

**TIBCO ActiveMatrix Implementation
Type for TIBCO Adapters
Installation and Configuration
Software Release 1.0.0
October 2012**



Important Information

SOME TIBCO SOFTWARE EMBEDS OR BUNDLES OTHER TIBCO SOFTWARE. USE OF SUCH EMBEDDED OR BUNDLED TIBCO SOFTWARE IS SOLELY TO ENABLE THE FUNCTIONALITY (OR PROVIDE LIMITED ADD-ON FUNCTIONALITY) OF THE LICENSED TIBCO SOFTWARE. THE EMBEDDED OR BUNDLED SOFTWARE IS NOT LICENSED TO BE USED OR ACCESSED BY ANY OTHER TIBCO SOFTWARE OR FOR ANY OTHER PURPOSE.

USE OF TIBCO SOFTWARE AND THIS DOCUMENT IS SUBJECT TO THE TERMS AND CONDITIONS OF A LICENSE AGREEMENT FOUND IN EITHER A SEPARATELY EXECUTED SOFTWARE LICENSE AGREEMENT, OR, IF THERE IS NO SUCH SEPARATE AGREEMENT, THE CLICKWRAP END USER LICENSE AGREEMENT WHICH IS DISPLAYED DURING DOWNLOAD OR INSTALLATION OF THE SOFTWARE (AND WHICH IS DUPLICATED IN THE LICENSE FILE) OR IF THERE IS NO SUCH SOFTWARE LICENSE AGREEMENT OR CLICKWRAP END USER LICENSE AGREEMENT, THE LICENSE(S) LOCATED IN THE "LICENSE" FILE(S) OF THE SOFTWARE. USE OF THIS DOCUMENT IS SUBJECT TO THOSE TERMS AND CONDITIONS, AND YOUR USE HEREOF SHALL CONSTITUTE ACCEPTANCE OF AND AN AGREEMENT TO BE BOUND BY THE SAME.

This document contains confidential information that is subject to U.S. and international copyright laws and treaties. No part of this document may be reproduced in any form without the written authorization of TIBCO Software Inc.

TIBCO, The Power of Now, TIBCO ActiveMatrix, and TIBCO Enterprise Message Service are either registered trademarks or trademarks of TIBCO Software Inc. in the United States and/or other countries.

EJB, Java EE, J2EE, and all Java-based trademarks and logos are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries.

All other product and company names and marks mentioned in this document are the property of their respective owners and are mentioned for identification purposes only.

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. SEE THE README FILE FOR THE AVAILABILITY OF THIS SOFTWARE VERSION ON A SPECIFIC OPERATING SYSTEM PLATFORM.

THIS DOCUMENT IS PROVIDED "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NON-INFRINGEMENT.

THIS DOCUMENT COULD INCLUDE TECHNICAL INACCURACIES OR TYPOGRAPHICAL ERRORS. CHANGES ARE PERIODICALLY ADDED TO THE INFORMATION HEREIN; THESE CHANGES WILL BE INCORPORATED IN NEW EDITIONS OF THIS DOCUMENT. TIBCO SOFTWARE INC. MAY MAKE IMPROVEMENTS AND/OR CHANGES IN THE PRODUCT(S) AND/OR THE PROGRAM(S) DESCRIBED IN THIS DOCUMENT AT ANY TIME.

THE CONTENTS OF THIS DOCUMENT MAY BE MODIFIED AND/OR QUALIFIED, DIRECTLY OR INDIRECTLY, BY OTHER DOCUMENTATION WHICH ACCOMPANIES THIS SOFTWARE, INCLUDING BUT NOT LIMITED TO ANY RELEASE NOTES AND "READ ME" FILES.

Copyright (c) 2005-2012 TIBCO Software Inc. ALL RIGHTS RESERVED.

TIBCO Software Inc. Confidential Information

Contents

Preface.....	7
TIBCO Product Documentation.....	8
Typographical Conventions.....	9
Connecting with TIBCO Resources.....	12
 Chapter 1 Installation Overview.....	 13
 Chapter 2 Installation Requirements and Pre-Installation Tasks.....	 15
Installation Requirements.....	16
Installation Account Requirements.....	16
Hardware Requirements.....	16
Software Requirements.....	17
Pre-installation Tasks.....	18
Configuring Red Hat Linux 6 and AIX 5.3 32-bit Platforms.....	18
Configuring AIX Platforms.....	18
Configuring the Maximum Number of Open Files on Linux Platforms.....	19
 Chapter 3 Installation.....	 21
Preparing for Installation.....	22
Installing in GUI Mode.....	23
Installing in Console Mode.....	24
Installing in Silent Mode.....	25
 Chapter 4 Post-Installation Tasks.....	 27
Troubleshooting Installation.....	28
Uninstalling	29
 Chapter 5 Configuration.....	 31
Configure TIBCO Hawk Agent.....	32
TIBCO Hawk Agent Configuration Welcome.....	32
TIBCO ActiveMatrix Enterprise Details	32
TIBCO Hawk Configuration Summary.....	32

Preface

TIBCO ActiveMatrix Implementation Type for TIBCO Adapters (Adapter IT) allows TIBCO Adapter configurations designed in TIBCO Designer and packaged in an Enterprise Application Archive (EAR) to be uploaded and deployed using TIBCO ActiveMatrix Administrator to the TIBCO ActiveMatrix runtime environment. Once deployed, the TIBCO Adapter is managed and monitored like any other ActiveMatrix application.

TIBCO Product Documentation

This section lists documentation resources you may find useful.

The following documents form the TIBCO ActiveMatrix Implementation Type for TIBCO Adapters documentation set:

- *Administration*: Read this manual to learn how to manage the runtime and deploy applications.
- *Installation and Configuration*: Read this manual to learn how to install TIBCO ActiveMatrix Implementation Type for TIBCO Adapters software.
- *Release Notes*: Read this manual for a list of new and changed features, steps for migrating from a previous release, and lists of known issues and closed issues for the release.

Typographical Conventions

Table 1: General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_NAME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments. An installation environment consists of the following properties:</p> <ul style="list-style-type: none"> • Name - Identifies the installation environment. The name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start > All Programs menu. This name is referenced in documentation as <i>ENV_NAME</i>. • Path - The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>.
<i>CONFIG_HOME</i>	<p>The folder that stores configuration data generated by TIBCO products. Configuration data can include sample scripts, session data, configured binaries, logs, and so on. This folder is referenced in documentation as <i>CONFIG_HOME</i>.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <ul style="list-style-type: none"> • Use MyCommand to start the foo process. • Code example: <pre> public class HelloWorldImpl extends AbstractHelloWorldImpl { ... public HelloWorldResponseDocument sayHello(HelloRequestDocument firstName) { ... System.out.println("--> Generating Java Hello Component Response..."); String name = firstName.getHelloRequest().equals("")?"Friend":firstName.getHelloRequest(). HelloWorldResponseDocument resp = HelloResponseDocument.Factory.newInstance(); resp.setHelloResponse("Hi " + name + "! " + "This is the Java component.\n"); System.out.println("--> Java Hello Component Response: \n\t\t" + resp.getHelloResponse()); ... } } </pre> • <i>CONFIG_HOME</i>/admin/enterpriseName/samples/remote_props.properties • Output example: <pre> C:\Program Files\tibco\amx-3\studio\3.5\eclipse>amx_eclipse_ant.exe -builddfile "C:/helloworld1/buid.xml" -data "C:/hws" Builddfile: C:/helloworld1/buid.xml createApplicationDAA: [sds.createDAA] Waited for 47ms for workspace refreshes after building features. all: BUILD SUCCESSFUL BUILD SUCCESSFUL Total time: 2 minutes 18 seconds </pre>




Convention	Use
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: <pre>MyCommand [enable disable]</pre>
<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 BusinessWorks Concepts</i>. • To define new terms. For example: A <i>keystore</i> is a database of keys and certificates. • To indicate a variable in a command or code syntax that you must replace. For example: <pre>MyCommand <i>pathname</i>.</pre>
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 command 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 param1 param2 param3</pre>
{ }	<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 param1 and param2, or the pair param3 and param4.</p> <pre>MyCommand {param1 param2} {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either param1 or param2 and the second can be either param3 or param4:</p> <pre>MyCommand {param1 param2} {param3 param4}</pre>

Convention	Use
	<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>

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community. TIBCOCommunity offers forums, blogs, and access to a variety of resources. To register, go to <http://www.tibcommunity.com>.

How to Access TIBCO Documentation

After you join TIBCOCommunity, you can access the documentation here: <http://docs.tibco.com>.

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, 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

Installation Overview

TIBCO ActiveMatrix Implementation Type for TIBCO Adapters (Adapter IT) allows you to upload and deploy TIBCO Adapter configurations designed in TIBCO Designer and packaged in an Enterprise Application Archive (EAR) to the TIBCO ActiveMatrix runtime environment using the TIBCO ActiveMatrix Administrator GUI. Once deployed, you can manage and monitor the TIBCO Adapter like any other ActiveMatrix application.

You install the Administrator component on a machine on which the TIBCO ActiveMatrix Administrator server has already been installed. You install the Runtime Host component on one or more machines on which a TIBCO Adapter product has been installed.



If you use this product with an Administrator server that has been upgraded from version 3.1.5 to version 3.2.0, auto deployment is off by default. Before you deploy applications that were created from EAR files in an upgraded environment, Select **Infrastructure > Nodes > configuration** to turn on turn auto deployment on from the Administrator GUI.

Single-machine Setup and Multi-machine Setup

During initial testing, you might install all components on one machine.

In a production scenario, use separate machines for the Administrator component and the runtime component, as follows:

Machine 1	<ul style="list-style-type: none">• TIBCO ActiveMatrix Administrator Server• TIBCO Implementation Type for TIBCO Adapters administration component• Both components use the same <i>TIBCO_HOME</i>.
Machine 2	<ul style="list-style-type: none">• TIBCO ActiveMatrix Runtime Host (TIBCO Host)• TIBCO Adapter application• TIBCO Implementation Type for TIBCO Adapters runtime component.• All components use the same <i>TIBCO_HOME</i>

You can add machines that use the Machine 2 configuration if you want to add additional adapters.

Performing Installation and Configuration of the Administration Component

You install and configure the ActiveMatrix Administrator server component and the TIBCO ActiveMatrix Implementation Type for TIBCO Adapters component, as follows.

1. If an Administrator server is currently running on your system, stop the process. Otherwise, run the TIBCO Universal Installer and select Administration when the installer prompts you to install an Administrator server.
2. Install the TIBCO ActiveMatrix Implementation Type for TIBCO Adapters Administration component. Select the same *TIBCO_HOME* location that you selected in Step 1.
3. If you performed a fresh installation of TIBCO ActiveMatrix Service Grid or TIBCO ActiveMatrix Service Bus Administrator server, run TIBCO Configuration Tool and configure the TIBCO ActiveMatrix Service Grid or TIBCO ActiveMatrix Service Bus Administrator server.
4. If you stopped the Administrator server in Step 1, restart the process.



If you perform a single machine setup, TIBCO Configuration Tool displays a list of application templates to deploy on the default node at the end of Administrator server configuration. Do *not* choose TIBCO Adapter Implementation Type App Template. Because the TIBCO Hawk Agent workflow is not run at this time, deployment of this component results in a startup failure with a `CONFIGURE_FAILED` message

Performing Installation and Configuration of the Runtime Component

You install the runtime component of TIBCO Implementation Type for TIBCO Adapters as follows.

1. If the TIBCO Adapter application is not yet installed, install the application and all prerequisite software.
2. If the TIBCO Host component of TIBCO ActiveMatrix Service Grid or TIBCO ActiveMatrix Service Bus is not yet installed, install and configure the host.
3. Install the TIBCO ActiveMatrix Implementation Type for TIBCO Adapters Runtime Host. Select the *TIBCO_HOME* location that you selected in Step 1.

The *TIBCO_HOME* location must be the same for all components on each machine, but can be different on different machines.

4. Invoke TIBCO Configuration Tool and configure the TIBCO ActiveMatrix Service Grid or TIBCO ActiveMatrix Service Bus TIBCO Host component.

If you install the Runtime Host component on a machine on which a TIBCO Host has already been configured, you can skip this step but you must restart the TIBCO Host after you install and configure the Implementation Type for TIBCO Adapters Administration component.

5. Invoke TIBCO Configuration Tool and configure the TIBCO Hawk Agent.

You can now upload an EAR file using the TIBCO Administrator GUI, and deploy to the default TIBCO Node. See *TIBCO ActiveMatrix Implementation Type for TIBCO Adapters Administration*.

Chapter

2

Installation Requirements and Pre-Installation Tasks

Before you start installation, you must make sure your environment meets the installation requirements, and you must perform pre-installation tasks.

Topics

- [Installation Requirements](#)
- [Pre-installation Tasks](#)

Installation Requirements

Before you can run the installer on your Windows or Linux system, you must log in as a user with appropriate permissions, and your system must meet hardware and software requirements.

If you plan on installing in an existing installation environment, stop all processes that are using Java from *TIBCO_HOME*.

At the end of installation, the installer offers to launch TIBCO Configuration Tool. The tool allows you to create runtime objects such as an Administration server and perform other configuration tasks. Your environment must meet additional requirements to run the tool. See [Configuration Setup and Overview](#) and [Configuration Tool Wizards and Screens](#).

Installation Account Requirements

To install on Microsoft Windows or on UNIX, you must have the appropriate privileges.

The privileges differ for the different platforms.

- **Microsoft Windows** - Only users with administrator privileges can install. If you do not have administrator privileges, the installer exits. If you intend to install the product on a network drive, ensure that the account used for installation has permission to access the network drive.
- **UNIX** - Any type of user—regular (non-root) user and super-user (root)—can perform installation. Use the same installer account to install all TIBCO products. A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.



For configuration, the user who runs TIBCO Configuration Tool must also have administrator privileges on the TIBCO Enterprise Message Service servers that you want to use in your TIBCO ActiveMatrix enterprise. If you do not have administrator privileges, additional set up allows you to perform configuration. See [Configuring TIBCO Enterprise Message Service Servers for Non-Admin Users](#).

Hardware Requirements

Installation requires a substantial amount of system memory and disk space.

Review the system memory and disk space requirements before you start installation.

System Memory

A minimum of 2 GB of physical memory is required.

Disk Space

The installer requires space in the temporary directory before installation, and additional space in the temporary directory for running the installer. You must also make sure sufficient space is in the directory you want to use as the installation environment (*TIBCO_HOME*) directory.



While performing installation, avoid running other processes that consume disk space in the installation environment directory. If another process consumes disk space while the installer is copying the files, the installer might fail and display a failure message.

Directory	Disk Space Requirement
Temporary directory before installation	Before you start the installation process, extract the contents of the installation archive to a temporary directory. The installer files consume up to 560 MB of disk space.

Directory	Disk Space Requirement
Temporary directory during installation	<p>The installer requires at least 70 MB of free space in the temporary directory. On Microsoft Windows, the default temporary directory location is %SystemDrive%\Documents and Settings\user_name\Local Settings\Temp.</p> <p>If your system does not have sufficient free disk space in the default temporary directory, you can use the <code>is: tempdir</code> option when starting the installer to run the installer with a different temporary directory. For example:</p> <pre>TIBCOUniversalInstallerPlatform -is: tempdir \new_tmp</pre> <p>where <code>\new_tmp</code> has sufficient free disk space.</p>
Installation environment directory	<p>The installer calculates the disk space required in the installation environment directory for the selected components. The calculation is done before the actual installation (copying of files to system) begins. The installer proceeds only if sufficient free disk space is available in the installation environment directory. A TIBCO ActiveMatrix product might consume 1GB of free space under <code>TIBCO_HOME</code>.</p>

Software Requirements

Your system must meet the software requirements before you run the installer. Some software is required, and some software is optional. An external database is required for production systems but not during development.

Before you run the installer, you must make sure you are running on a supported platform. See the `readme` file for information about the supported operating system platforms and versions and about required patches.

You must also have required software installed. Unless indicated otherwise, see the `readme` file for the supported products and versions.

Several software components from TIBCO Software and from other vendors might be required for the software that you install before you install TIBCO Implementation Type for TIBCO Adapters. See the `readme` file for details about required versions.

You never install TIBCO Implementation Type for TIBCO Adapters standalone. Instead, you install TIBCO Implementation Type for TIBCO Adapters in the following ways.

Administrator component

Install the Administrator component on a machine on which an ActiveMatrix Service Grid or ActiveMatrix Service Bus Administrator profile has been installed.

Runtime component

Install the runtime component on a machine on which ActiveMatrix Service Grid or ActiveMatrix Service Bus has been installed with the runtime host profile, and on which one of the supported TIBCO Adapter products has been installed.

Pre-installation Tasks

Pre-installation tasks include customizing your environment for certain platforms. In a production environment, you must set up an external database before installation because the database included with the installation is supported only for development.

Configuring Red Hat Linux 6 and AIX 5.3 32-bit Platforms

On 32-bit systems, you must install a number of additional 32-bit packages.

About this task

You can use yum to install the packages. This example illustrates how to perform the task on Red Hat Linux 6.



See the readme file for your product for a list of supported platforms. This document may describe platforms that are not supported for your product.

Procedure

1. Mount a Red Hat 6 64-bit ISO file such as `rhel-server-6.1-x86_64-dvd.iso`.
`mount /dev/cdrom /mnt/cdrom rhel-server-6.1-x86_64-dvd.iso`
2. Back up the properties file `/etc/yum.repos.d/rhel-source.repo`.
`cp /etc/yum.repos.d/rhel-source.repo /etc/yum.repos.d/rhel-source.repo.bak`
3. Edit the following properties in `/etc/yum.repos.d/rhel-source.repo`.

```
baseurl=file:///mnt/cdrom/Server
enabled=1
gpgcheck=0
```
4. Install the packages.

```
yum install glibc.i686
yum install gtk2.i686
yum install PackageKit-gtk-module.i686
yum install libcanberra-gtk2.i686
yum install gtk2-engines.i686
yum install eclipse-swt*
yum install libstdc++.so.5
```
5. On AIX change the maximum allowable size of the ARG/ENV list. If you do not make this change, TIBCO Host instances cannot start. Open a terminal window and run the following command.
`chdev -l sys0 -a ncargs=16`

Configuring AIX Platforms

On AIX, change the maximum allowable size of the ARG/ENV list. If you do not make this change, TIBCO Host instances cannot start.

Before you begin

If you installed a product that supports AIX 5.3 and you want to use that platform, you must install a number of prerequisite packages. See [Configuring Red Hat Linux 6 and AIX 5.3 32-bit Platforms](#) on page 18.

Procedure

1. Log in as root.
2. Open a terminal window and run the following command.
`chdev -l sys0 -a ncargs=16`

Configuring the Maximum Number of Open Files on Linux Platforms

Your Linux platform default settings might have a limit on the maximum number of open files and file descriptors that is too low for the product you want to install. You can change this number by editing the `limits.conf` configuration file.

About this task

On all Linux systems, the operating system controls the maximum number of open files and file descriptors. The threshold is typically too low and must be increased. The exact number depends on the features you select during installation and configuration and on the size of the workspace. In most cases, 10000 files is sufficient.

Procedure

1. Edit `/etc/security/limits.conf` and add the following line:

```
* hard nofile 10000
```
2. Log out of the system and log back in.

Chapter

3

Installation

You install TIBCO products with TIBCO Universal Installer. The installer runs on multiple platforms. You can run the installer in GUI mode, console mode, and silent mode.

After you have completed installation, run TIBCO Configuration Tool. The tool displays a list of wizards for the products that are installed in *TIBCO_HOME*. For some products, configuration includes creating runtime objects such as a TIBCO Host instance or an ActiveMatrix Administrator server. For other products, configuration includes other tasks.

For some products, the tool is included with installation and the GUI installer prompts you to run TIBCO Configuration Tool when you complete installation. For other products, you install TIBCO Configuration Tool using a separate installer.

In all cases, can also run TIBCO Configuration Tool explicitly.

Topics

- [Preparing for Installation](#)
- [Installing in GUI Mode](#)
- [Installing in Console Mode](#)
- [Installing in Silent Mode](#)

Preparing for Installation

Before you start with installation, make sure your system meets all prerequisites, decide on the installation environment name and folder, and download and extract the installation package.

About this task

TIBCO_HOME is the top-level installation directory for TIBCO ActiveMatrix products. *TIBCO_HOME* is referred to as the installation environment. Installation environments isolate product installations; a product installed into an installation environment does not access components in other environments.

An installation environment consists of a name and a folder.

- The name identifies the environment, is appended to the name of Windows services created by the installer, and is a component of the path to the product in the Windows **Start > All Programs** menu.
- The folder contains the installed software. When you install you can choose a new installation environment or an existing installation environment.

If a previous installation of a TIBCO ActiveMatrix product did not use the TIBCO Universal Installer, then the TIBCO Universal Installer does not detect the folder those older products use as an installation environment folder. If you wish to use the existing location as the installation folder, create a new installation environment and choose the folder where the other products exist. See the *Release Notes* for restrictions on the installation environment.

Procedure

1. Make sure your environment meets all requirements and perform pre-installation tasks.
2. Decide on the installation environment (*TIBCO_HOME*) you want to use. The installer will prompt you for a name and a folder.
3. Set up your environment for the installation you are planning.

Choice	Action
If you plan on installing in an existing installation environment...	Stop all processes that are using Java from <i>TIBCO_HOME</i> .
If you plan on installing on a machine on which runtime objects (Administration server, TIBCO Host instances, and nodes) are running...	Stop all the processes corresponding to the objects.

4. Open the physical media or download the archive file and extract the archive file to a temporary directory.
5. Perform installation based on the mode you selected.
 - [Installing in GUI Mode](#) on page 23
 - [Installing in Console Mode](#) on page 24
 - [Installing in Silent Mode](#) on page 25

Installing in GUI Mode

When you run the installer in GUI mode, the installer prompts you for information about the installation environment, and allows other customizations.

Before you begin

Prepare your system. See [Preparing for Installation](#) on page 22.

Procedure

1. Run `TIBCOUniversalInstaller`.
2. Click **Next** in the Welcome screen.
3. Read through the license agreement, select **I accept the terms of the license agreement**, and click **Next**.
4. Select **Use an Existing TIBCO_HOME** and choose the `TIBCO_HOME` installation environment where you installed the TIBCO ActiveMatrix component for which you want to install the TIBCO Implementation Type for TIBCO Adapters component and click **Next**.
5. In the Installation Profile Selection screen, select one of the preconfigured profiles and click **Next**.

In most cases, you install only one component per machine. During proof of concept, you can install both components on the same machine by clicking **Customize** and explicitly clicking each check box on the right.

Option	Description
Administration	Select this profile on machines where the TIBCO ActiveMatrix Administrator server has been installed. The profile installs the Adapter Implementation Type Runtime component.
Runtime Host	Select this profile on machines where a TIBCO ActiveMatrix adapter product has been installed. The profile sets up your environment to allow configuration of the TIBCO Hawk Agent software with TIBCO Configuration Tool.

6. Shut down all TIBCO processes if the installer prompts you to do so.
The installer prompts if the features are already installed on the target system. Reinstalling features is not usually recommended.
7. In the Pre-Install summary screen, verify the list of products selected for installation, and click **Install**.

Installing in Console Mode

After you prepare your system and the installation media, you can run the installer in console mode.

Before you begin

Prepare your system. See [Preparing for Installation](#) on page 22.

Procedure

1. In a console window, navigate to the temporary directory to which you extracted the files.
2. Run `TIBCOUniversalInstaller -console`.
The installer launches a second console window.
3. Respond to the prompts in the second console window.
The installer prompts for installation information and allows you to return to a previous selection periodically. The process is similar to [Installing in GUI Mode](#) on page 23.
4. When installation completes, press **Enter** to exit the installer.
The console installer does not prompt you to run TIBCO Configuration Tool. To create servers and other runtime objects, you can run TIBCO Configuration Tool explicitly.

What to do next

After you exit the installer, you perform post-installation tasks and configuration. To configure your environment, you can run TIBCO Configuration Tool in GUI mode, console mode, or silent mode.

1. Continue with [Post-Installation Tasks](#) on page 27.
2. Run TIBCO Configuration Tool.

See the documentation for your TIBCO ActiveMatrix product.

Installing in Silent Mode

You can run the installer without user input by pointing the installer to a response file. A default preconfigured response file exists.

Before you begin

Prepare your system.



If you expect to have no Internet access when you perform installation, be sure to download software assemblies before you run the installer. See [Downloading Software Assemblies if No Internet Access is Available](#). If you have Internet access, the installer silently installs the required assemblies and completes installation.

About this task

In silent mode, the installer does not prompt for inputs during installation but reads the inputs from a response file. By default, the installer uses the `TIBCOUniversalInstaller-product_3.2.0.silent` file, which is included in the directory that contains the universal installer.

You can customize the silent installer as follows:

- Make a backup copy of the `TIBCOUniversalInstaller-product_3.2.0.silent` file and edit the file itself. You can then run the silent installer with or without the response file argument.
- Make a copy of the `TIBCOUniversalInstaller-product_3.2.0.silent` file and name the copy. You can then run the silent installer, passing in your custom response file.

Procedure

1. Make a copy of the `TIBCOUniversalInstaller.silent` file and name the file, for example, *myfilename.silent*.
2. Using a text editor, open the copied file and update the installation location and features to install.
3. Run the silent installer with or without the optional response file.
 - **Windows:** `TIBCOUniversalInstaller.cmd -silent [-V responseFile="myfile.silent"]`
 - **UNIX:** `TIBCOUniversalInstaller.bin -silent [-V responseFile='myfile.silent']`

What to do next

After you exit the installer, you perform post-installation tasks and configuration. You can run TIBCO Configuration Tool in GUI mode, console mode, or silent mode.

1. Continue with [Post-Installation Tasks](#) on page 27.
2. Run TIBCO Configuration Tool. See [Configuration Tool Wizards and Screens](#).

Chapter

4

Post-Installation Tasks

You must perform certain post-installation tasks before you can create and configure runtime objects such as Administrator.

Topics

- [Troubleshooting Installation](#)
- [Uninstalling](#)

Troubleshooting Installation

If you encounter problems with installation, make sure that your system meets all prerequisites. Next, check the installer log file for potential problems.

Installer Log File

The installer log file, `tibco_universal_installer.timestamp.username_installer.log` is available in the following locations.

- Windows - Documents and Settings*username*\.TIBCO\install_*timestamp*
- Linux - *user_home_dir*\.TIBCO\install_*timestamp*

The installer log file captures the following information:

- Installation home details such as user that invoked the installer, hostname, Java home in the installation home, operating system details, and so on
- List of assemblies installed
- Information related to the Ant scripts that are executed by the installer

To change the location of the installer log file, specify the option `-V LogFile="myLogFile"` when you run the installer.

TIBCO_JRE Error Message During Upgrade

Problem

When you perform an upgrade, the installer sometimes displays an error that states TIBCO_JRE files are locked, even if JRE is not running and the installer is not using TIBCO_JRE.

Workaround

Reboot the system on which the installer is running.

Uninstalling

You can uninstall the product by running the Universal Installer. The installation manager allows you to uninstall all products in the *TIBCO_HOME* folder or choose the products to uninstall.

Before you begin

If you want to uninstall the Implementation Type for TIBCO Adapters product, follow these steps before you uninstall the product.

1. Undeploy the Implementation Type for TIBCO Adapters plug-in from the Administrator server. See the *TIBCO ActiveMatrix ServiceGrid Administration* documentation.
2. Delete the Implementation Type for TIBCO Adapters plug-in.

You can then run the installer to uninstall the product.

Procedure

1. Stop TIBCO Host instance processes, node processes, and TIBCO Business Studio.
2. Run the uninstaller.
 - a) In *TIBCO_HOME/tools/universal_installer/*, run *TIBCOUniversalInstaller*.
 - b) In the TIBCO Installation Manager, select **Uninstall Products from Selected TIBCO Home Location**, click **Next**, and click **Next** on the Welcome screen.
 - c) Choose an uninstall option and click **Next**:
 - **Custom Uninstall** - Allows you to choose the products to uninstall.
 - **Typical Uninstall** - Uninstalls all the products in the *TIBCO_HOME* folder.
 - d) If you selected Custom Uninstall, click the checkboxes next to the products to uninstall and click **Uninstall**.
 - e) Review the products and click **Uninstall**.
 - f) When prompted about clean up of the */tools* directory, click **Yes, clean it up**.
 - g) Click **Finish** in the summary screen to exit the uninstall wizard.
3. If you have uninstalled all the software under *TIBCO_HOME*, delete the directories in the *TIBCO_HOME* and *CONFIG_HOME* directories.

Chapter

5

Configuration

Configuration involves specifying the properties of ActiveMatrix Administrator servers and TIBCO Host instances and installing third-party drivers into ActiveMatrix Administrator servers.

Topics

- [Configure TIBCO Hawk Agent](#)

Configure TIBCO Hawk Agent

If you are installing the Implementation Type for TIBCO Adapters Runtime Host component on a machine on which a TIBCO ActiveMatrix Adapter product has been installed, TIBCO Configuration Tool allows you to configure the TIBCO Hawk Agent for Implementation Type for TIBCO Adapters.



For information about running TIBCO Configuration Tool, see the documentation for your ActiveMatrix product.

TIBCO Hawk Agent Configuration Welcome

Click **Next** on the Welcome screen to begin configuration.

TIBCO ActiveMatrix Enterprise Details

The TIBCO ActiveMatrix Enterprise Details screen displays the enterprise name that TIBCO Implementation Type for TIBCO Adapters will use.



Do not change this value.

TIBCO Hawk Configuration Summary

The Summary screen allows you to set the folder to be used for session scripts and log folders. By default, check boxes that perform the following actions are checked.

- **Configure TIBCO Hawk Agent** - Configures the TIBCO Hawk Agent included with the TIBCO Implementation Type for TIBCO Adapters runtime installation.
- **Start TIBCO Hawk Agent** - Starts the TIBCO Hawk Agent that is included with the TIBCO Implementation Type for TIBCO Adapters runtime installation. If you do not configure the agent, you cannot start it.
- **Start TIBCO Hawk Management Agent** - Starts the TIBCO Hawk Management Agent associated with the TIBCO Hawk Agent. If you do not configure and start the TIBCO Hawk Agent, you cannot configure and start the TIBCO Hawk Management Agent.