

TIBCO ActiveMatrix[®] Adapter for Tuxedo

Installation

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Contents

Tables	v
Preface	vii
Related Documentation	viii
TIBCO ActiveMatrix Adapter for Tuxedo Documentation	viii
Other TIBCO Product Documentation	viii
Third-Party Documentation	ix
Typographical Conventions	x
How to Contact TIBCO Support	xiii
Chapter 1 Introduction	1
Installer Overview	2
Installing the Adapter	2
Uninstalling the Adapter	2
Installer Mode	3
Major, Minor and Patch Releases	4
Calculating Available Disk Space	5
Installation Registry	5
Installation History	6
Adapter Components and Additional TIBCO Software	7
Adapter Components	7
Required and Optional TIBCO Products	7
Pre-Installation Worksheets	9
Adapter Machine Information	9
Tuxedo Application Requirements	10
Installation Scenarios	11
Chapter 2 Installation on Microsoft Windows Platforms	13
Installation Prerequisites	14
Minimum Disk Space	14
Required TIBCO Products	14
Supported Tuxedo Applications	14
Installing the Adapter on Microsoft Windows	16
Installing the Adapter on Microsoft Windows 2003 Terminal Server	17
Installing the Adapter on Microsoft Windows	18

Chapter 3 Installation on UNIX Platforms. 21

Installation Prerequisites 22

 Minimum Disk Space 22

 Required TIBCO Products 23

 Supported Tuxedo Applications 23

Installing the Adapter on UNIX 24

Post-Installation. 29

Appendix A Installation FAQs and Troubleshooting 31

Frequently Asked Questions 32

Running Out of Disk Space 34

Configuring TIBCO Hawk 35

Installation Failure 36

Index 37

Tables

Table 1	General Typographical Conventions	x
Table 2	Syntax Typographical Conventions	xi
Table 3	TIBCO Adapter Components	7
Table 4	Required and Optional TIBCO Products	7
Table 5	Adapter Machine Information	9
Table 6	Supported platforms, Package Names, Tuxedo Version, and Disk Space for Microsoft Windows	16
Table 7	Supported UNIX Platforms, Tuxedo Versions, Package Names, Patches, and Disk Space	25

Preface



This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme.txt file for the availability of this software version on a specific operating system platform.

This document describes how to install TIBCO ActiveMatrix Adapter for Tuxedo.

Topics

- [Related Documentation, page viii](#)
- [Typographical Conventions, page x](#)
- [How to Contact TIBCO Support, page xiii](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO ActiveMatrix Adapter for Tuxedo Documentation

The following documents form the TIBCO ActiveMatrix Adapter for Tuxedo documentation set:

- *TIBCO ActiveMatrix Adapter for Tuxedo Concepts* Read this manual to familiarize yourself with the concepts used by this product.
- *TIBCO ActiveMatrix Adapter for Tuxedo Installation* Read this manual to learn how to install TIBCO ActiveMatrix Adapter for Tuxedo.
- *TIBCO ActiveMatrix Adapter for Tuxedo Configuration and Deployment* Read this manual for instructions on creating, configuring , and deploying adapter projects.
- *TIBCO ActiveMatrix Adapter for Tuxedo Examples* Read this manual to work through the examples provided with the adapter.
- *TIBCO ActiveMatrix Adapter for Tuxedo Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products. Each of the books is available from the `doc` directory in the product's installation area.

- TIBCO Designer™
- TIBCO Administrator™
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service™
- TIBCO Hawk®
- TIBCO Adapter™ SDK
- TIBCO Runtime Agent™

Third-Party Documentation

You may also find it useful to read the Oracle Tuxedo User documentation.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>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 <i>ENV_HOME</i>. The value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• 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]
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none">• To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>.• To introduce new terms For example: A portal page may contain several portlets. <i>Portlets</i> 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 <i>PathName</i>

Table 1 General Typographical Conventions (Cont?)




Convention	Use
Key combinations	<p>Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	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.

Table 2 Syntax Typographical Conventions

Convention	Use
[]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <pre>MyCommand [optional_parameter] required_parameter</pre>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <pre>MyCommand para1 param2 param3</pre>

Table 2 Syntax Typographical Conventions

Convention	Use
{ }	<p>A logical group of items in a command. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either the pair <code>param1</code> and <code>param2</code>, or the pair <code>param3</code> and <code>param4</code>.</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either <code>param1</code> or <code>param2</code> and the second can be either <code>param3</code> or <code>param4</code>:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be <code>param1</code>. You can optionally include <code>param2</code> as the second parameter. And the last parameter is either <code>param3</code> or <code>param4</code>.</p> <pre>MyCommand param1 [param2] {param3 param4}</pre>

How to Contact TIBCO 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 user name and password. If you do not have a user name, you can request one.

Chapter 1 **Introduction**

This chapter provides an overview of the installer, the installation registry, and the additional software required before you can install TIBCO ActiveMatrix Adapter for Tuxedo.

Topics

- [Installer Overview, page 2](#)
- [Adapter Components and Additional TIBCO Software, page 7](#)
- [Pre-Installation Worksheets, page 9](#)

Installer Overview

This section introduces the adapter installer.

Installing the Adapter

Before you install the adapter, read this chapter and fill out the [Pre-Installation Worksheets](#).

Software, hardware, other prerequisites, and installation instructions for each platform are in the appropriate section of this document:

- [Chapter 2, Installation on Microsoft Windows Platforms](#)
- [Chapter 3, Installation on UNIX Platforms](#)

Uninstalling the Adapter

You either can uninstall the adapter by running the `Tibuninstall.exe` program directly or using TIBCO Installation Manager.

Using the `Tibuninstall.exe` Program

To use the `Tibuninstall.exe` program directly:

- On Microsoft Windows:

Click **Start>Programs>TIBCO>Adapter>Uninstall** or navigate to the `_uninst` directory located in the Adapter installation directory and invoke the `Tibuninstall.exe` program.

- On UNIX:

Navigate to the `_uninst` directory located in the Adapter installation directory and invoke the `Tibuninstall.bin` program.

Using TIBCO Installation Manager

TIBCO Installation Manager is used to uninstall TIBCO products. It allows you to:

- Display installed products
- Display product components
- Display product dependencies and references
- Uninstall products and all references

To start the program:

- On Microsoft Windows:

Click **Start>All Programs>TIBCO>TIBCO Installation Manager**

- On UNIX:

`TIBCO_HOME/tibco/TibcoInstallationManager.bin`

The TIBCO Installation Manager displays all TIBCO software installed on your machine. Details about the selected TIBCO product are displayed in the rows on the right. Click the Uninstall button to remove the selected product. Note that some products cannot be installed from the utility. Instructions about uninstalling these products are listed in the uninstall window after clicking the Uninstall button.

Click the TIBCO Installation Manager help button for information about using the program.



If another product is dependent on the product you want to uninstall, you must uninstall the other products first.

Installer Mode

You can run the installer in different modes. Each mode is supported on all platforms.

- GUI mode
- Console mode
- Silent mode

GUI Mode

In GUI mode, the installer presents panels that allow you to make choices about product selection, product location, and so on. When you invoke the installer by double-clicking on the icon, GUI mode is used.

Console Mode

Console mode allows you to run the installer from the command prompt or terminal window. This is useful if your machine does not have a Windows environment.

Silent Mode

Silent mode either installs using default settings or uses a response file that was saved during an earlier installation. Silent mode installs without prompting you for information.

- If no response file has been recorded earlier and you invoke the installer with the `-silent` argument, the default installation parameters are used.
- If a response file exists, and the installer is started with `-options responseFileName` as an argument, the installer uses the values specified by the user when the response file was generated.

Major, Minor and Patch Releases

Software from TIBCO uses three numbers to indicate whether the release is major, minor, or a patch. For example, 5.0.0 indicates a major release, 5.1.0 indicates a minor release, and 5.1.1 indicates a patch release.

- For a major or minor release, the installer asks if you want to upgrade, and informs you if incompatible products are on your system. If you proceed, the major or minor release is installed in a new directory that is named using the major or minor release version number.

For example, if you have installed the 5.7.0 release and are upgrading to a 6.0.0 major release, the 6.0 release will be installed under the new 6.0 directory. This allows both the 6.0 and 5.7 releases to coexist on the same machine.

- The installer for a patch release performs an automatic upgrade. For example, the installer automatically upgrades TIBCO ActiveMatrix Adapter for Tuxedo 5.0.0 to 5.0.1 by overwriting the contents of the 5.0 directory.
- If you are upgrading the adapter or reinstalling a clean version of the software, you may uninstall the product first or allow the installer to perform the upgrade or reinstall.
- If you are are reinstalling over the same adapter version:
 - You are not prompted to supply the installation location. The software is automatically reinstalled where the previous version was installed.
 - If any files are currently locked (that is, in use), the installer marks the file for deletion in the install location. After installation, the installer prompts you to reboot your system. You must reboot before using the software.

Calculating Available Disk Space

The installer calculates the disk space required in the adapter's home directory for the selected components. This calculation is done before starting to copy files. The installer will proceed only if sufficient free disk space is available.

If the available disk space is consumed by another process during installation and there is not enough room to finish, the installer may fail and display a failure message.

You can avoid this by not running other processes during installation that consume disk space in the adapter's home directory.

Installation Registry

The installer maintains an installation registry. (Note that the installer does not recognize TIBCO ActiveEnterprise 4.x products.) The registry location depends on the platform, as described below. The registry files have vpd as a prefix, which stands for Vital Product Database.



Do not edit, modify, rename, move, or remove any of the registry vpd files.

Microsoft Windows Platforms

ActiveEnterprise 6.x products maintain the installation registry in the `SystemDrive:\WINDOWS` directory. The following files represent the installation registry:

```
SystemDrive:\WINDOWS\vpd.properties
SystemDrive:\WINDOWS\vpd.properties.tibco.systemName
```

UNIX Platforms

The installation registry is maintained in the following files in the user's home directory:

```
User_Home_Directory/vpd.properties
User_Home_Directory/vpd.properties.tibco.systemName
```

If installation is performed by a super-user (root), the installation registry is maintained as follows:

On Solaris, HP-UX and AIX, in the root user's home directory (which is `/`) as two VPD files.

Installation History

The installer and uninstaller create a file called `TIBCOInstallationHistory.xml` in the same location where the installation registry is created. Each time an installation or uninstallation is performed, entries are appended to the file.

On Microsoft Windows:

`SystemDrive:\WINDOWS\TIBCOInstallationHistory.xml`

On UNIX:

`Users_Home_Directory/TIBCOInstallationHistory.xml`

The `TIBCOInstallationHistory.xml` file contains the record of all installation and uninstallation activities of all products, features, and components.



Do not edit, modify, rename, move, or remove the `TIBCOInstallationHistory.xml` file.

Adapter Components and Additional TIBCO Software

You can install the software on different machines and use them across the network. For example, you can use TIBCO Designer on one machine to configure a TIBCO Adapter for CORBA adapter on another machine.

Adapter Components

Table 3 describes the components of the adapter installation package.

Table 3 TIBCO Adapter Components

Component	Description
Runtime	This process does the actual work of passing and converting data to and from the vendor application. Data exchanges parameters are stored in projects created using the adapter palette.
Design time	An Adapter-specific GUI that is loaded in TIBCO Designer.
Documentation	This component is required for context-sensitive help.

Required and Optional TIBCO Products

The TIBCO Runtime Agent must be installed before installing the adapter. Depending on your configuration, you may also need to install additional TIBCO products.

The next table describes the TIBCO Runtime Agent and the additional TIBCO products you may be installing. For the supported versions of the listed products, refer to *TIBCO ActiveMatrix Adapter for Tuxedo readme.txt*.

Table 4 Required and Optional TIBCO Products

Product	Purpose
TIBCO Runtime Agent	<p>Required. TIBCO Runtime Agent supplies a number of TIBCO and third-party libraries used by the adapter and other TIBCO products both at design time and runtime. This includes, for example, TIBCO Rendezvous software.</p> <p>You must install TIBCO Runtime Agent on each machine that hosts an adapter. TIBCO Runtime Agent must be installed before you install the adapter.</p>

Table 4 Required and Optional TIBCO Products

Product	Purpose
TIBCO Administrator	<p>Required for deployment. TIBCO Administrator includes the following modules:</p> <ul style="list-style-type: none">• User Management. Management of authentication, roles and users, that is, connecting roles (groups) and users to access control lists (ACLs). This includes security for server-based projects at design-time and for deployed applications at runtime.• Resource Management. Monitoring of machines and of all running applications in a TIBCO administration domain. Alerts can be created, for example, to notify an administrator if the number of processes or disk usage exceed a certain number.• Application Management. Uploading of Enterprise Archive (EAR) files, creation, configuration, deployment, and monitoring of applications. This console is also used to start and stop applications. <p>TIBCO Administrator is available as a separate installation and can be installed after installing the adapter.</p>
TIBCO ActiveMatrix BusinessWorks	<p>Optional. TIBCO ActiveMatrix BusinessWorks is a scalable, extensible, and easy-to-use integration platform that allows you to develop integration projects. TIBCO Adapters are typically part of integration projects created using TIBCO ActiveMatrix BusinessWorks.</p> <p>TIBCO ActiveMatrix BusinessWorks is available as a separate installation and can be installed after installing the adapter.</p>
TIBCO Enterprise Message Service	<p>Optional. TIBCO Enterprise Message Service allows you to use the Java Messaging Services (JMS) as the message transport for your adapter.</p> <p>TIBCO Enterprise Message Service is available as a separate installation and can be installed after the adapter is installed.</p>

Pre-Installation Worksheets

The most time consuming part of an adapter installation is the collection of environment information and parameters. This section helps you complete this process. It provides a checklist of parameters you should obtain from various system administrators within your organization before installing the adapter.

The information below is required during installation of TIBCO ActiveMatrix Adapter for Tuxedo

Adapter Machine Information

Table 5 provides a checklist of parameters you should obtain from various system administrators within your organization before installing the adapter.

Table 5 Adapter Machine Information

Adapter Information	Description	Value for Your Machine
Hostname	Name of the machine on which the adapter is being installed. (Example: adapter1.tibco.com)	
IP address	IP address of the machine on which the adapter is being installed. (Example: 192.168.12.12)	
TIBCO home directory path	This is the directory where TIBCO Runtime Agent was installed. TIBCO Runtime Agent must be installed on each machine where the adapter will be installed. (By default, this is C:\tibco on Microsoft Windows)	
Installer user account	Account to log on to the machine with and run the installer. This user must have write permission to the TIBCO home directory. (Example: administrator)	
Installer user password	Password for the installer user account above.	

Table 5 Adapter Machine Information

Adapter Information	Description	Value for Your Machine
Installer user domain (Windows only)	Network domain to which the user account above belongs. (Example: ENGR2)	
Adapter installation package	Obtain the correct TIBCO ActiveMatrix Adapter for Tuxedo installation package. This is available on CD, FTP, network drive, or at download.tibco.com .	
Disk and path on which to install adapter	(Example: /opt/tibco)	
How will machine be accessed	<input type="checkbox"/> directly <input type="checkbox"/> terminal server <input type="checkbox"/> xterm <input type="checkbox"/> telnet <input type="checkbox"/> other:	
How will installation files be transferred to machine	<input type="checkbox"/> CD-drive <input type="checkbox"/> internet download <input type="checkbox"/> FTP to machine <input type="checkbox"/> network disk mounting	

Tuxedo Application Requirements

- Determine which Tuxedo versions are supported.
- See [Tuxedo Application Requirements on page 10](#) for Microsoft Windows.
 - See [Supported Tuxedo Applications on page 23](#) for UNIX systems.

Tuxedo Client or Server Software

Please specify where software for Tuxedo can be found within your organization:

☐ It's already installed on the machine where the adapter will be installed.

Location on disk:

☐ Installation files are available via:

FTP (Server : User : Password:)

Disk mount (full path :)

CD provided during install by (name/extension) :

Test Connectivity

If you install the Tuxedo client, you need to start it and ensure you can connect to the Tuxedo server using the username and password that you were provided by your administrator.

Installation Scenarios

The following two installation scenarios are possible:

- Workstation Client — There are two situations for this installation scenario.
 - The adapter and the Tuxedo server can be installed on different machines.
 - The adapter and the Tuxedo server can be installed on the same machine. The adapter acts as a Tuxedo Workstation Client.
- Native Client — The adapter is installed on the machine where the Tuxedo server is available. The adapter acts as a Tuxedo Native Client.

Install the following software on the machine on which you intend to install the adapter:

- If the adapter will be used as a Tuxedo Workstation Client, install Tuxedo as a Full Server or Workstation Client
- If the adapter will be used as a Tuxedo Native Client, install Tuxedo as a Full Server

Chapter 2

Installation on Microsoft Windows Platforms

This chapter describes how to install TIBCO ActiveMatrix Adapter for Tuxedo on supported Microsoft Windows platforms.

Topics

- [Installation Prerequisites, page 14](#)
- [Installing the Adapter on Microsoft Windows, page 16](#)

Installation Prerequisites

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements and that you have the prerequisite software installed.

Product dependencies at install time are resolved at user level through the installation registry maintained at the user's home directory. See [Installation Registry on page 5](#) for more information.

The following is a list of prerequisites for installing the adapter on Microsoft Windows platforms.

- [Minimum Disk Space](#)
- [Required TIBCO Products](#)
- [Supported Tuxedo Applications](#)

Minimum Disk Space

The installer requires 46 MB of free space in the temp directory. The entire package is extracted into a temp folder, typically:

SystemDrive: \Temp or

SystemDrive: \Documents and Settings*user_name*\Local Settings\Temp

Required TIBCO Products

Before you can install the adapter, you must install TIBCO Runtime Agent. If you use the typical TIBCO Runtime Agent installation, the installer places all of its libraries and other products required by the adapter into the *TIBCO_HOME* directory, C:\tibco.

During adapter installation, the adapter installer checks for the availability of all required products. If any are not available, the installer immediately exits. When all products are available, you can proceed with the installation.

Supported Tuxedo Applications

The adapter works with the following versions of Tuxedo:

- Tuxedo 6.5
- Tuxedo 7.1

- Tuxedo 8.0
- Tuxedo 8.1
- Tuxedo 9.0
- Tuxedo 9.1
- Tuxedo 10.0
- Tuxedo 10.3

Installing the Adapter on Microsoft Windows

You can either download the adapter package or install the package from a CD. The installer prompts you to accept the license agreement, then to choose to perform a typical install or custom install.

- A typical install has minimal prompts and installs standard components in default locations.
- A custom install prompts you to choose which components of the product suite to install and installs only those components.

The installer checks your system for the installation home directory that was established when TIBCO Runtime Agent was installed. The adapter is installed under the installation home directory.

You must use the administrator account to install this product. If you do not have administrator privileges, the installer will exit. You must then log out of the system and log in as a user with the required privileges.

If installing the adapter from a network drive, make sure that the account used for installation has permission to access the network drive.

Supported Platforms and Disk Space

The following table lists the platform-specific installation packages, where *version_number* is the Adapter release number. For example, the installation package name for the TIBCO ActiveMatrix Adapter for Tuxedo 6.0.0 on the Microsoft Windows 2003 platform using Tuxedo 6.5 is `TIB_adtuxedo-suite_6.0.0_win_x86_tuxedo65.exe`.

Table 6 Supported platforms, Package Names, Tuxedo Version, and Disk Space for Microsoft Windows

Platform	Tuxedo Version	Package Name	Hardware Platform	Disk Space (MB)
Microsoft Windows XP Professional Microsoft Windows 2003	Tuxedo 6.5	<code>TIB_adtuxedo-suite_version_number_win_x86_tuxedo65.exe</code>	x86	80
Microsoft Windows XP Professional	Tuxedo 7.1, 8.0, 8.1	<code>TIB_adtuxedo-suite_version_number_win_x86_tuxedo91.exe</code>	x86	80

Table 6 Supported platforms, Package Names, Tuxedo Version, and Disk Space for Microsoft Windows

Platform	Tuxedo Version	Package Name	Hardware Platform	Disk Space (MB)
Microsoft Windows XP Professional	Tuxedo 9.0, 9.1, 10.0, 10.3	TIB_adtuxedo-suite_version_nu mber_win_x86_tuxedo91.exe (WorkStation only)	x86	80
Microsoft Windows 2003	Tuxedo 7.1, 8.0, 8.1, 9.0, 9.1, 10.0	TIB_adtuxedo-suite_version_nu mber_win_x86_tuxedo91.exe (WorkStation only)	x86	80
Microsoft Windows 2003 Microsoft Windows 2008	Tuxedo 10.3	TIB_adtuxedo-suite_version_nu mber_win_x86_tuxedo91.exe	x86	80



There is an additional patch for Tuxedo 7.1, 8.0, and 8.1: CR050537.

Installing the Adapter on Microsoft Windows 2003 Terminal Server

There are two modes in the Microsoft Windows Terminal Server: *Execute* and *Install*. You are logged on by default in the Execute mode, which allows you to run applications. To install an adapter so that everyone can use it, log on as administrator in the Install mode. When the adapter is installed in the Install mode, the installation registry is maintained in *SystemDrive*: \WINDOWS\.



Microsoft Windows Terminal Server must be running in remote admin mode, not application sharing mode. The adapter is not supported if it is installed on a machine that is using Microsoft Windows Terminal Server in the application sharing mode.

The best way to install the adapter on Microsoft Windows Terminal Server is to use the Add and Remove Programs control panel applet. This automatically sets your mode to Install during the installation and then back to Execute afterwards. Alternatively, you can manually change your mode to Install before starting the installation by typing the following at a command prompt:

```
C:\> change user /install
```

To change back to Execute mode after installation, type the following:

```
C:\> change user /execute
```

To check your current mode, type the following:

```
C:\> change user /query
```

Installing the Adapter on Microsoft Windows

You can use any of the following modes to install TIBCO ActiveMatrix Adapter for Tuxedo on Microsoft Windows platforms:

- [Installing Using GUI Mode](#)
- [Installing Using Console Mode](#)
- [Installing Using Silent Mode](#)
- [Installing Using a Response File](#)

Installing Using GUI Mode

GUI mode performs the installation in an interactive graphical interface. The installer prompts you for values specific to your environment. Execute the installation program by double clicking the executable file in the installation package.

Installing Using Console Mode

Console mode allows you to install the software from a console window. The installer prompts you for values. When installing in console mode you can move through the installation process as shown:

- Enter Key = Moves forward in the installer
- 2 = Goes back to previous screen
- 3 = Cancels the Wizard and exits the installation or uninstallation
- 4 = Redisplays the current screen

Execute the installation program from a command window by typing:

```
installation_package_name -a -is:javaconsole -console
```

Installing Using Silent Mode

This mode installs the adapter in a command window without prompting you for any information during installation. It installs the adapter using default values. Execute the installation program from a command window by typing:

```
installation_package_name -a -silent
```


Installing Using a Response File

This installation is performed in Console mode or in a command window. The installer prompts you for information during installation and saves your answers in a response file. The response file can be used during subsequent installations to create another instance using the same values as the original installation, either with or without prompting for changes.

- **Generating a Response File**

To install the adapter using Console mode and generate a response file, type the following in a command window:

```
installation_package_name -s -is:javaconsole -console -options-record  
responseFilepath
```



There is no space between `-options` and `-record` in the above command.

The response file does not record selections at the component level. It does record all other selections, such as which products you installed.

- **Installing Using a Response File**

After generating a response file, you can use it to install the adapter in silent mode or interactive mode.

- In silent mode, you are not prompted during installation. The adapter is installed using the values in the response file. For silent mode, type the following in a command window:

```
installation_package_name -s -is:silent -silent -options responseFilepath
```

- In interactive mode, you are prompted for values during installation. The values in the response file are presented as suggested defaults. For interactive mode, type the following in a command window:

```
installation_package_name -options responseFilepath
```


Chapter 3 **Installation on UNIX Platforms**

This chapter describes how to install TIBCO ActiveMatrix Adapter for Tuxedo on UNIX platforms.

Topics

- [Installation Prerequisites, page 22](#)
- [Installing the Adapter on UNIX, page 24](#)
- [Post-Installation, page 29](#)

Installation Prerequisites

Before starting the installation procedure, review the topics in this section to determine that your system meets the basic requirements and that you have the prerequisite software installed.

Product dependencies at install time are resolved at user level through the installation registry maintained at the user's home directory. See [Installation History](#) for more information.

The following is a list of prerequisites for installing the adapter on UNIX platforms.

- [Minimum Disk Space](#)
- [Required TIBCO Products](#)
- [Supported Tuxedo Applications](#)

Minimum Disk Space

The installer first extracts a Java Virtual Machine (JVM) in a temporary directory and uses this JVM to launch itself. The size of the extracted JVM differs from platform to platform.

On UNIX platforms the following disk space is required in the temporary area:

- On Solaris, 70 MB of free disk space in `/var/tmp`
- On HPUNIX, 97 MB of free disk space in `/var/tmp`

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

```
installation_package_name.bin -is:tempdir /new_tmp
```

where `/new_tmp` has sufficient free disk space.

Disk Space Requirement in User's Home Directory

On the UNIX platforms when a regular (non-root) user installs a TIBCO 5.1 product, the installation registry (two VPD files) is maintained in the user's home directory. As more products are installed, entries are added into these VPD files.

The user's home directory must at least have 500 KB of free disk space.

Required TIBCO Products

Before you can install the adapter, you must install the TIBCO Runtime Agent. If you use the Typical TIBCO Runtime Agent installation, the TIBCO Runtime Agent installer places all of its libraries and other products required by the adapter into the *TIBCO_HOME* directory, which is the user's home directory.

During adapter installation, the adapter installer checks for the availability of all required products. If any are not available, the installer immediately exits. When all products are available, installation will proceed.

Supported Tuxedo Applications

The adapter works with the following versions of Tuxedo:

- Tuxedo 6.5
- Tuxedo 7.1
- Tuxedo 8.0
- Tuxedo 8.1
- Tuxedo 9.0
- Tuxedo 9.1
- Tuxedo 10.0
- Tuxedo 10.3



Use the latest patches for all the Tuxedo versions.

Installing the Adapter on UNIX

You can either download the adapter package or install the package from a CD. The installer prompts you to accept the license agreement, then to choose to perform a typical install or custom install.

- A typical installation has minimal prompts and installs standard components in default locations.
- A custom installation prompts you to choose which components of the product suite to install and installs only those components.

The installer checks your system for the installation home directory that was established when TIBCO Runtime Agent was installed. The adapter is installed under the installation home directory.

Installer Account

TIBCO 5.x products can be installed by a regular (non-root) user and super-user (root). Different users can install the same product at different locations.

Product dependencies at installation time are resolved at the user level through the installation registry maintained at the user's home directory. See [Installation Registry](#) for more information.

Microsoft Windows Environment

A Windows environment such as CDE (i.e. X Windows) is required to run the installer in GUI mode. It is not required for a console installation.

Supported Platforms

The following table lists the platform-specific installation packages, where *version_number* is the Adapter release number. For example, the installation package name for the TIBCO ActiveMatrix Adapter for Tuxedo 6.0.0 on the Solaris 8 platform using Tuxedo 6.5 is

`TIB_adtuxedo-suite_6.0.0_sol8_sparc_tuxedo65.bin`.

Memory requirement for the adapter installation is around 256 MB. Your operating system must meet the minimum patch requirements listed next.

Table 7 Supported UNIX Platforms, Tuxedo Versions, Package Names, Patches, and Disk Space

Platform	Tuxedo Version	Package Name	Minimum Patch(es)	Hardware Platforms	Disk Space (MB)
Solaris 8, 9	Tuxedo 6.5	TIB_adtuxedo-suite_version_number_sol8_sp arc_tuxedo65.bin	Make sure you have the latest J2SE Cluster Patches for Solaris. See http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/patch-access	SPARC	90
Solaris 8, 9	Tuxedo 7.1, 8.0	TIB_adtuxedo-suite_version_number_sol8_sp arc_tuxedo91.bin	Additional patches for Solaris 8: 109742-04, 109279-18, 108434-17, 108435-17	SPARC	90
Solaris 8, 9,10	Tuxedo 8.1				
Solaris 9,10	Tuxedo 9.0, 9.1, 10.0	TIB_adtuxedo-suite_version_number_sol8_sp arc_tuxedo91.bin	Make sure you have the latest J2SE Cluster Patches for Solaris. See http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/patch-access	SPARC	90
Solaris 10	Tuxedo 10.3				
Solaris 10	Tuxedo 8.1, 9.1	TIB_adtuxedo-suite_version_number_sol10_x 86_tuxedo91.bin		x86	120

Table 7 Supported UNIX Platforms, Tuxedo Versions, Package Names, Patches, and Disk Space

Platform	Tuxedo Version	Package Name	Minimum Patch(es)	Hardware Platforms	Disk Space (MB)
HP-UX 11i	Tuxedo 6.5	TIB_adtuxedo-suite_ version_number_hpux111 _hppa_tuxedo65.bin	Make sure you have the latest J2SE 1.4.2 required patches:	PA-RISC	120
HP-UX 11i	Tuxedo 7.1, 8.0, 8.1	TIB_adtuxedo-suite_ version_number_hpux111 _hppa_tuxedo91.bin	http://www.hp.com/products1/unix/java/patches/index.html	PA-RISC	120
HP-UX 11i v3	Tuxedo 9.1				
HP-UX 11i v2	Tuxedo 8.0, 8.1, 9.0, 9.1				
HP-UX 11i v3	Tuxedo 9.1, 10.3	TIB_adtuxedo-suite_ version_number_hpux112 _ia64_tuxedo91.bin		Itanium	140
HP-UX 11i v2	Tuxedo 8.1, 9.0, 9.1, 10.3				
AIX 5.3	Tuxedo 8.1, 9.0, 9.1, 10.0, 10.3	TIB_adtuxedo-suite_ version_number_aix53_p ower_tuxedo91.bin		POWER	100
AIX 6.1	Tuxedo 9.1, 10.0, 10.3				
Red Hat Enterprise Linux 4.0	Tuxedo 8.1, 9.1	TIB_adtuxedo-suite_ version_number_linux24 gl23_x86_tuxedo81.b in		x86	110
Red Hat Enterprise Linux 5.0	Tuxedo 9.1, 10.0, 10.3				
SUSE Linux Enterprise Server 10	Tuxedo 10.3				

Installing the Adapter

You can use any of the following modes to install the adapter. Before proceeding with the installation, untar the installation package. The examples assume you are installing the adapter on Solaris 8.

- [Installing Using GUI Mode](#)

- [Installing Using Console Mode](#)
- [Installing Using Silent Mode with Default Values](#)
- [Installing Using a Response File](#)

Installing Using GUI Mode

A window environment such as CDE (for example, X Windows) is required to run the installer in GUI mode.

GUI mode performs the installation in an interactive graphical interface. The installer prompts you for values specific to your environment. Execute the installation program by typing the following in a terminal window:

```
% ./installation_package_name
```

Installing Using Console Mode

Console mode allows you to install the software in a console window. The installer prompts you for values. When installing in console mode you can move through the installation process as shown:

- Enter Key = Moves forward in the installer
- 2 = Goes back to previous screen
- 3 = Cancels the Wizard and exits the installation or uninstallation
- 4 = Redisplays the current screen

Execute the installation program by typing the following in a terminal window:

```
% ./installation_package_name -is:javaconsole -console
```

Installing Using Silent Mode with Default Values

This mode installs the adapter in a terminal window without prompting you for any information during installation. It installs the adapter using default values. Execute the installation program by typing the following in a terminal window:

```
% ./installation_package_name -silent
```

Installing Using a Response File

This installation is performed in a console window or a terminal window. The installer prompts you for information during installation and saves your answers in a response file. The response file can be used during subsequent installations to create another instance using the same values as the original installation, either with or without prompting for changes.

- [Generating a Response File](#)

To install the software in a terminal window and generate a response file, type the following in a terminal window (note there is no space between `-options` and `-record`):

```
installation_package_name -options-record responseFilepath
```



There is no space between `-options` and `-record` in the above command.

The response file does not record selections at the component level. It does record all other selections, such as which products you installed.

- Installing Using a Response File

After generating a response file, you can use it to install the adapter in silent mode or interactive mode.

- In silent mode, you are not prompted for values; the adapter is installed using the values in the response file. To install the adapter in silent mode using a response file, type the following in a terminal window:

```
installation_package_name -silent -options responseFilepath
```

- In interactive mode, you are prompted for values during installation. The values in the response file are presented as suggested defaults. To install the adapter using a response file in interactive mode, type the following in a terminal window:

```
installation_package_name -options responseFilepath
```

Post-Installation

The `adtuxedosetenv.csh` and `adtuxedo_wrkstn_env.sh` shell scripts are used if the adapter works as a workstation client. The `adtuxedo_native_env.sh` shell script is used if the adapter works as a native client. The shell scripts are provided with the installation for UNIX.

1. Edit the following values in the scripts. See *TIBCO ActiveMatrix Adapter for Tuxedo Configuration and Deployment*, the chapter in *Preparing Tuxedo with the proper values for these properties*.

WSNADDR (if the adapter works as a workstation client)

TUXCONFIG (if the adapter works as a native client)

2. If the Field ID is to be loaded dynamically at run-time, set the following environment variables:

FLDTBLDIR32 - contains a list of directories (separated by commas) where field tables can be found.

FIELDTBLS32 - contains a list of the files in the table directories (separated by commas) that are to be used.

3. Running the `.csh` file in C-Shell and the `.sh` file in the Korn-Shell updates the system path and library path settings.

The following environment variables are updated by the scripts:

SHLIB_PATH (HP-UX)

LD_LIBRARY_PATH (Solaris)

PATH (ALL Platforms)

Note that the shell scripts update the environment for the current shell session only. If you open a new shell session, run the script afresh to update.

The following example illustrates the process of starting the adapter from the command line. The `adtuxedo_wrkstn.tra` and `adtuxedosetenv.sh` are used:

1. Create an adapter configuration in TIBCO Designer and save it to a project.
2. Copy the `adtuxedo_wrkstn.tra` file to `MyAdapter.tra`
3. Update the `tibco.repourl` and `tibco.configurl` parameters in `MyAdapter.tra`. For more information on these parameters, see *TIBCO ActiveMatrix Adapter for Tuxedo Configuration and Deployment*, Appendix A, Adapter Properties Files.
4. Update the `application.args` parameter to (this is applicable only on Microsoft Windows)

```
application.args adtuxedo_wrkstn -system:propFile <absolute
path to MyAdapter.tra>
```

5. Open a C-shell by typing `cs` at the prompt (this is applicable only on UNIX).
6. Run the script `adtuxedosetenv.csh` in `TIBCO_HOME/adapter/adtuxedo/version_number` with the following command (this is applicable only on UNIX):

```
source adtuxedosetenv.csh
```

If the settings are updated successfully, the following message is displayed:

```
Environment variables successfully set
```

7. Start the adapter with the following command:

```
adtuxedo_wrkstn --propFile MyAdapter.tra
```

It is assumed that `MyAdapter.tra` is in the adapter installation `bin` directory. If it is copied to any other location, provide the absolute path to this file in the command as explained in the previous step.



To run the adapter as a workstation client, the `WSNADDR` parameter in the properties file needs to be set and the `adtuxedo_wrkstn` executable should be used. To run the adapter as a native client, the `TUXCONFIG` parameter in the properties file needs to be set and the `adtuxedo_native` executable should be used.

Appendix A **Installation FAQs and Troubleshooting**

This chapter lists some common errors along with their causes and solutions.

Topics

- [Frequently Asked Questions, page 32](#)
- [Running Out of Disk Space, page 34](#)
- [Configuring TIBCO Hawk, page 35](#)
- [Installation Failure, page 36](#)

Frequently Asked Questions

Where is the installation log file located?

The installation and uninstallation log files are created in the *TIBCO_HOME\log* directory.

What should I do if JVM crashes when I run the installer?

The installer first extracts the bundled JVM into a temporary area and then uses it to launch itself. If for some reason, the JVM crashes, you can still run the installer using another JVM, preferably JVM 1.5.0 or higher. The syntax is:

```
installation_package_name -is:javahome C:\j2sdk1.5.0
installation_package_name -is:javahome /opt/jre150
```

The *javahome* directory must contain *bin/java.exe* or *bin/java*.

The installer will use the externally supplied JRE to launch itself.

Will the 5.1 installer recognize a 3.x or 4.x installation?

TIBCO products follow a three digit release numbering scheme:

Major.Minor.Maintenance

Product releases that differ in either Major or Minor numbers will be a separate installation, and will not recognize the old installation. In this case, 5.0 is a major release and hence will not recognize either 3.x or 4.x product installations.

Why and how should I set the DISPLAY variable on UNIX platforms for GUI mode?

The installer on UNIX must open an additional window, generally for graphics. It uses the *DISPLAY* environment variable to specify on what computer to open the window. If the environment variable is not set, the installer will either wait or abort after displaying:

```
InstallShield Wizard
Initializing InstallShield Wizard...
Preparing Java(tm) Virtual Machine...
.....
.....
```

The *DISPLAY* variable must be set to the IP address or name of the computer (on which the installer graphics window are to be displayed), followed by a screen address, which can be *:0.0*. For example:

```
# Bourne shell
DISPLAY=<ip_address>:0.0; export DISPLAY

# Korn shell
export DISPLAY=<ip_address>:0.0

# C-shell
setenv DISPLAY <ip_address>:0.0
```

For example, consider a scenario where you need to install the adapter on a remote HP-UX machine (named *itaska*). Because you have a Solaris 5.6 machine (named *alaska*) that has a video card and monitor installed, you can run an X-window application on it. You decide to telnet to *itaska* from *alaska*.

When you telnet to *itaska*, you will not have access to *itaska*'s monitor and will be unable to display an X-window application. That is why you must set the `DISPLAY` variable, which instructs the X-server to redirect all windows to the computer set in the variable. Before doing so, the computer (specified in the `DISPLAY` variable) must give the permissions to share its monitor.

```
alaska> xhost + # give permission for all to share its monitor
alaska> telnet itaska
Welcome to HP-UX itaska 11.00
User:
Password:
itaska> export DISPLAY=alaska:0.0 # set display on alaska
itaska> installation_package_name
```

What is `uninst2` directory?

If the original `uninstall` directory is in use at `uninstall` time, it cannot be removed by the installer program. The installer then creates a second `uninstall` directory for the second installation. To remove the second installation, you must invoke the `uninstall` program from the second `uninstall` directory. The original `uninstall` directory can also be manually removed, if empty.

Running Out of Disk Space

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

However, if disk space is consumed by another process while the installer is copying the files, and if the required disk space is thereby reduced, the installer may fail and will then give a failure message.

Resolution

While performing installation, avoid running other processes that consume disk space in the product home location.

Configuring TIBCO Hawk

Problem Description

TIBCO Runtime Agent includes TIBCO Hawk Agent only. If you install the full TIBCO Hawk package after installing TIBCO Runtime Agent and do not have a Java Runtime Environment (other than the TIBCO JRE) installed, the TIBCO Hawk Configuration tool is unable to determine the Java home location and the JVM executable. The TIBCO Hawk services will not start correctly and you will be unable to start TIBCO Hawk Display.

Resolution

1. Start the TIBCO Hawk Configuration tool. For example, on Microsoft Windows:
Start>Programs>TIBCO>TIBCO Hawk>Hawk Configuration
2. Under the General tab, click **Advanced**.
3. In the Java Home Directory field, provide the path to Java. For example:
`C:\tibco\jre\1.5.0`
4. In the JVM Executable field, provide the JVM executable. For example:
`java.exe`

The services will start properly and the TIBCO Hawk Display will run.

Installation Failure

On HP-UX and AIX platforms, even though the correct version of TIBCO Runtime Agent version is already installed on the system, installation of an adapter that depends on TIBCO Runtime Agent may fail in the dependency resolution.

The TIBCO product installer maintains the registry information in the `vpd.properties.tibco.systemName` file. The value for *systemName* is determined by `InetAddress.getLocalHost().getHostName()`. However, the method `getHostName()`, returns different values based on the JRE versions used. For example, on AIX, JRE 1.4.2 returns only *systemName*, whereas JRE 1.4.0 returns *systemName.domainName*. Because of this, the installer is not able to load the correct registry file.

Resolution

On Unix platforms, the installer registry file `vpd.properties.tibco.systemName` is located in the user's home directory.

Case 1: If the `vpd.properties.tibco.systemName` file exists:

```
$ cd user's_home_directory
$ ln -s vpd.properties.tibco.systemName
    vpd.properties.tibco.systemName.domainName
```

For example:

```
$ cd ~
$ ln -s vpd.properties.tibco.upside
vpd.properties.tibco.upside.tibco.com
```

where *upside* is *systemName*, and *tibco.com* is *domainName*

Case 2: If the `vpd.properties.tibco.systemName.domainName` file exists:

```
$ cd user's_home_directory
$ ln -s vpd.properties.tibco.systemName.domainName
vpd.properties.tibco.systemName
```

For example:

```
$ cd ~
$ ln -s vpd.properties.tibco.upside.tibco.com
vpd.properties.tibco.upside
```

where *upside* is *systemName*, and *tibco.com* is *domainName*.

Index

A

Adapter Components [7](#)
 Adapter Machine Information [9](#)
 Additional TIBCO Software [7](#)
 Available Disk Space [5](#)

C

Configuring TIBCO Hawk [35](#)

D

Disk Space Requirement in User's Home Directory [22](#)

E

ENV_HOME [x](#)

F

Frequently Asked Questions [32](#)

I

Installation Failure [36](#)
 Installation History [6](#)
 Installation Registry [5](#)
 Installation Scenarios [11](#)

Installer Account [24](#)

Installer Mode [3](#)
 Console Mode [3](#)
 GUI Mode [3](#)
 Silent Mode [4](#)

Installer Overview [2](#)

 Installing the Adapter [2](#)
 Uninstalling the Adapter [2](#)

Installing the Adapter on Microsoft Windows [16](#)

Installing the Adapter on Microsoft Windows 2000 [17](#)

Installing the Adapter on UNIX [24](#)

M

Major, Minor and Patch Releases [4](#), [4](#)

P

Pre-Installation Worksheets [9](#)

R

Required and Optional TIBCO Products [7](#)
 Running Out of Disk Space [34](#)

S

Supported UNIX Platforms [24](#)

T

Test Connectivity [10, 11](#)
TIBCO Installation Manager [2](#)
TIBCO Support [xiii](#)
TIBCO_HOME [x](#)
Tuxedo Application Requirments [10](#)

U

Uninstalling the Adapter [2](#)
UNIX
 Combining Options [29](#)
 Disk Space Requirement [22](#)
 Install Using Console Mode [27](#)
 Installation Prerequisites [22](#)
 Installer Account [24](#)
 Installing the Adapter [24](#)
 Installing Using a Response File [27](#)
 Installing Using GUI Mode [27](#)
 Installing Using Silent Mode [27](#)
 Microsoft Windows Environment [24](#)
 Minimum Disk Space [22](#)
 Post-Installation [29](#)
 Required TIBCO Products [23](#)
 Supported Platforms [24](#)
 Supported Tuxedo Applications [23](#)

W

Windows
 custom install [16](#)
 Disk Space [16](#)
 Install and Generate a Response File [19](#)
 Install Using GUI Mode [18](#)
 Install Using Silent Mode [18](#)
 Installation Prerequisites [14](#)
 Installing Using Console Mode [18](#)
 Minimum Disk Space [14](#)
 Required TIBCO Products [14](#)
 Supported Platforms [16](#)
 Supported Tuxedo Applications [14](#)
 typical install [16](#)