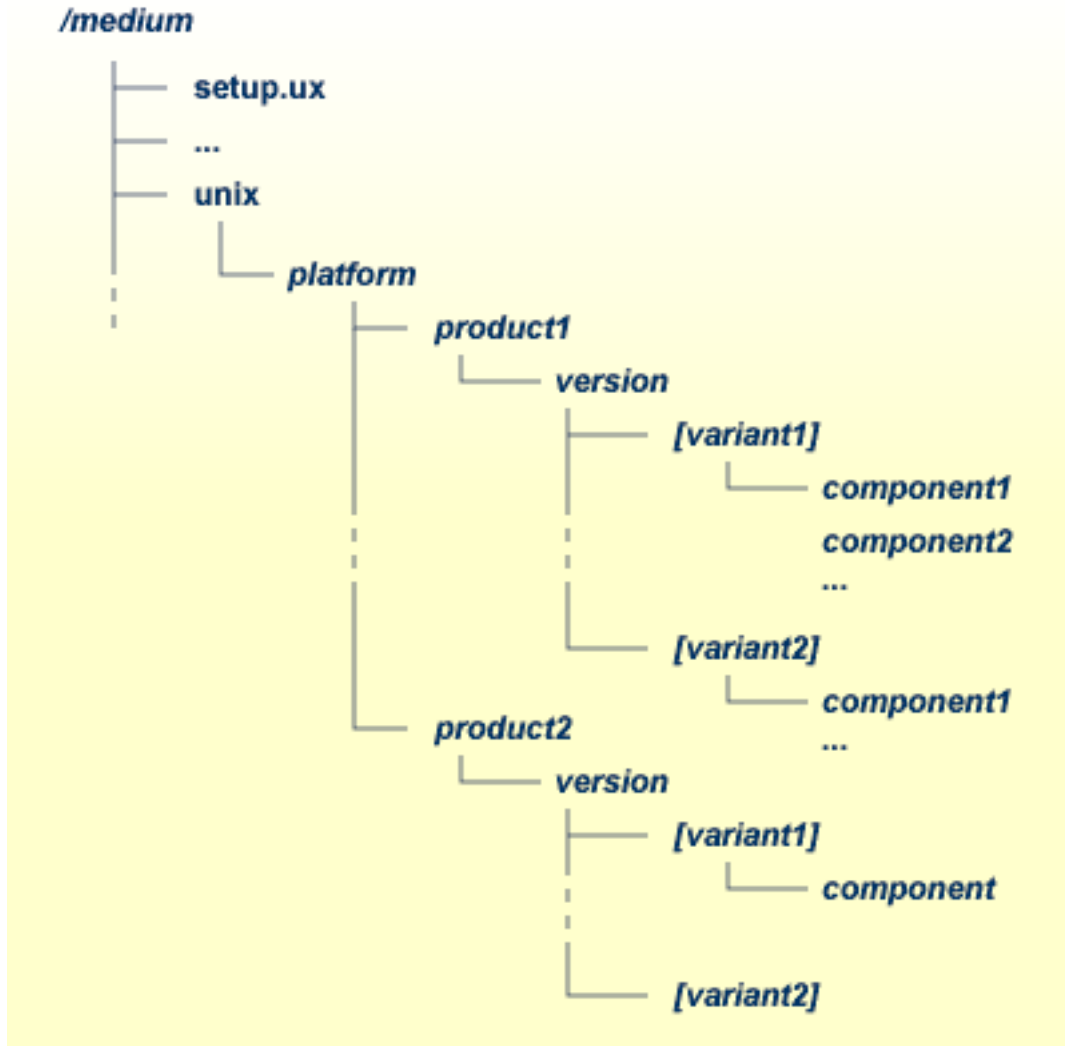
> **Note:** Depending on the mount options used, the files will be all upper case or all lower case. If you mount the CD-ROM as a pure ISO 9660 Interchange Level I CD, you will also see a version number ;1 appended to all files. Please note this for the following steps and use the correct name format.

3   For Linux zSeries the file *AMAv763n.tgz* is provided for your convenience. The following steps can be performed after you have loaded the CD-ROM on a Windows or UNIX machine that has a network connection to the zLinux system:

1. Copy the file *AMAv763n.tgz* that is located in the root directory of the CD-ROM to a temporary area such as */tmp/cdrom* in your zLinux environment, using for example ftp in binary mode.

2. Unpack the tgz file using the command `tar -xzvf AMAv763n.tgz`, where *n* is the number of the patch level.

3. Read the installation instructions for details on how to start the installation from this media in the file *setup.txt* in this directory. Instructions of how to proceed after installing the software will be displayed at the end of the installation and also copied onto your hard disk.

4   Please continue reading the step-by-step installation instructions for the Software AG product being installed.

8 Installing Adabas Manager on UNIX

This section provides you with the information necessary to install and to configure Adabas Manager on UNIX platforms.

Installing Adabas Manager

This section describes the prerequisites for installing Adabas Manager and how to perform the Adabas Manager installation on UNIX.

Before You Start the Installation

Before you start installing Adabas Manager make sure that you meet the prerequisites for your environment as described below.

Hardware and Software Prerequisites for Linux

For the installation of Adabas Manager, the following hardware requirements apply:

Hardware Prerequisites for Linux	
Processor:	x86, EM64T and AMD64 (at least Intel Pentium III 300 MHz)
RAM:	1GB
Disk space:	Installing Adabas Manager requires approximately 85MB.
CD-ROM drive:	A CD-ROM drive to install the software.

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

Software Prerequisites for Linux	
Operating System:	SUSE Linux Enterprise Server 10 (x86, EM64T, AMD64).

	Red Hat Enterprise Linux 4 and 5 AS (x86, EM64T, AMD64).
	
	1. Please ensure that your host name is correctly configured. Issue the following command
	
	`hostname`
	
	or
	
	`uname -u`
	
	If these commands return a fully-qualified domain name (FQDN), everything is OK. If, however, they return only the node name (other than localhost), you should look in the file */etc/hosts* and ensure that the node name is not an alias for localhost. You may have to reconfigure your network and set an FQDN as host name.

Remote Access:	Entire Net-Work Client 1.3 or above is required for remote access to mainframe machines.

> **Note:** It is recommended to use the file system ext3 on Linux.

Hardware and Software Prerequisites for IBM zLinux

For the installation of Adabas Manager, the following hardware requirements apply:

Hardware Prerequisites for IBM zLinux	
Architecture:	IBM zSeries (s390x)
RAM:	1GB
Disk space:	Installing Adabas Manager requires approximately 85MB.
CD-ROM drive:	A CD-ROM drive to install the software.

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

Software Prerequisites for IBM zLinux	
	SUSE Linux Enterprise Server 10

Operating System:	Red Hat Enterprise Linux 4 and 5 AS
	
	1. Please ensure that your host name is correctly configured. Issue the following command
	
	`hostname`
	
	or
	
	`uname -u`
	
	If these commands return a fully-qualified domain name (FQDN), everything is OK. If, however, they return only the node name (other than localhost), you should look in the file */etc/hosts* and ensure that the node name is not an alias for localhost. You may have to reconfigure your network and set an FQDN as host name.
	
	2. If you want to perform a graphical installation, you will need the following additional 31-bit packages (the version or release number may vary):
	
	■ xorg-xll-libs-6.8.1-23.EL.s390.rpm
	
	■ xorg-x11-Mesa-libGL-6.8.1-23.EL.s390.rpm
	
	■ zlib-1.2.1.2-1.s390.rpm
	
	■ expat-1.95.7-4.s390.rpm
	
	■ fontconfig-2.2.3-7.s390.rpm
	
	■ freetype-2.1.9-1.s390.rpm
	
	Otherwise start the installation as described below and add `-nw` as an option to `setup.ux`.

Remote Access:	Entire Net-Work Client 1.3 or above is required for remote access to mainframe machines.

Adding User Account for Administration of Software AG Products

In this section the following is assumed:

- The user account for the administrator of Software AG products is called "sag".

- The group to which the administrator and all users of Software AG products are assigned is called "sag".

- The home directory for the user "sag" is */opt/softwareag*.

- The root directory for Software AG products is */opt/softwareag*.

▶ **To perform these steps, use an appropriate system administration tool (e.g. smit).**

1   **Create the administrator's account and group**

   1. Create one administrator's account and one group for all Software AG products when you install your first Software AG product.

   2. Define an administrator account to which all of the Software AG products installed at your site belong. Since all environment definition files for the products are written for the Bourne shell, this shell is required as the login shell for the administrator account.

   3. Define a group to which the administrator and all users of Software AG products belong.

   4. Create a login directory for the user "sag".

   Example:

   It is assumed that user and group accounts are defined in the respective files in */etc*.

   The following is a possible entry in the system file */etc/group*:

   ```
   sag:*:21:sag
   ```

   The following is a possible entry in the system file */etc/passwd*:

   ```
   sag::100:21:SAG - Product Administrator:/opt/softwareag:/bin/sh
   ```

2   **Define the** SAG **environment variable**

   The environment variable "SAG" defines the default location under which the directory trees of installed Software AG products are located. In the Bourne shell you can define it like this:

```
SAG=/opt/softwareag ; export SAG
```

The Adabas Manager software will be installed in, and under the subdirectory *ama* of the location specified by $SAG.

Installing the Product

Once you have set up your installation environment as described above, you can proceed with the installation itself, which will only take a few minutes.

The Adabas Manager installation offers the possibility to install the product with or without Event Replicator Administration. If you choose not to install Event Replicator Administration during the installation procedure, you can add it at a later stage by re-running the Adabas Manager installation procedure.

The installation procedure examines the environment variable DISPLAY to determine whether to run in graphical or interactive text-oriented mode. If the environment variable DISPLAY points to an active X-Server, the graphical installation mode starts, otherwise the interactive text-oriented installation mode starts. There is also a batch mode available (see **Batch Installation** for further information).

> **Note:** If you run the installation procedure in character mode, at each command prompt, you must type in the exact wording (for example: accept for "accept", not just y or the ENTER key).

▶ **To set the** `DISPLAY` **environment variable**

■　Enter the following shell commands (this example is for Bourne shell):

```
DISPLAY="<machine_name>:0"
export DISPLAY
```

replace "*<machine_name>*"by the name of your terminal device.

Note that the graphical mode can only start if there is an X-Server currently active.

▶ **To install the Adabas Manager product**

■　To perform this step, you must be the user "sag" with "su" or "sudo" privileges.

You need to have superuser permissions for some parts of the installation procedure. You can choose between entering the password of the root user and entering your own password if the third party tool "sudo" is installed and configured.

Mount the installation CD (in the following it is assumed that the mountpoint is "/cdrom").

Start the installation procedure from a writable working directory.

Enter the command:

```
/bin/sh /cdrom/setup.ux
```

The setup program is started and guides you through the installation.

Since Linux S/390 systems usually do not have a CD-ROM drive, it is necessary to perform the following preparations prior to the actual installation:

▶ **To copy the CD-ROM contents to a zLinux system and prepare the installation**

1   Load the CD-ROM on a Windows or UNIX machine that has a network connection to the zLinux system.

2   Copy the file *AMA763n.tgz* that is located in the root directory of the CD-ROM to a temporary area such as */tmp/cdrom* in your zLinux environment, using for example *ftp* in the binary mode.

3   Unpack the *tgz* file using the command `tar -xzvf AMA763n.tgz`, where "n" is the number of the Adabas Manager patch level. Now follow the subsequent instructions for the main installation process.

▶ **To install the Adabas Manager product on a zLinux system**

■   To perform this step, you must be the user "sag". Do not perform this step as the user "root".

     Start the installation procedure from a writable working directory. We recommend *$SAG/INSTALL*.

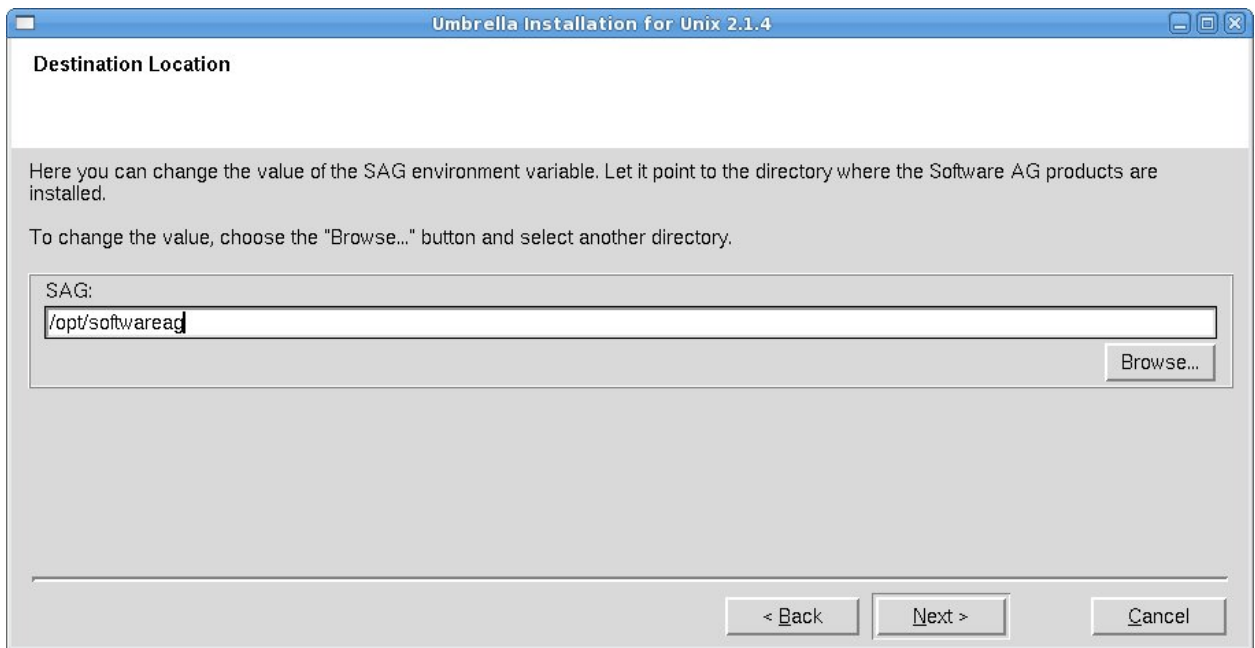   Enter the command:

```
sh <AdabasManagerRoot>/setup.ux
```

   The setup program is started and guides you through the installation.

The following screen shots show an installation made on a Linux machine - please note, that the exact number of the patch level may differ from the actual patch level that you are installing.
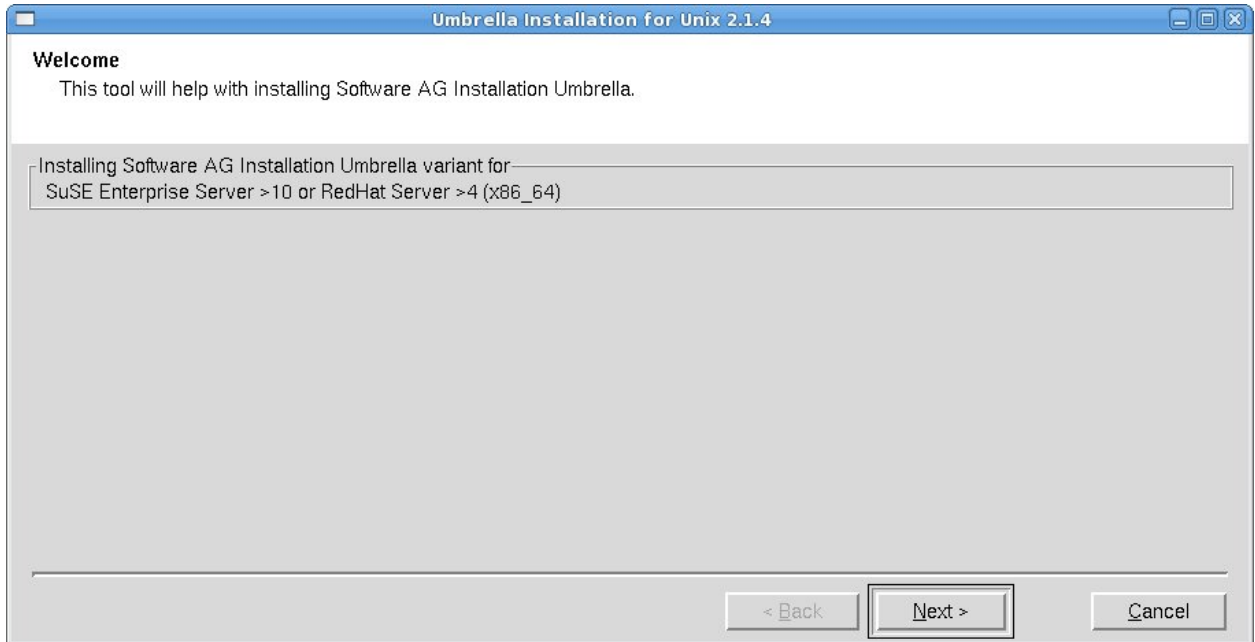
Choose **Next** to continue.

The **Destination Location** dialog box is displayed. Enter the value of the directory of the $SAG environment variable, or browse to a SAG directory if you already have one. If the destination you specify does not exist, you will be asked if you want to create it. Choose **Next** to continue.
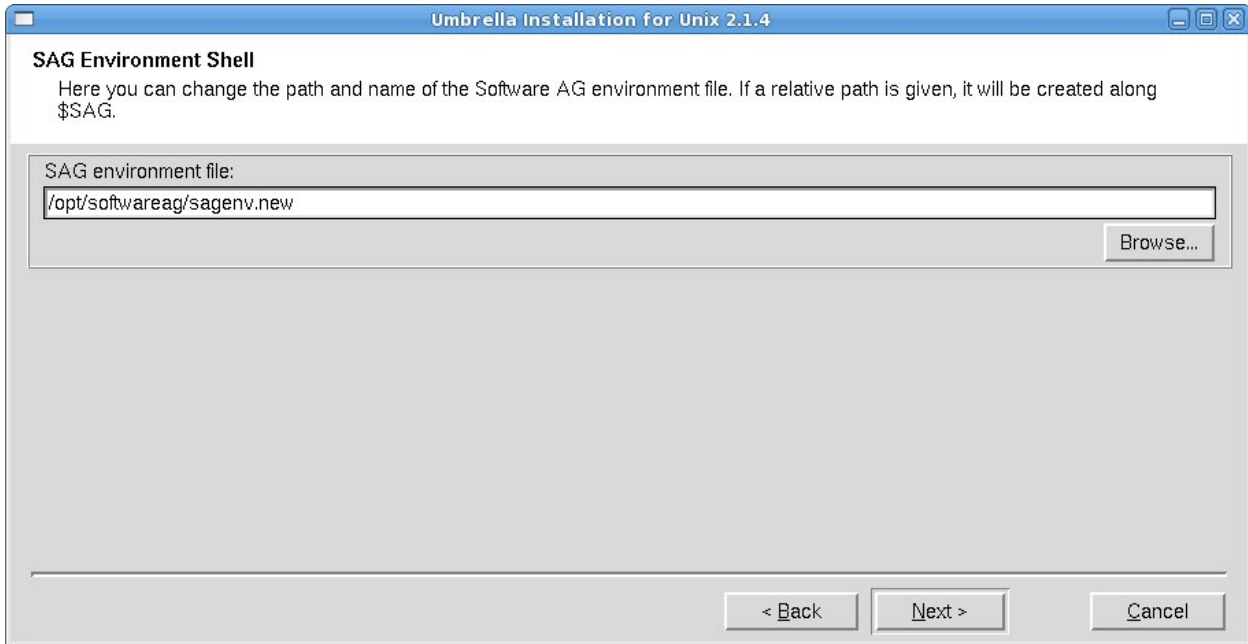
The name of the environment settings file generated by the installation in the SAG directory will be *sagenv.new*.
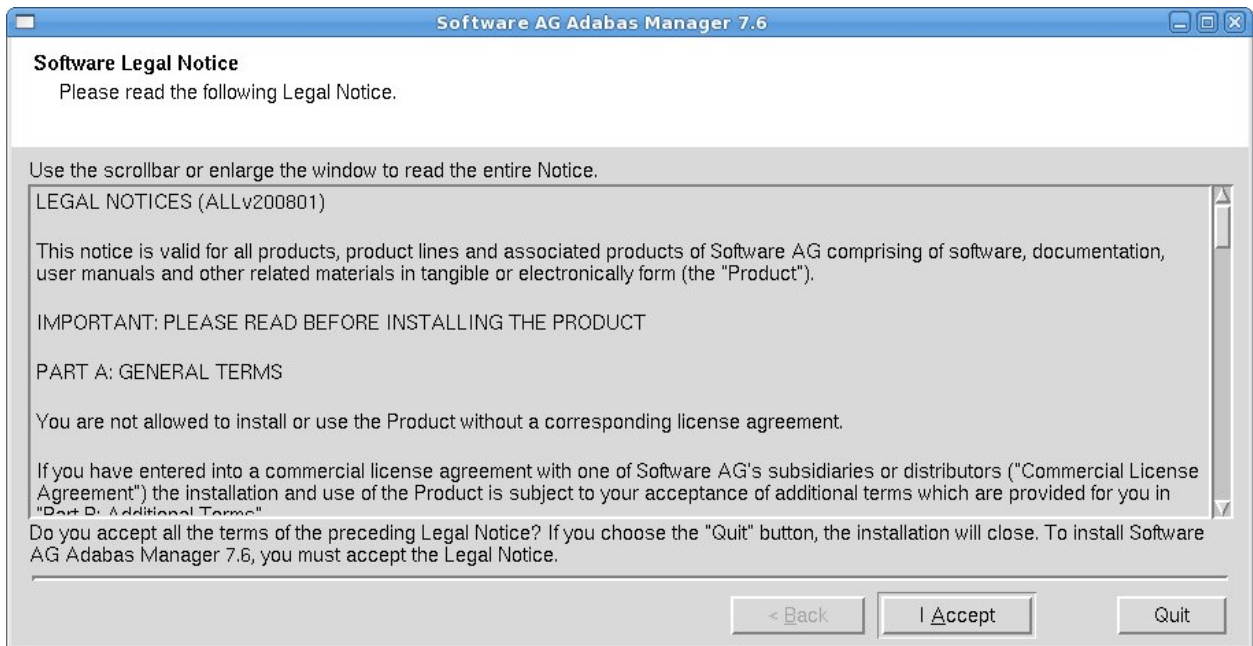
Choose **Next** to continue with the installation.
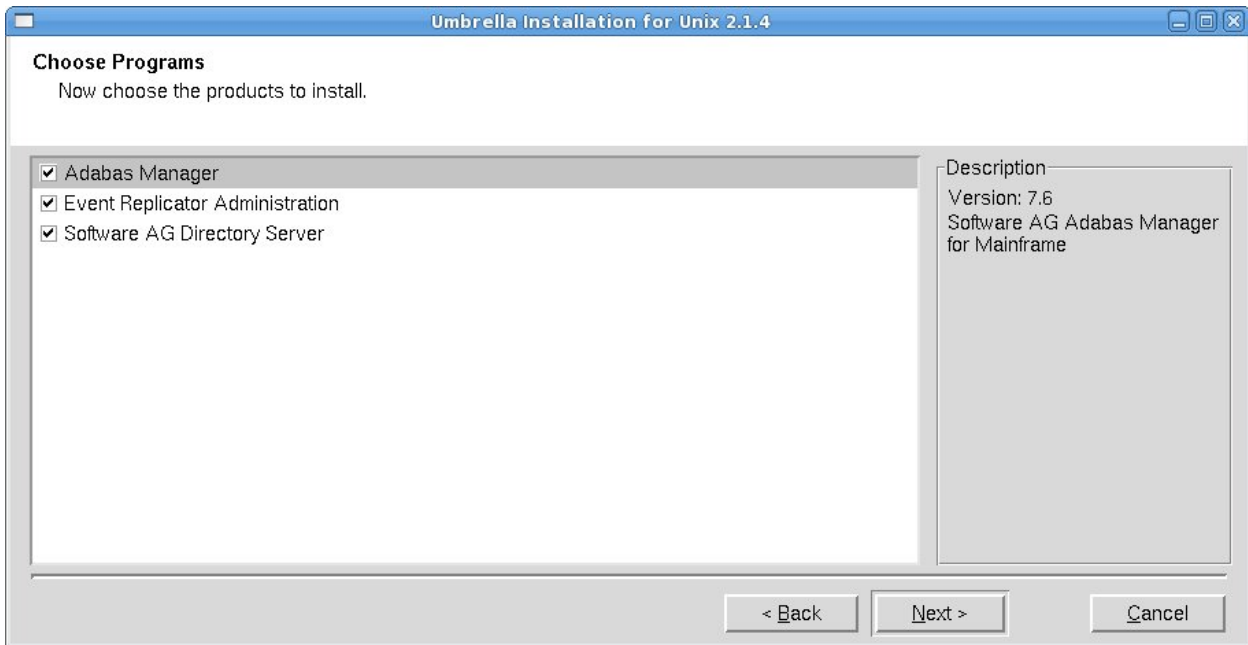
Select the products you want to install. You can install Adabas Manager with or without Event Replicator Administration. If you choose not to install Event Replicator Administration now, you can add it at a later stage by re-running the Adabas Manager installation procedure.

> **Note:** If Software AG Directory Server is not already installed on your system and you have selected it for installation, it will be installed at this point of the process before the Adabas Manager installation continues. Installation of the Directory Server also includes installation of System Management Hub (for more information see section *Installing Management Components* in the *Entire Net-Work Client Installation and Administration* documentation).
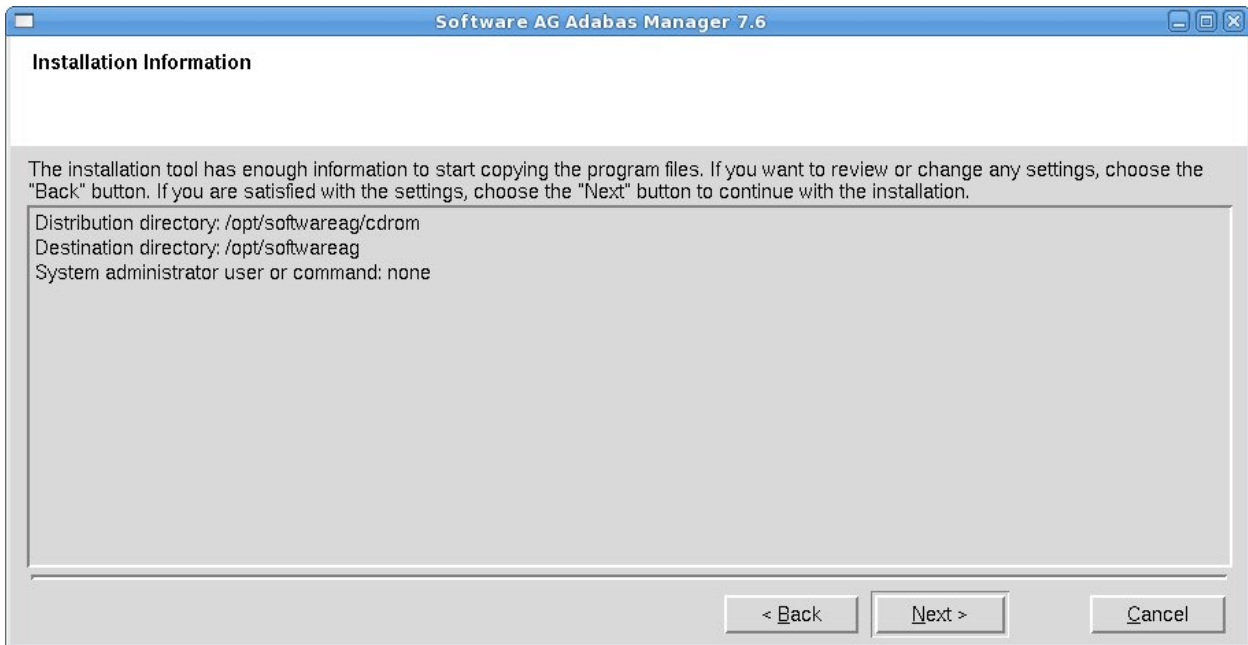
Choose **Next** to continue.

The Software AG Legal Notice is displayed. After reading the text, choose **I Accept** to continue with the installation.
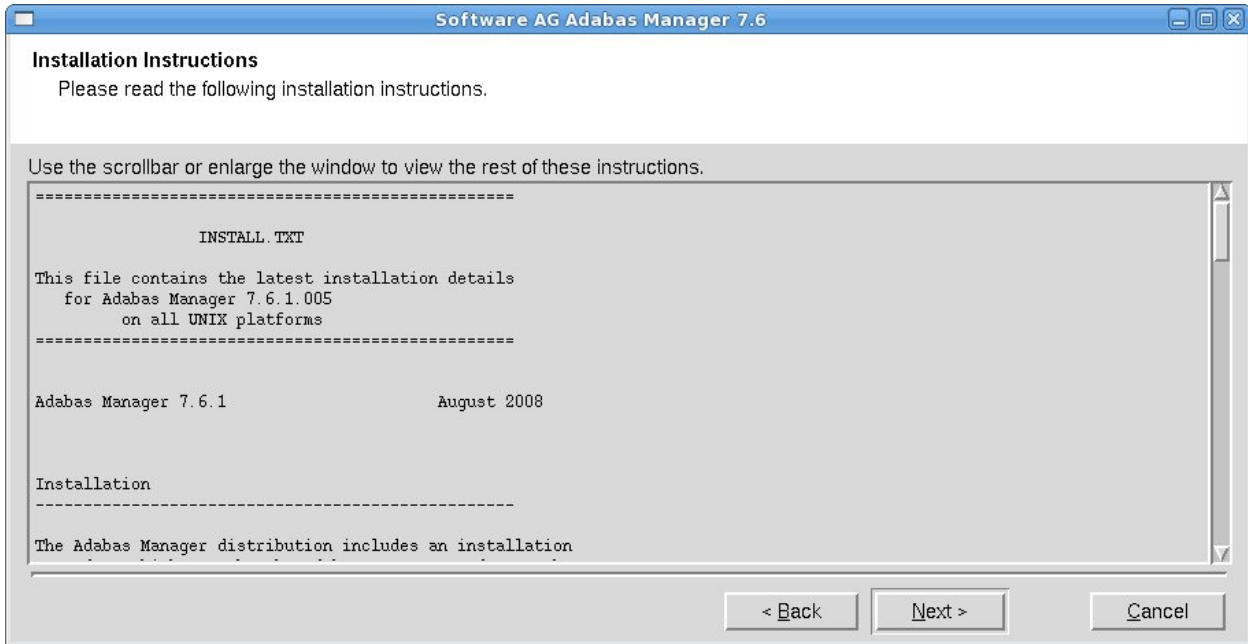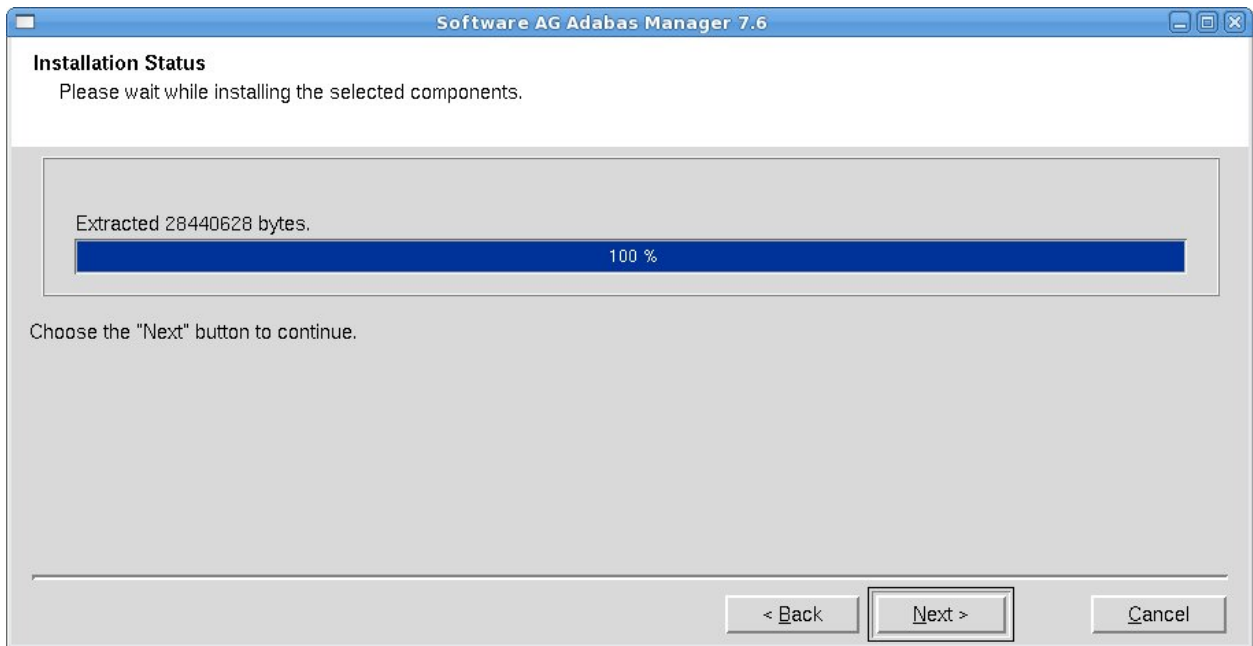
The Adabas Manager Installation Instructions are displayed. After reading the text, choose **Next** to continue with the installation.


The settings you have selected are now displayed. Choose **Back** to change the settings, or choose **Next** to start extracting the files.

> **Note:** If you did not install the Software AG Directory Server with System Management Hub during this installation, the system will check at this point if SMH is available and install it if this is not the case.
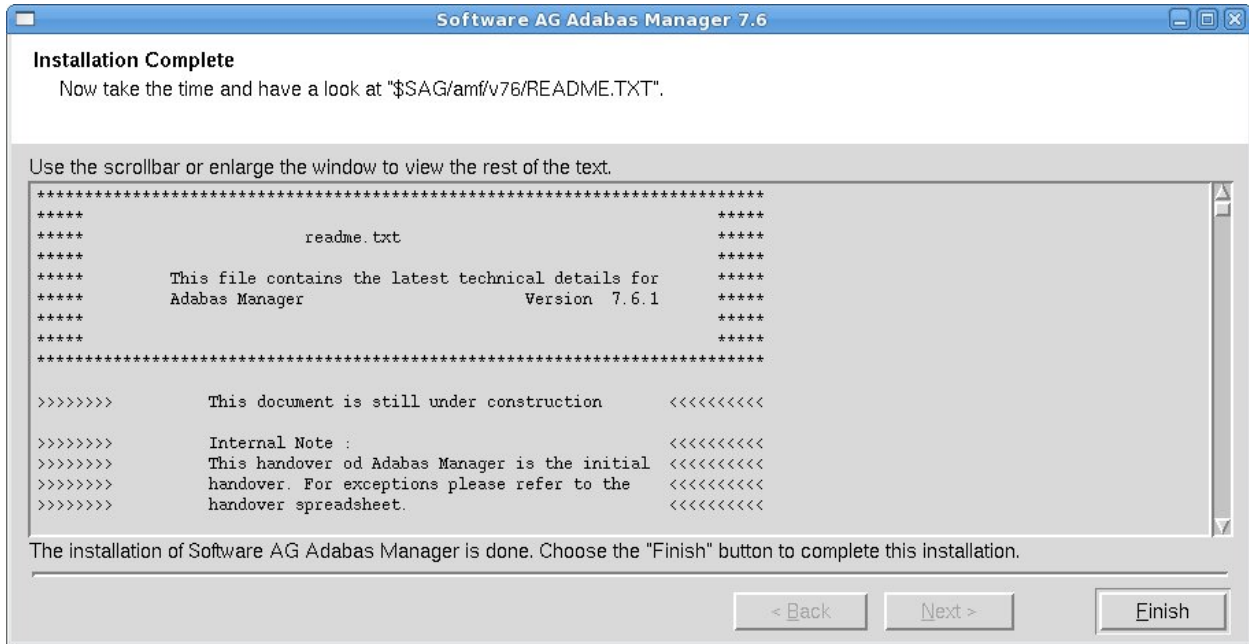
The system will also check if Entire Net-Work Client is available and install it at this point if this is not the case.
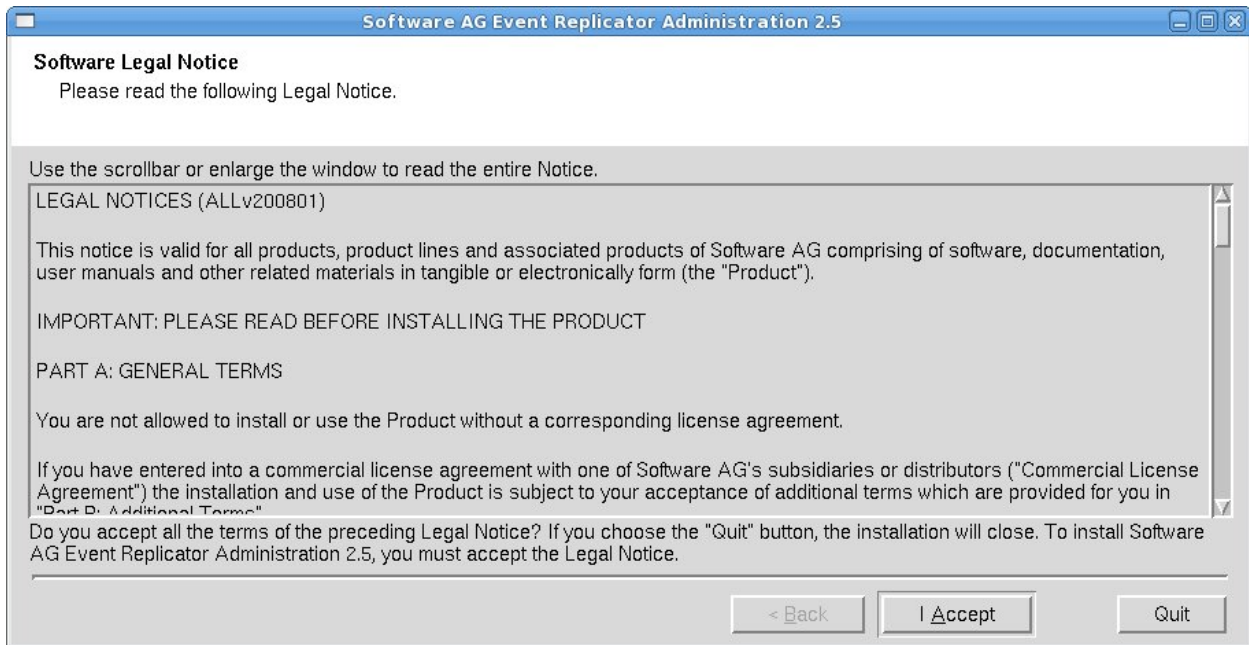

Choose **Next** to continue.
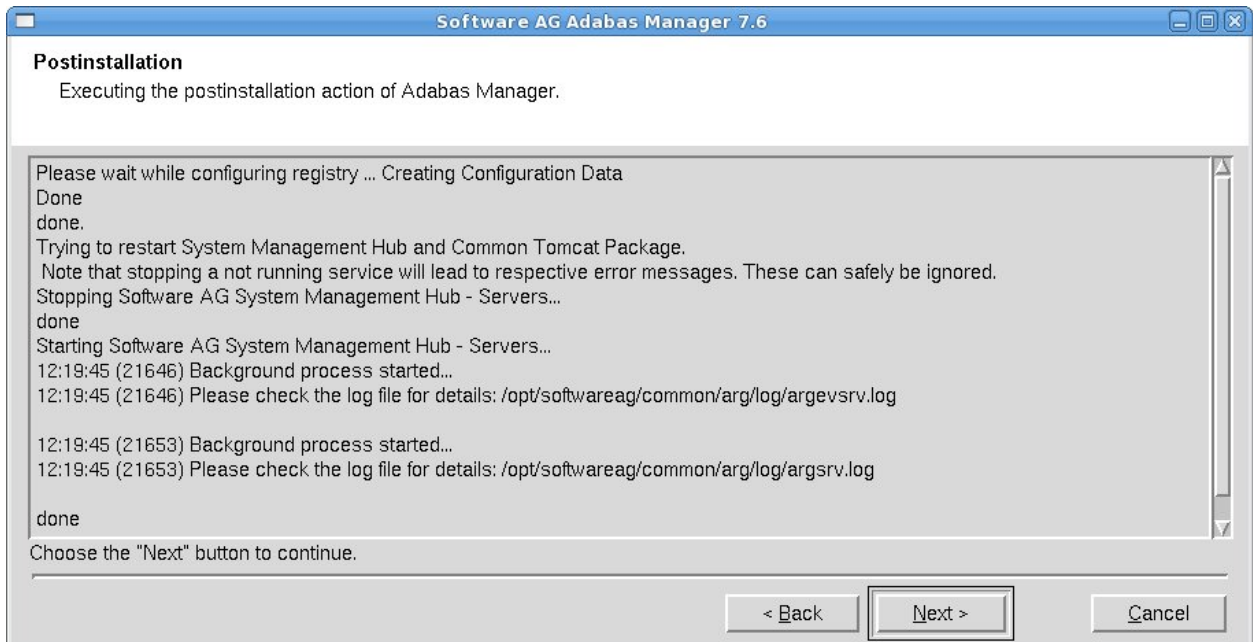
The postinstallation actions of Adabas Manager are displayed. Once they have finished, choose **Next** to continue.

Once the installation has completed, the readme file is displayed. Choose **Finish** to complete the installation.

If you have choosen not to install Event Replicator Administration, the **Activate Installed Products** screen is displayed. Otherwise, the Event Replicator Administration installation process will start directly after the Adabas Manager installation has been completed:

The Software AG Legal Notice is displayed. After reading the text, choose **I Accept** to continue with the installation.
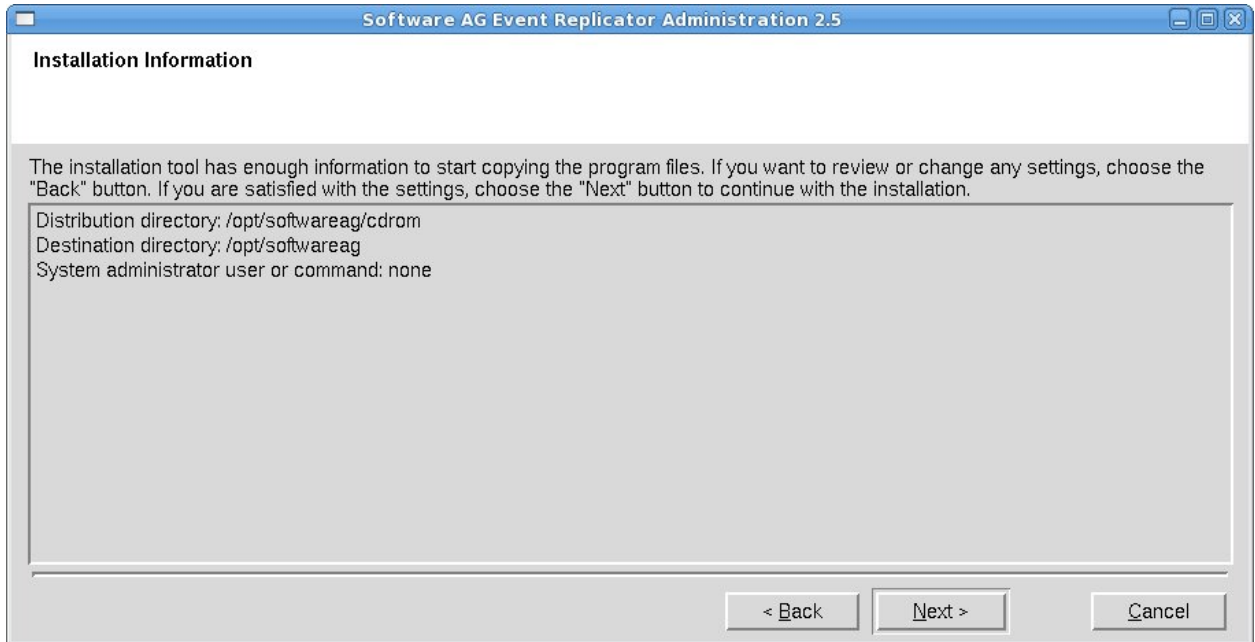
The settings you have selected are now displayed. Choose **Back** to change the settings, or choose **Next** to start extracting the files.
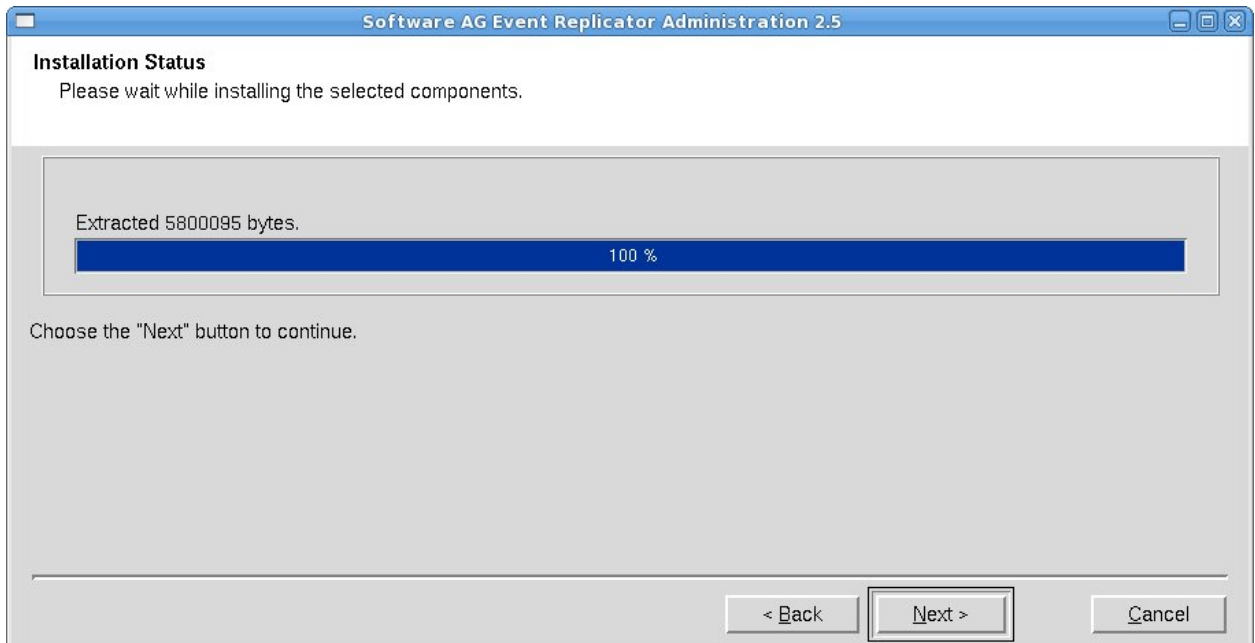
Choose **Next** to continue.
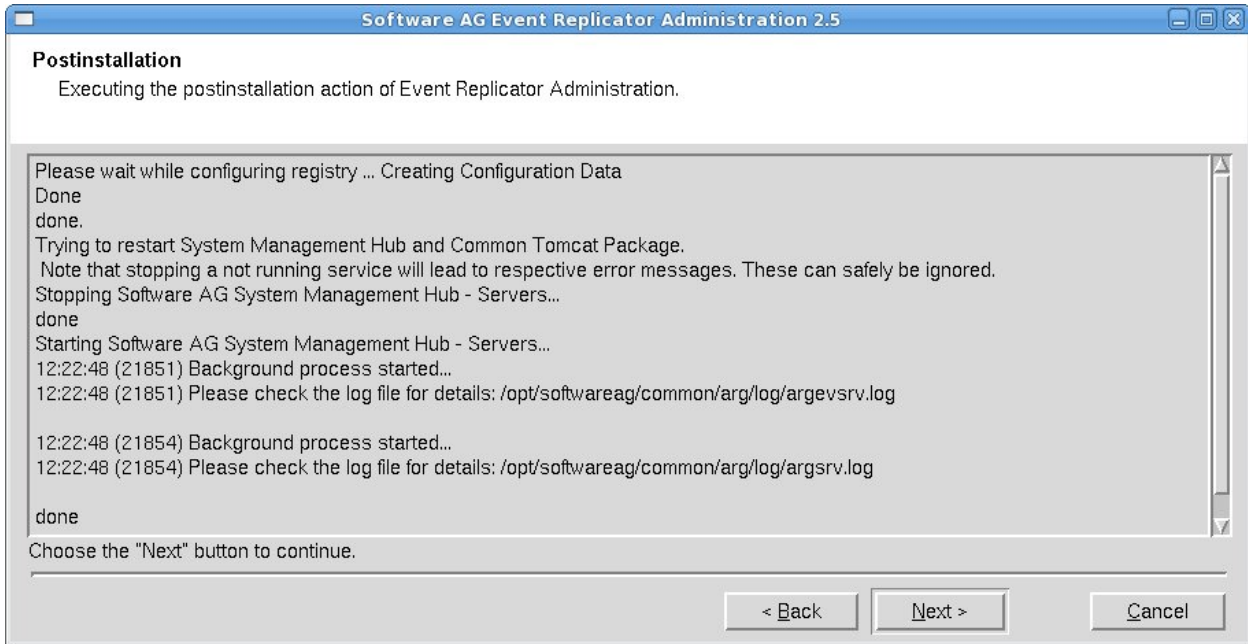
The postinstallation actions of Event Replicator Administration are displayed. Once they have finished, choose **Next** to continue.
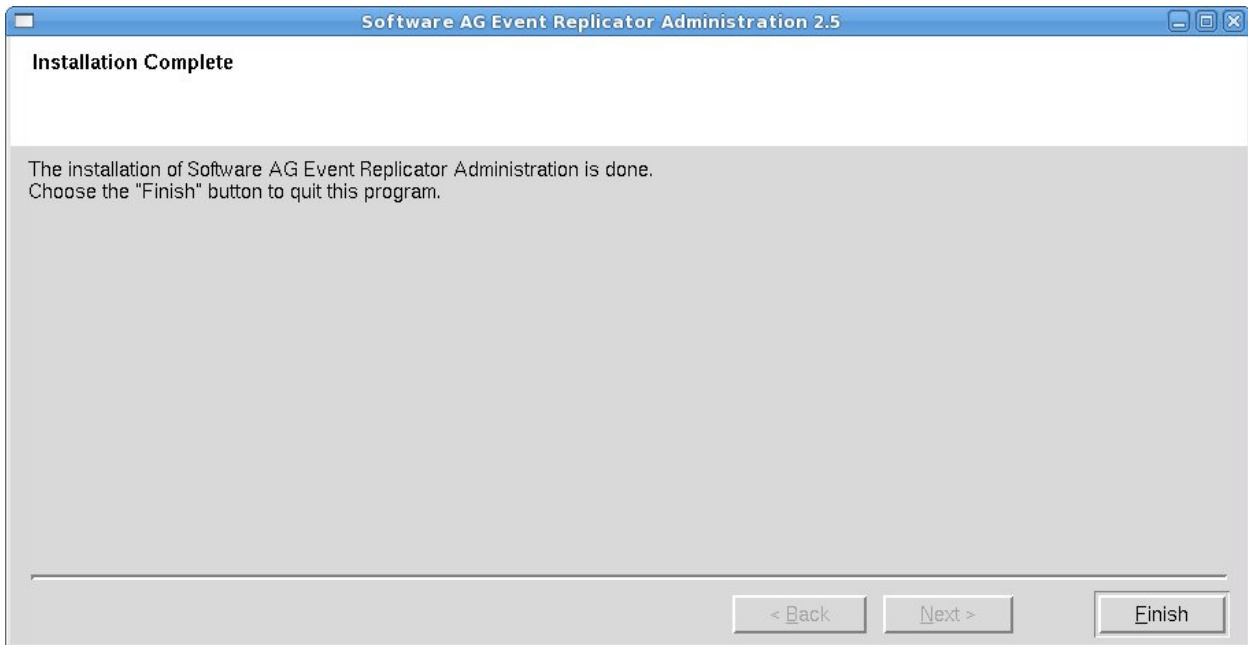
Choose **Finish** to complete the installation of Event Replicator Administration.
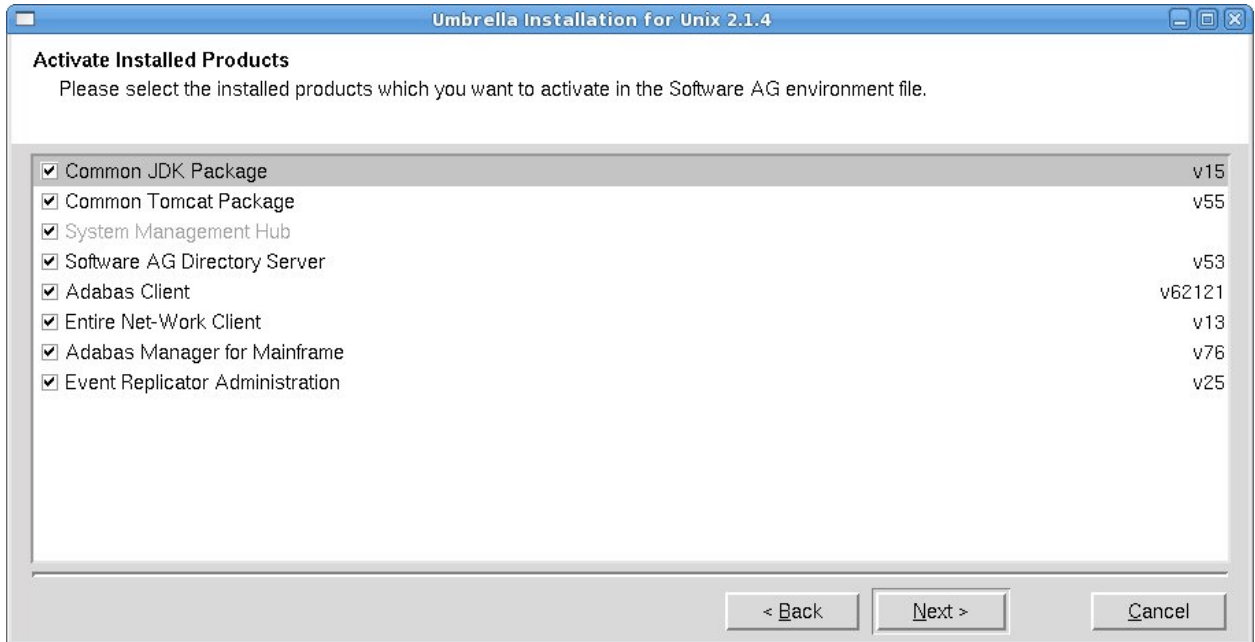
The Activate Installed Products screen is displayed. Select the products you want to activate in the Software AG environment file and choose **Next** to continue.
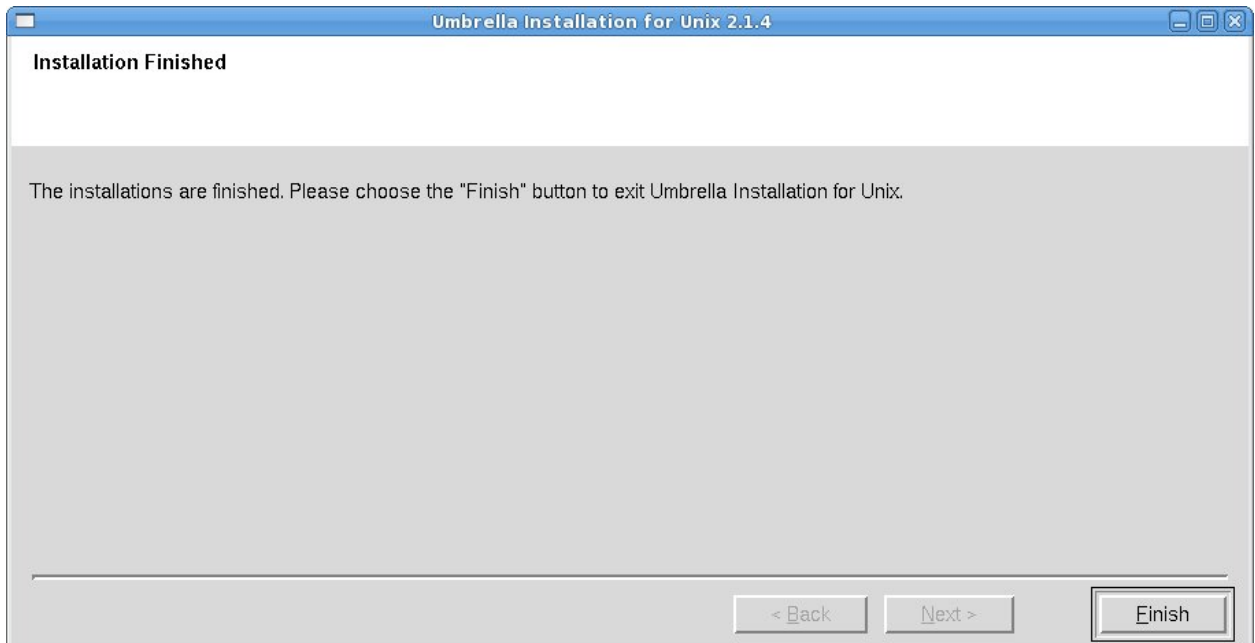
The installation process is completed. Choose **Finish** to leave the installation program.

Batch Installation

When Adabas Manager is installed, the log file *AMFv76Inst.log* is written, and another file, *AMFv76Inst.sh*, which contains the batch installation settings of this particular installation, is written to $SAG/amf/v76/INSTALL. This file can then subsequently be executed as a shell script. An example is shown below.

> **Note:** Corresponding files are written for Event Replicator Administration (ARMv26).

If you install the product in character mode, the option `-batch` can be used to execute the installation program without further user interaction. If user input is required, the default values are used; if these values are not appropriate, the correct values have to be set using the corresponding options in the command line. The available command line options can be displayed by calling the installation program with the `-help` option.

> **Caution:** Since the value of $SAG cannot be set using an option, it must already have the correct value in the calling shell.

All prerequisites and parameters are checked for correctness: missing or invalid values will cause the batch installation to terminate.

Root Authentication

Installation programs that require post-installation actions executed as a system administrator usually have the following three options:

Variable/Flag Name	Type	Value	Explanation
-user	string	( )	Software AG administrator
-password	string	( )	System administrator password (usage not recommended)
-authcmd	string	(none)	System administrator user or command

It is possible to specify a password for the system administrator (or the user's password in connection with -authcmd sudo) as value of the -password option; however, this should be avoided for security reasons. The password would appear as readable plain text on screen, or be stored in the calling shell script, or, in the worst case, be stored in the user's shell history file. It may also be looked up with ps -ef during the installation's runtime by every user on the system.

```
# Unsafe, because everyone can see the password:
sh /cdrom/setup.ux -batch -authcmd sudo -password secret
```

It is recommended to start the installation program using su or sudo, specifying the name of the administrator for the Software AG products as value of the -user option:

```
# Recommended way to start the installation with super user
# permissions:
su root -c "sh /cdrom/setup.ux -batch -user sag"
```

Example 1

This example shows the generated batch file *AMFv76Inst.sh* for Adabas Manager that was created during installation. The user is sag and does not have a root login on the machine (-authcmd none).

```
#!/bin/sh
# ----------- <Start of generated batch script> ----------
# -- <Adapt the following lines until end of generated> --
# ----------- < batch script to your needs > -----------
# Make sure that the following Internal Products are installed
# below the same $SAG, before the batch is actually started.
# - arg v411 "System Management Hub"
# You can install the following Software AG products separately
# below the same $SAG, after the batch is successfully finished.
# - wcl v13 "Entire Net-Work Client"
# You will find the batch scripts for the other installations
# in the respective INSTALL/ directories of the products.
#
# You should replace SECRET by the actual password
# or (even better) call this script with superuser privileges.
#
  SAG="/opt/softwareag"; export SAG
```

```
  /bin/sh /opt/softwareag/cdrom/setup.ux amf v76 -batch -directory ng64 \
        -user sag \
        -authcmd none \
        -password SECRET \
        -sagenv /opt/softwareag/sagenv.new \
        -packages "" \
        -products "
                cjp v15 : on
                ctp v55 : on
                acl v62121 : on
                wcl v13 : on
                amf v76 : on"
# ----------- <End of generated batch script> ----------
```

Example 2

This example shows the generated batch file *ARMv26Inst.sh* for Event Replicator Administration
that was created during installation of Event Replicator Administration. The user is sag and does
not have a root login on the machine (-authcmd none).

```
#!/bin/sh
# ----------- <Start of generated batch script> ----------
# -- <Adapt the following lines until end of generated> --
# ----------- < batch script to your needs > -----------
# You should replace SECRET by the actual password
# or (even better) call this script with superuser privileges.
#
  SAG="/opt/softwareag"; export SAG
  /bin/sh /opt/softwareag/cdrom/setup.ux arm v26 -batch -directory ng64 \
        -user sag \
        -authcmd none \
        -password SECRET \
        -sagenv /opt/softwareag/sagenv.new \
        -packages "" \
        -products "
                cjp v15 : on
                ctp v55 : on
                acl v62121 : on
                wcl v13 : on
                amf v76 : on
                arm v26 : on"
# ----------- <End of generated batch script> ----------
```

The batch scripts are stored in $SAG\amf\v76\INSTALL and $SAG\arm\v26\INSTALL, respect-
ively, and can be run with the following commands:

```
sh AMFv76Inst.sh
# or
sh ARMv26Inst.sh
```

However, the scripts must be adapted before they can be used. If a script is to be run with superuser privileges, the following lines must be removed from the script:

```
-authcmd su \ (or -authcmd sudo \)
-password SECRET \
```

If a script is to be run without superuser privileges, i.e., as user sag, the following lines must be removed from the script:

```
-user sag \
-authcmd none \
-password SECRET \
```

To run a full installation with batch scripts, the following steps must be executed:

```
sh CJPv15Inst.sh
su root -c "sh CTPv55Inst.sh"    (or sudo sh CTPv55Inst.sh)
su root -c "sh ARGv411Inst.sh"   (or sudo sh ARGv411Inst.sh)
sh ADIv53Inst.sh
sh WCLv13Inst.sh
sh AMFv76Inst.sh
sh ARMv26Inst.sh
```

Note that CTP and ARG must always be installed with root privileges. ADI and WCL must be installed with root privileges if they are installed as system services.

> **Note:** The SAG environment defined in *sagenv.new* must always be set before the execution of each script, i.e., the command `. sagenv.new` must be executed in a shell which is compatible to the Bourne Shell.

After the Installation

This section contains information about what to do after the actual Adabas Manager installation. For a summary of bug fixes, known problems and restrictions and last-minute news please see the *README.TXT* file, which has been copied to *$SAG/amf/vnnn*. The contents of this file are displayed automatically at the end of the installation procedure.

Unlocking the Installation

By convention, a lock file (*install.lock*) is written to $SAG during the installation in order to prevent parallel installation into $SAG at the same time.

This may happen if you accidently close XWindows sessions, or if you end your installation/uninstallation process with a kill command.

You must remove this link, because as long as this link exists, it is not possible to install/uninstall into this $SAG. Before you remove *install.lock* make sure that the process on the machine mentioned in the link no longer exists.

Example

The link below contains the current user, host ip address and process id.

```
lrwxrwxrwx   1 sag      sag            22 Feb 12 10:25 install.lock -> ↵
sag@10.20.96.151:26372
```

Verifying the Installation

Verify your Adabas Manager installation by registering an Adabas database.

▶ **To verify your Adabas Manager installation:**

1   From a web browser, logon to System Management Hub at http://<hostname>:49991/smh/login.htm.

    The logon screen for the System Management Hub (SMH) appears.

2   Logon to the System Management Hub...

    The System Management Hub main panel appears.

3   Select the name of the managed host on which Adabas Manager is installed.

4   Expand the tree-view frame for the managed host by clicking on the plus sign (+) to the left of its name.

5   Expand the tree-view for Adabas Manager.

6   Right-click on **Adabas Databases** in the tree-view.

7   Select **Register DB** on the drop-down menu.

    The **Database Registration** panel appears in detail-view.

8   Enter the ID and name of the database to be registered.

9   Click the **Register** button to complete the registration, or the **Cancel** button to quit the registration window without registering the database. Press the **Help** button for more information about registering a database.

    　　　Note: If the database is currently unreachable, you will be prompted to verify that you still want to register it.

    If you clicked **Register**, a message is eventually returned indicating that the database has been successfully registered. The database appears as an option in tree-view.

10 Click on the **Close** button in detail-view to complete the transaction.

Uninstalling Adabas Manager under UNIX

In order to uninstall AdabasManager on UNIX platforms, perform the steps that are described in the following section.

Remove the Adabas Manager Files

Remove the Adabas Manager files (which were extracted from the installation CD to your machine) and the Adabas Manager product entry in the SAGInst.xml installation catalog.

> **Note:** If Event Replicator Administration is installed, it must be uninstalled before the uninstallation of Adabas Manager.

▶ **To remove the Adabas Manager files**

1   Start the SAGRM utility from the $SAG directory or a directory above it by issuing the following command:

```
sagrm
```

2   Select **Adabas Manager for Mainframe**. All files which have been extracted from CD will now be removed and the selected product is removed from the SAGInst.xml installation catalog.

Adapt sagenv.new

▶ **To adapt the file sagenv.new**

■ By default, the script sagenv.new to set up the environments for all Software AG products is generated during installation. This script is not adapted by SAGRM. If you use this script, or any copy of this script or any other script to set up your Adabas Manager environment, remove the instructions which set up the Adabas Manager environment for the uninstalled version, as shown in the following example:

Example

```
#  Adabas Manager for Mainframe
# -------------------------------------------
if [ -f "$SAG"/amf/v76/INSTALL/amfenv ]; then
  . "$SAG"/amf/v76/INSTALL/amfenv
fi
```

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