TIBCO ActiveMatrix® Adapter Service Engine for SAP

Installation

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Preface

This document describes the process of installing TIBCO ActiveMatrix Adapter Service Engine for SAP.

Topics

- *Related Documents, page vi*
- *Terminology and Acronyms, page x*
- *How to Contact TIBCO Customer Support, page xii*

Related Documents

TIBCO ActiveMatrix Adapter Service Engine for SAP Documentation

The following documents form the TIBCO ActiveMatrix Adapter Service Engine for SAP documentation set:

- *TIBCO ActiveMatrix Adapter Service Engine for SAP Installation* Read this manual to learn how to install TIBCO ActiveMatrix Adapter Service Engine for SAP.
- *TIBCO ActiveMatrix Adapter Service Engine for SAP Configuration and Deployment* This manual explains how to create and configure adapter projects. Information on deploying adapter projects is also included.
- *TIBCO ActiveMatrix Adapter Service Engine for SAP Release Notes* Read this document for information about new features, deprecated features, and open and closed issues.

Before TIBCO ActiveMatrix Adapter Service Engine for SAP can be installed and used, you have to install TIBCO ActiveMatrix Adapter for SAP. The following documents form the TIBCO ActiveMatrix Adapter for SAP documentation set:

- *TIBCO ActiveMatrix Adapter for SAP Concepts* Read this manual before reading any other book in the documentation set. This book describes the adapter, adapter features, and the applications that the adapter interacts with.
- *TIBCO ActiveMatrix Adapter for SAP Installation* Read this manual to learn how to install TIBCO ActiveMatrix Adapter for SAP.
- *TIBCO ActiveMatrix Adapter for SAP Configuration and Deployment* This manual explains how to create and configure standalone adapter projects. Information on deploying adapter projects is also included.
- *TIBCO ActiveMatrix Adapter for SAP Examples* This manual provides instructions to run the examples that demonstrate use of the adapter.
- *TIBCO ActiveMatrix Adapter for SAP Release Notes* Read this document for information about new features, deprecated features, and open and closed issues.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products.

- TIBCO ActiveMatrix® Service Grid

- TIBCO ActiveMatrix® BusinessWorks
- TIBCO ActiveMatrix BusinessWorks Service Engine
- TIBCO ActiveMatrix® Service Bus
- TIBCO Enterprise Message Service™
- TIBCO Business Studio™

Third Party Documentation

- *SAP R/3: Implementation Guide* by Bradley D. Hiquet, available from Kelly-Lacey & Associates Inc. This is "A Manager's Guide to Understanding SAP" that emphasizes the user's point of view. Printed in 1998 by Macmillan Technological Publishing.
- *SAP R/3 Business Blueprint* by Thomas Curran and Gerhard Keller. Printed in 1998 by Prentice Hall PTR.
- *SAP R/3 System, A Client/Server Technology* by Rudiger Buck-Emden. This is a general technical overview that is easy to read. Printed in 1996 by Addison-Wesley.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
TIBCO_HOME *ENV_HOME* *AMX_HOME*	Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as *TIBCO_HOME*. The value of *TIBCO_HOME* depends on the operating system. For example, on Windows systems, the default value is `C:\tibco`. Other TIBCO products are installed into an installation environment. Incompatible products and multiple instances of the same product are installed into different installation environments. The directory into which such products are installed is referenced in documentation as *ENV_HOME*. The value of *ENV_HOME* depends on the operating system. For example, on Windows systems the default value is C:\tibco. TIBCO ActiveMatrix installs into a directory inside *ENV_HOME*. This directory is referenced in documentation as *AMX_HOME*. The value of *AMX_HOME* depends on the operating system. For example, on Windows systems the default value is C:\tibco\amx\. TIBCO ActiveMatrix Adapter Service Engine for SAP is installed in a directory inside *AMX_HOME*.
`code font`	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use `MyCommand` to start the foo process.
`bold code font`	Bold code font is used in the following ways: • In procedures, to indicate what a user types. For example: Type **`admin`**. • In large code samples, to indicate the parts of the sample that are of particular interest. • In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, `MyCommand` is enabled: `MyCommand [`**`enable`**` | disable]`

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
italic font	Italic font is used in the following ways: • To indicate a document title. For example: See *TIBCO ActiveMatrix BusinessWorks Concepts*. • To introduce new terms For example: A portal page may contain several portlets. *Portlets* are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: `MyCommand` *PathName*
Key combinations	Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C. Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Terminology and Acronyms

Term	Definition
ABAP	Advanced Business Application Programming is a language in SAP R/3 used to write SAP specific code.
ALE/IDoc	Application Link Enabling/Intermediate Documents.
API	Application Program Interface.
Application Server	The server on which the SAP R/3 processes run.
BAPI	Business API (Functionally equivalent to RFC).
CIF	Certified Intermediate Format.
Component	A self-contained replaceable functional unit of the adapter that provides a set of interfaces. TIBCO ActiveMatrix Adapter Service Engine for SAP has two kinds of components; r3Outbound and r3Inbound. r3Outbound encapsulates functionality for outbound communication with the SAP system while r3Inbound encapsulates the functionality for inbound communication with the SAP R/3 system.
EDI	Electronic Data Interchange.
EMS	Enterprise Message Service
Gateway Server	A server used to exchange data with the SAP system.
Inbound Instance	An adapter configuration listening for messages inbound to SAP R/3. Inbound instances transfer messages from the TIBCO environment to SAP R/3.
Interface	A functional sub-unit of the adapter that exposes one or more adapter services. For example, the RFCServer interface exposes RFC/BAPI Request-Response Invocation services.
JMS	JAVA Messaging Service
MBCS	Multi-byte character string.
One Way Invocation protocol	One way invocation protocol allows you to invoke the BAPI/RFC in the SAP system without waiting for a reply from the system.

Term	Definition
Outbound Instance	An adapter configuration listening for messages outbound from SAP. Outbound instances transfer messages from SAP to the TIBCO environment.
RFC	The SAP Remote Function Call Interface.
RFC Client	A SAP term for any program that can post RFCs/BAPIs/IDocs from an external system into the SAP system.
RFC Server	A SAP term for any external program that can accept and process RFCs/BAPIs/IDocs from the SAP system.
SAP Native data	All SAP data that the adapter interacts with. It consists of RFC data types. This includes IDocs received as RFC tables in an RFC function call.
SSL	Secure Sockets Layer.
TID	Transaction ID. A globally unique identifier used by transactional RFCs to ensure exactly-once execution of a transaction.
TIDManager	Transaction Identifier Manager.

How to Contact TIBCO Customer Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:

  http://www.tibco.com/services/support

- If you already have a valid maintenance or support contract, visit this site:

  https://support.tibco.com

  Entry to this site requires a username and password. If you do not have a username, you can request one.

Chapter 1 Installing TIBCO ActiveMatrix Adapter Service Engine for SAP

This book explains how to install TIBCO ActiveMatrix Adapter Service Engine for SAP on the supported platforms.

Topics

- *Installation Overview, page 2*
- *Software Requirements, page 4*
- *Installation Steps, page 5*

Installation Overview

This manual describes how to install TIBCO ActiveMatrix Adapter Service Engine for SAP.

Installation Types

Two installation types are available: Typical and Custom. The Typical installation type installs all the products in the package on the specified platform. As described next, the Custom installation type allows you to select products and components.

Installer Account

Microsoft Windows

You must have administrator privileges for the machine on which TIBCO ActiveMatrix Adapter Service Engine for SAP is installed.

If you do not have administrator privileges, the installer exits. You must then log out of the system and log in as a user with the required privileges, or request your system administrator to assign the privileges to your account.

If you intend to install the product on a network drive, you must ensure that the account used for installation has permission to access the network drive.

On Microsoft Windows 2003, before you start the installation, ensure that the files, `vpd.properties` and `vpd.properties.tibco.`*hostname*, are available in the *USER_HOME*`\Windows\` folder. If not, copy these files from `C:\Windows\` to the *USER_HOME*`\Windows\` directory.

UNIX

TIBCO ActiveMatrix Adapter Service Engine for SAP can be installed by any type of user: regular (non-root) user and super-user (root).

A graphic environment such as CDE or XWindows is required to run the installer in GUI mode.

Installer Log File

The installer log file, `tibco_universal_installer.`*timestamp*`.`*username*`_install.txt`, is written to the *User_Home*`/.TIBCO` directory. For example, on Windows the installer log is written to the `C:\Documents and Settings\`*user-name*`\.TIBCO` directory. The installer log file captures the following information:

- Installation environment details such as user who invoked the installer, hostname, java home in the environment, Operating System details, etc.
- List of assemblies installed.

Disk Space

When a TIBCO ActiveMatrix Adapter Service Engine for SAP installation package is unpacked, it is extracted into a temporary folder. The installer requires up to 550 MB of free space to extract the package to a temporary folder.

Temporary Disk Space Required by the Installer

The installer requires at least 550 MB of free space in the temporary directory. On Microsoft Windows, temporary directory location is `%SystemDrive%:\Documents and Settings\`*user_name*`\Local Settings\Temp`

If your system does not have sufficient disk space in the default temporary area, you can run the installer with a different temporary directory by using the following option when starting the installer:

`-is:tempdir /`*new_temp*

where */new_temp* has sufficient free disk space.

The installer calculates the disk space required in the product home location for the selected components before the actual installation (copying of files to system) begins. The installer will proceed only if sufficient free disk space is available in the product home location.

If the disk space required is consumed by another process while the installer is copying the files, the disk space available can be reduced. In such a case, the installer may fail and will then give a failure message.

While performing installation, it is recommended not to run other processes that consume disk space in the product home location.

System Memory

A minimum of 512 MB of physical memory is required.

Software Requirements

The following table lists the pre-requisite and compatible software.

Table 2 Required and Supported Software

Field	Description
TIBCO ActiveMatrix Adapter for SAP	Required. Must be installed before installing TIBCO ActiveMatrix Adapter Service Engine for SAP.
Any one of the following products must be installed before installing TIBCO ActiveMatrix Adapter Service Engine for SAP. See *TIBCO ActiveMatrix Adapter Service Engine for SAP readme.txt* for the supported versions.	
TIBCO ActiveMatrix Service Grid	TIBCO ActiveMatrix Service Grid is a scalable and extensible platform for developing, deploying, and managing applications that conform to a service-oriented architecture.
TIBCO ActiveMatrix Service Bus	TIBCO ActiveMatrix Service Bus provides service mediation capabilities to the TIBCO ActiveMatrix SOA platform. Service mediation allows you to easily adapt to changing requirements by providing an easy-to-use interface for developing mediation flows.
TIBCO ActiveMatrix BusinessWorks Service Engine	TIBCO ActiveMatrix BusinessWorks Service Engine provides an ActiveMatrix container to deploy ActiveMatrix BusinessWorks projects using the TIBCO ActiveMatrix Administrator.

Supported Platforms

The following table lists the platforms supported by TIBCO ActiveMatrix Adapter Service Engine for SAP.

Table 3 Supported Platforms

Platform	Hardware Platform	Disk Space (MB)
Microsoft Windows Server 2003 (Enterprise Edition) Microsoft Windows XP Professional	x86	200MB
Solaris 10	SPARC	200MB
Red Hat Enterprise Linux 4.0	x86	200MB
HP-UX 11i v3	IA64 Itanium	200MB

Installation Steps

The following sections describe the installation process in the available installation modes.

Make sure you TIBCO ActiveMatrix Adapter Service Engine for SAP in `AMX_HOME`, which is the TIBCO ActiveMatrix installation directory.

Installing in GUI Mode

To install the product in GUI mode:

1. Open the physical media or download the TIBCO ActiveMatrix Adapter Service Engine for SAP package.
2. Extract the product's archive file to a temporary directory.
3. Navigate to the temporary directory.
4. Run **TIBCOUniversalInstaller**. You can do so in one of the following ways:
   - Double-click the installer icon.
   - On the command prompt, provide the absolute path of the installer file on without specifying any options. The installer defaults to GUI mode.
5. The Welcome screen appears. Click **Next**.
6. The License Agreement screen appears. After reading through the license text, click **I accept the terms of the license agreement** and then click **Next.**

Specify installation environment

7. In the Environment drop-down list, select the installation environment click **Next**.

   The environment was created when the pre-requisite software was installed.

Select installation type

8. Select **Typical** to install all the available features or **Custom** to choose the features to install. Click **Next**.
9. If you selected Typical, proceed to step 10. If you selected **Custom**, the Product Features screen appears listing the components available for installation. By default, all the components are selected. Uncheck the checkboxes next to the components you don't want installed.Click **Next**.
10. The Pre Install summary screen appears. Verify the list of products selected for install and then click **Install**. Click **Yes to All** to close any popup windows that display during installation.
11. When prompted, specify the location of the SAP JCO jar files.

12. The Post Install Summary screen appears. This screen summarizes the installation process. Click **Finish** to complete the installation process and close the installer window.

    Files are installed in:

    ENV_HOME\amx\extensions\ase

    ENV_HOME\components\eclipse\plugins

    ENV_HOME\components\eclipse\features

    ENV_HOME\extensions\adsapse\<*version_number*>docs

    ENV_HOME\extensions\adsapse\<*version_number*>samples

Installing in Console Mode

To install the software in console mode:

1. Open the physical media or download the TIBCO ActiveMatrix Adapter Service Engine for SAP package.
2. Extract the product's archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Run **TIBCOUniversalInstaller -console**.
5. Complete the installation by responding to the console window prompts.

While running in the console mode, you can use the following keys to move through the installation process:

Enter: Moves forward in the installer.

BackSpace or 2: Goes back to the previous screen.

3: Cancels the Wizard and exits the installation or uninstallation.

5: Redisplays the current screen.

Installing in Silent Mode

In silent mode, the universal installer does not prompt for any inputs during installation. Instead, the inputs are read from a response file that can be provided as a command-line parameter.

The `TIBCOUniversalInstaller.silent` file is packaged in the directory that contains the universal installer. You must edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set. While you can use the `TIBCOUniversalInstaller.silent` file, it's good practice to copy the file to a different name and use that file for the silent install.

The following procedure explains how to install a TIBCO ActiveMatrix Adapter Service Engine for SAP in silent mode.

1. Open the physical media or download the TIBCO ActiveMatrix Adapter Service Engine for SAP package.
2. Extract the product's archive file to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller.silent` file and rename the file.
5. Using a text editor, open the copied file and update the install location and features to install.
6. Run the following:

   Windows `TIBCOUniversalInstaller.cmd -silent -V responseFile="`*myfilename*`.silent"`

   UNIX `TIBCOUniversalInstaller -silent -V responseFile="`*myfilename*`.silent"`

   When installation completes, a line similar to the following is written to the installer log file:

   ```
   Install, com.tibco.installer.util.TIBCOInstaller, dbg.Debug,
   The installation has completed. Please check the log file for
   additional information.
   ```

Post-Installation Procedures

- When you start TIBCO Business Studio for the first time after installing TIBCO ActiveMatrix Adapter Service Engine for SAP, make sure you use the `-clean` option.
- On the Linux platform, make sure you set the path to the JCO libraries in the LD_LIBRARY_PATH variable before starting TIBCO Business Studio.
- If any errors occur during installation, they will be listed in the installation log files located `C:\Documents and Settings\<`*user_name*`>\.TIBCO`.
- During the installation process, make sure application specific libraries are copied to the correct location. Check the post installation log file,

`adsapsepostinstall.log`, to make sure the libraries have been successfully copied.

Typically, on Microsoft Windows the post installation log file is located in `C:\Documents and Settings\<user_name>\.TIBCO\ENV_HOME`.

Following are sample contents of the adapter post install log file.

```
[echo] Building target Copy
     [echo] C:\tibco
     [echo] Windows XP
     [echo]
C:\tibco/components/eclipse/plugins/com.tibco.adr3ui.tpvl.sap_1.0.
0.002/lib
copyWinFiles:
     [echo] Copying files ...
copyJarSuccess:
     [copy] Copying 1 file to
C:\tibco\components\eclipse\plugins\com.tibco.adr3ui.tpvl.sap_1.0.
0.002\lib
     [echo] ==== Successfully Copied: sapjco.jar to
C:\tibco/components/eclipse/plugins/com.tibco.adr3ui.tpvl.sap_1.0.
0.002/lib ====
     [echo]
copyJarFailure:
copyRfcLibSuccess:
     [copy] Copying 1 file to
C:\tibco\components\eclipse\plugins\com.tibco.adr3ui.tpvl.sap.win_
x86_1.0.0.001\nativelib
     [echo] ==== Successfully Copied: librfc32.dll to
C:\tibco/components/eclipse/plugins/com.tibco.adr3ui.tpvl.sap.win_
x86_1.0.0.001/nativelib ====
     [echo]
copyRfcLibFailure:
copyJcoRfcLibSuccess:
     [copy] Copying 1 file to
C:\tibco\components\eclipse\plugins\com.tibco.adr3ui.tpvl.sap.win_
x86_1.0.0.001\nativelib
     [echo] ==== Successfully Copied: sapjcorfc.dll to
C:\tibco/components/eclipse/plugins/com.tibco.adr3ui.tpvl.sap.win_
x86_1.0.0.001/nativelib ====
     [echo]
copyJcoRfcLibFailure:
copyLinuxFiles:
```

Uninstallation

Before uninstalling the TIBCO ActiveMatrix Adapter Service Engine for SAP component, make sure you deactivate the container for the node where the TIBCO ActiveMatrix Adapter Service Engine for SAP component is installed.

Follow these steps to uninstall the adapter servive engine component:

1. Navigate to TIBCO_HOME_uninstall directory and invoke **universal_uninstall**.
2. Choose the **Custom Uninstall** option
3. Check the checkbox for the TIBCO ActiveMatrix Adapter Service Engine for SAP and uncheck the checkboxes for the other listed products.
4. The summary screen appears. Click **Finish** to exit the uninstall wizard. After uninstalling the software, the uninstaller may prompt you to reboot your computer.
5. Clean up directories. After running the uninstaller, manually delete the following directories under *ENV_HOME*`\components\eclipse\plugins`:
   - com.tibco.adr3ui.tpvl.sap.win_x86_1.0.0.001
   - com.tibco.adr3ui.tpvl.sap_1.0.0.001

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