Adabas Vista

Adabas Vista Installation

Version 8.6.1

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ADABAS & NATURAL

This document applies to Adabas Vista Version 8.6.1 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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1 About this Documentation

Document Conventions

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

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- Add product feature requests.

Data Protection

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

2 Adabas Vista Installation

This document describes how to install Adabas Vista.

Important: Before installing or upgrading, review the release notes, readmes, changes, system requirements, and installation or upgrade guide for the products you want to install. This documentation provides information you must know about the products before installing or upgrading, and also describes information you will need to provide during installation. Documentation is available at **https://documentation.softwareag.com/**.

The Adabas Vista installation jobs can either be taken from the job library on the Adabas Vista installation medium and manually customized, or can be generated using System Maintenance Aid (SMA).

In either case, the relevant job numbers (prefixed by the Adabas Vista product code AVI) are the same and are referenced at the appropriate step of the installation procedure.

For information about using SMA, refer to the *System Maintenance Aid* documentation.

3 Installation Prerequisites

This section describes the prerequisites for Adabas Vista.

Operating Systems

Adabas Vista is compatible with the z/OS operating system.

Note: For information regarding product compatibility with IBM platforms and any IBM requirements, please review the **Product Compatibility** for IBM Platforms web page.

For more information about supported operating systems, refer to the *Adabas Installation* documentation.

Software Prerequisites

- Adabas
- Adabas System Coordinator
- Natural

Adabas

Adabas Vista can be used with

- any supported level of Adabas, or
- any supported level of Adabas Cluster Services, or
- any supported level of Adabas Parallel Services.

Refer to the Adabas documentation for more information.

Adabas System Coordinator

Adabas Vista requires that you first install the Adabas System Coordinator. Refer to the Adabas System Coordinator documentation for more information.

Natural

Natural is required by the Online Services application SYSAVI. Any supported level of Natural can be used.

Refer to the Natural documentation for more information.

4 Adabas Compatibility

Some Adabas parameters may need to be tuned for use with Adabas Vista. See section Using Adabas Parameters for more information.

Adabas Vista does not support the following features of Adabas:

- single-user mode
- TCP/IP interface

Adabas Vista does not support multiple Adabas SVCs under Com-plete.

5 Before You Install

This section describes actions which must be taken prior to performing Adabas Vista installation.

Adabas System Coordinator and TP Library Names

Before you start to install Adabas Vista, you must:

- have already installed the Adabas System Coordinator. Adabas Vista uses the configuration file which is maintained by the Adabas System Coordinator.
- identify the TP system library names.

Configuration File Availability

Adabas Vista will only operate correctly if a configuration file is continuously available. Operational procedures are necessary to ensure that an approriate configuration file is available:

- before any application opens to clients; and
- before any TP initialization processing that involves pseudo- or real database communication.

The configuration file must remain available throughout the duration of all Vista-enabled jobs.

When a Vista-enabled job initializes, Adabas Vista will establish base level runtime controls for use by all clients within that job. These base level runtime controls are defined using Adabas Vista Online Services. If no base level runtime controls are defined for the current job, or the configuration file is not available at initialization time, default runtime controls will be used.

If the configuration file becomes temporarily unavailable, client sessions will continue. However, without the configuration file Adabas Vista will not be able to determine the existence of translation and partitioning rules for a particular source database and file number. In these circumstances all database communication will be routed unchanged to the source database and file number provided by the application. Because the results of these accesses may be unpredictable, it is recommended that you use virtual source database numbers for files that are to be defined as partitioned or translation files.

- System Initialization

- Client Initialization

System Initialization

The base level runtime controls needed for the current job become effective when clients initialize. These runtime controls are defined using Adabas Vista Online Services.

If no runtime controls are defined for the current job - or the configuration file is not available - default runtime controls will be used.

Client Initialization

The presence of translation rules or partitioned files is determined when the user initializes.

If the configuration file is temporarily unavailable, the session is allowed to continue processing to minimize the impact, although Adabas Vista's partitioning and translation capabilities cannot be used until the configuration file becomes available and the user subsequently logs off and back on again.

A console message with the prefix AVI-0013 is displayed once when the configuration file becomes unavailable and again when it becomes available.

All database communication by a session that has been allowed to continue without the availability of the configuration file is routed unchanged to the source database and file number provided by the application. Because the results of these accesses may be unpredictable, it is recommended that you use virtual source database IDs for files that are to be defined as partitioned or translation files.

Use of Unmodified ADALNK

For the requirements regarding the use of an unmodified ADALNK batch link routine refer to the corresponding information in the *Before You Install* section of the *Installation* chapter for *Adabas System Coordinator*.

Installation Under CICS

If you are installing under CICS, the Adabas Vista modules can be loaded either from the DFHRPL or the STEPLIB libraries. We recommend that you use DFHRPL. If you are not using the CICS program autoinstall feature, you will need to define the Adabas Vista client modules (AVIKRN, AVIPXY) and the configuration module (CORCFG) to CICS. All of the modules should be defined with the following characteristics: Language: Assembler ; RELoad :No ; DAtalocation: Any ; EXECKey : User.

Please also refer to the *Adabas System Coordinator Installation* documentation for similar CICS requirements for that software component.

Use of Client-Side ADALNK User Exits

Your site may attach user exits to the Adabas link module such as LUEXIT1/UEXITB and LUEXIT2/UEXITA. These exits may be site specific or required by third party products or both. Without Adabas Vista these exits experience the database and file numbers as they are set in the application program. Once you adopt Vista there may be a need for your own site exits and/or 3rd party software exits to experience the database and file numbers of the actual target (after Vista has altered it based upon the translation and partition rules you set). If any of your exits need to experience actual database and file numbers please refer to the Adabas System Coordinator Installation documentation, section Before you Install, sub-section Use of Client-Side ADALNK User Exits.

6 Installation Procedure

This section describes the procedure for Adabas Vista **z/OS Installation**.

7 z/OS Installation

The Installation Medium

Review the *Product Delivery Report* that accompanies the release package before restoring the release data to disk. Information in this report supersedes the information in this documentation.

The installation medium contains the following data sets in the sequence indicated in the report:

Data Set	Contents
AVI*vrs*.LOAD	AVI load modules
AVI*vrs*.SRCE	AVI source modules
AVI*vrs*.INPL	SYSAVI objects
AVI*vrs*.ERRN	SYSAVI error messages

where *vrs* in data set names represents the version, revision, and system maintenance level of the product.

Installation Checklist

The configuration file, configuration module, and client component of the Adabas System Coordinator must already be installed as indicated in the following checklist before any attempt is made to install Adabas Vista:

Step	Description
1	Load the Adabas System Coordinator configuration file
2	Build the Adabas System Coordinator configuration module CORCFG
3	Build the modified Adabas link module by including the Adabas System Coordinator client component

The installation of these components is described in detail in the *Adabas System Coordinator* documentation.

Once the required Adabas System Coordinator components have been installed, you can proceed to install Adabas Vista. The following checklist identifies the steps necessary to successfully complete the installation:

Step	Description
1	Restore the Adabas Vista libraries and other items from the installation medium
2	Prepare SYSAVI
3	Enable the client process
4	Enable the database process
5	Enable the Adabas System Coordinator daemon process

Installation Procedure

Following is the general Adabas Vista installation procedure. The actual installation depends on your particular requirements and the specific contents of the release package provided for your site. Information in the release package is intended for your system. If that information differs from the information in this section, use the release package information or contact technical support for assistance.

Step1: Copying the Medium Contents to Disk

If you are using System Maintenance Aid (SMA), refer to the SMA documentation (included on the current edition of the Natural documentation CD). If you are not using SMA, perform steps 1a, 1b and 1c as described in this section:

- Step 1a: Copy Data Set COPY.JOB from Medium to Disk
- Step 1b: Modify COPY.JOB
- Step 1c: Submit COPY.JOB

Note: If the data sets for more than one product are delivered on the medium, the data set COPY.JOB contains the JCL to unload the data sets for all delivered products from the medium to your disk. After that, you will have to perform the individual install procedure for each component.

Step 1a: Copy Data Set COPY.JOB from Medium to Disk

The data set COPY.JOB (label 2) contains the JCL to unload all other existing data sets from medium to disk. To unload COPY.JOB, use the following sample JCL:

```
//SAGTAPE JOB SAG,CLASS=1,MSGCLASS=X
//* --------------------------------
//COPY EXEC PGM=IEBGENER
//SYSUT1 DD DSN=COPY.JOB,
// DISP=(OLD,PASS),
// UNIT=(CASS,,DEFER),
// VOL=(,RETAIN,SER=<Tnnnnn>),
// LABEL=(2,SL)
//SYSUT2 DD DSN=<hilev>.COPY.JOB,
// DISP=(NEW,CATLG,DELETE),
// UNIT=3390,VOL=SER=<vvvvvv>,
// SPACE=(TRK,(1,1),RLSE),
// DCB=*.SYSUT1
//SYSPRINT DD SYSOUT=*
//SYSIN DD DUMMY
//
```

```
where:

<hilev>  is a valid high level qualifier
<Tnnnnn> is the tape number
<vvvvvv> is the desired volser
```

Step 1b: Modify COPY.JOB

Modify the COPY.JOB to conform with your local naming conventions and set the disk space parameters before submitting this job:

- set HILEV to a valid high level qualifier
- set LOCATION to a storage location
- set EXPDT to a valid expiration date

Step 1c: Submit COPY.JOB

Submit COPY.JOB to unload all other data sets from the medium to your disk.

Step 2. Prepare SYSAVI

The Adabas Vista Online Services (SYSAVI) objects are delivered on the Adabas Vista distribution medium.

To prepare SYSAVI:

1 Use your everyday Natural INPL job to load the administration tool (Natural application SYSAVI) and associated message texts into your Natural system. For reference a sample Natural INPL job called CORI061 can be found with the sibling System Coordinator product

in the jobs distribution file. The INPL job's work file 1 must reference the distribution file AVI*vrs*.INPL and work file 2 must reference AVI*vrs*.ERRN.

Note: If you use Natural Security in this system, define the libraries SYSAVI and SYSMV*vrs* (where vrs is the level you are installing, for example 821) and protect as you require. You may define MENU as the startup transaction for SYSAVI. However, you must not define a startup transaction for SYSMV*vrs*.

2 2. Use the following parameter to define the Natural session where SYSAVI is to be used:

```
LFILE=(152,dbid,fnr<,passw><,ciph>) ↩
```

where *dbid* and *fnr* define the location of the Adabas System Coordinator configuration file.

Alternatively, assemble the Natural parameter module with

```
NTFILE,ID=152,DBID=dbid,FNR=fnr ↩
```

Step 3. Enable the client process

To enable the Adabas Vista client process

1 for the Adabas System Coordinator:

- make the modified Adabas link module available (COMPLIB for Com-plete, DFHRPL for CICS, STEPLIB for all other client systems);
- make the generated configuration module CORCFG available (COMPLIB for Com-plete, STEPLIB for all other client systems); and
- make the Adabas System Coordinator load library available (COMPLIB for Com-plete, STEPLIB for all other client systems).

2 for Adabas Vista:

- make the Adabas Vista load library available (COMPLIB for Com-plete, STEPLIB for all other client systems).

Step 4. Enable the database process

To enable the Adabas Vista database process

1 for the Adabas System Coordinator:

- make the Adabas System Coordinator load library available (STEPLIB).

2 for Adabas Vista:

- set the Adabas parameter `ADARUN VISTA=YES`.

Step 5. Enable the Adabas System Coordinator daemon process

Note: This step is required only if you intend to run clustered applications with dynamic transaction routing across multiple operating system images in an IBM sysplex environment.

To enable the Adabas Vista System Coordinator daemon process

1 Add the control statement `PRODUCT=AVI` to the DDCARD input of the startup procedures for the Adabas System Coordinator daemon.

2 Make the Adabas Vista load library available to the Adabas System Coordinator daemon (STEPLIB).

8 Verifying the Installation

These verification instructions involve adjusting some XML input to suit the settings at your site and then running an XML IMPORT job (batch Natural) to load the verification configuration into your system ready for use.

1. This verification procedure requires you have a copy of the sample Employees file that is distributed with Adabas already loaded and available.
2. The source member IMPORTX contains an XML file that was previously used to export verification for use during this procedure. Edit this file:
   a. This XML input contains multiple copies of runtime controls for various types of jobs (TSO, TIAM, CICS, COM-PLETE). You must decide which TP system you will use to perform your verification.
   b. Remove all the runtime control samples for the TP systems you will not use.
   c. For the remaining one you will use, alter the job name value from *AVIDEMO* to the job name used at your site.
   d. Alter the translation XML input so that all occurrences of the values *999* and *888* are set to the real database and file number for your sample Employees file
3. Now use your normal Natural batch job control to set up a job taking *CMSYNIN* input from the *IMPORTC* member from the Vista source library and *CMWRKF01* input from member *IMPORTX* also on the Vista source library. Also set *LFILE=(152,xxxxx,yyyyy)* to reference your configuration file set up during the installation.
4. Run the IMPORT job prepared above, now the configuration should be correctly set up for use at your site.
5. Login to the TP system and go to the Adabas Vista administration to see:
   a. A translation rule for source database 12345 file 12345 in the SAGDEMO page (within the SAGDEMO generation) that resolves to the intermediate (not real) database 23456 file 23456
   b. A partitioned file definition for source database 23456 file 23456 that resolves to the real sample Employees file you already have loaded.

Note: This partitioned file clearly only has a single partition but it allows you to see the software using the feature.

6. Use Adabas Vista administration to activate the SAGDEMO generation, see the Adabas Vista online services (Translation) section of the documentation for more information.
7. Recycle the TP system to be used.
8. Define the `EMPLOYEES-ADABAS-VISTA DDM` to Natural Security (if you use it)
9. Type `VERIFY` at the `SYSAVI` command line to execute the Adabas Vista verification procedure
10. After running this verification enter COR at the command line to go to Adabas System Coordinator online administration and view current activities for the job (see Activity Displays in the Vista documentation for more details); you will see that distributed and focused partitioning is taking place.

    Note: Where translation and partitioning takes place for a command the statistics are shown as partitioning, translation statistics show commands that are translated without resolving to a partitioned file.

11. That's it, your installation is working, it is verified.

9 Upgrading from Earlier Versions

This section provides an overview of upgrading Adabas Vista and is applicable to the upgrading of version 8.2 SP2 and above.

General Upgrade Information

Configuration File

The new version of Adabas Vista is fully compatible with your current configuration file. No migration of the configuration file is required.

This compatibility enables the same configuration file to be shared between the new version and your current version.

Online Services (SYSAVI)

The new version of the Adabas Vista online services can be used to administer and monitor both new and current versions. Of course, any newly implemented configuration and monitoring capability will only take effect when the appropriate new version component is running.

Likewise, your current version of the Adabas Vista online services can be used to administer and monitor both new and current versions. Of course, any newly implemented configuration and monitoring capability will not be available for use.

AVI Maintenance

Refer to Software GmbH's **Empower** website for the latest available maintenance for this version of Adabas Vista.

If maintenance is available, we strongly recommend it is applied before proceeding with the upgrade.

COR-based Product Version Compatibility

This version of Adabas Vista is compatible with all supported versions of:

- Adabas System Coordinator
- Adabas Fastpath
- Adabas Transaction Manager

Upgrade Procedure

This section describes the required steps to upgrade Adabas Vista.

Step1: Upgrading Databases

The database component of Adabas Vista is provided on the Adabas distribution library (module AVIADA) and is installed when the database runs with `ADARUN VISTA=YES`.

There are no upgrade considerations for databases, the new version of Adabas Vista is compatible with the AVIADA module distributed with all supported versions of Adabas.

Step2: Upgrading COR Daemons

Note: This step is only applicable if you currently run COR daemons with the control statement `PRODUCT=AVI` in the DDCARD input.

Upgrade the COR daemon component of Adabas Vista by replacing the current version of the Adabas Vista load library with the new version.

The new version of the Adabas Vista COR daemon component is fully backward compatible with your current version of the Adabas Vista client component.

COR daemons within a group can be upgraded individually or all together at the same time.

Note: In a multi-system environment, the Adabas Vista COR daemon component - across all systems - must be upgraded before a single client is upgraded.

Step3: Upgrading Clients

Upgrade the client component of Adabas Vista by replacing the current version of the Adabas Vista load library with the new version.