

TIBCO® API Exchange Manager

Installation

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Two-Second Advantage®



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Preface

TIBCO® API Exchange enables the building of API marketplaces, where service providers and consumers come together to create, host, manage, learn about, and use open APIs.

Topics

- [Related Documentation, page vi](#)
- [Typographical Conventions, page viii](#)
- [Connecting with TIBCO Resources, page x](#)

Related Documentation

This section lists documentation resources you might find useful.

TIBCO® API Exchange Documentation

The TIBCO API Exchange Documentation contains:

- *TIBCO API Exchange Concepts*. Read this document to get an overview of TIBCO API Exchange concepts, workflow, and deployment.
- *TIBCO API Exchange Getting Started*. Provides an overview of the tasks required to install, configure, and deploy TIBCO API Exchange.

These documents are included as part of the TIBCO API Exchange Manager documentation.

TIBCO® API Exchange Gateway Documentation

The following documents form the TIBCO API Exchange Gateway documentation set:

- *TIBCO API Exchange Gateway Installation*. Read this manual for instructions on site preparation and installation.
- *TIBCO API Exchange Gateway User's Guide*. Read this manual for instructions on how to configure and use this product.
- *TIBCO API Exchange Gateway 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.

TIBCO® API Exchange Manager Documentation

- *TIBCO API Exchange Manager Installation*. Read this manual for instructions on site preparation and installation.
- *TIBCO API Exchange Manager Administration*. Read this manual for information on how to set up users and user groups, add APIs, and manage products and plans.
- *TIBCO API Exchange Manager 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 Documentation

You might find it useful to read the documentation for the following:

- Joomla! - See <http://docs.joomla.org>.
- Example project hosted on GitHub: *Adapter Code for TIBCO API Exchange and Joomla!*. See <https://github.com/API-Exchange/JoomlaAdapter/wiki>.




Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<code>ENV_NAME</code> <code>TIBCO_HOME</code> <code>ASG_HOME</code> <code>ASG_CONFIG_HOME</code>	<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.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none">• Name Identifies the installation environment. This name is referenced in documentation as <code>ENV_NAME</code>. On Microsoft Windows, 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.• Path The folder into which the product is installed. This folder is referenced in documentation as <code>TIBCO_HOME</code>. <p>TIBCO API Exchange installs into a directory within a <code>TIBCO_HOME</code>. This directory is referenced in documentation as <code>ASG_HOME</code>. The default value of <code>ASG_HOME</code> depends on the operating system. For example on linux platform, the value of <code>ASG_HOME</code> is <code>/home/asg/tibcoasg/asg/2.1</code>.</p> <p>TIBCO API Exchange stores the configuration files in a directory which is separate from the installation directory. This directory is referenced in documentation as <code>ASG_CONFIG_HOME</code>. For example on linux platform, the value of <code>ASG_CONFIG_HOME</code> is: <code>/home/asg/tibcoasgconfig/tibco/cfgmgmt</code>.</p>
<code>code font</code>	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> 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, <code>MyCommand</code> is enabled: <code>MyCommand [enable disable]</code>

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
<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: <code>MyCommand <i>PathName</i></code>
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.

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

You can access TIBCO 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 user name and password. If you do not have a user name, you can request one.

Chapter 1 **Introduction**

This chapter provides important information about installation modes and software requirements.

Topics

- [Installation Overview, page 2](#)
- [Installation Requirements, page 4](#)
- [TIBCO API Exchange Manager Software Requirements, page 6](#)

Installation Overview

This section gives an overview of the TIBCO Universal Installer.

Installation Modes

Three installation modes are available: GUI, console, and silent.

GUI Mode

In GUI mode, you can use the installer panels to make choices about product selection, product location, and so on. To invoke the installer in GUI mode, double-click the executable.

Console Mode

In console mode, you can run the installer from the command prompt or terminal window. This is useful if your machine does not have a GUI environment.

Silent Mode

Silent mode installs the product using either default or custom settings that are saved in a response file. Silent mode installs the product without prompting you for information.

Installation Types

Two installation types are available: Profile or Custom.

- The Profile installation type installs all the software for a specific profile.
- The Custom installation type allows you to select components.

Installer Account

Any user can install this product.

- Regular (non-root) user
- Super-user (root).

When installing this product on UNIX platforms, ensure that the same installer account is used to install all TIBCO products.

Windowing Environment

A windowing environment such as CDE (for example, Windows) is required to run the installer in GUI mode. It is not required for a console installation or a silent installation.

Permissions

The user performing the installation must have read, write, and execute permissions on all the files and directories, after the compressed file is unpacked. The file structure after unpacking must be identical to the structure before packing.

Installer Log File

The installer log file, `tibco_universal_installer.username_install.log`, is written to the `.TIBCO/install_timestamp` folder of the user's home directory. To change the location of the installer log file, specify the option `-v logFile="myLogFile"` when you run the installer.

The installer log file captures the following information:

- Installation environment details, such as the user that invoked the installer, host name, Java home in the environment, operating system details, and so on.
- List of assemblies installed.
- Information related to the ant scripts that are executed by the installer.

Installation Requirements

This section describes disk space requirements, system memory requirements, software requirements by the installer, and supported platforms for this product.

Installer Prerequisites

The installer requires TIBCO Rendezvous® to be installed in the same *TIBCO_HOME*. Refer to the readme file for the minimum product version requirements.

Guidelines for TIBCO API Exchange Manager Installation



- Install TIBCO Rendezvous before you install TIBCO API Exchange Manager software. The installer requires TIBCO Rendezvous to be installed in the same *TIBCO_HOME*.
- Install the TIBCO API Exchange Gateway component of TIBCO API Exchange before you install TIBCO API Exchange Manager.
- Do not install TIBCO API Exchange Manager software in the same *TIBCO_HOME* where the TIBCO BusinessEvents® or TIBCO ActiveSpaces® products are installed.
- Do not install TIBCO API Exchange Manager 64-bit software in the same *TIBCO_HOME* where 32-bit TIBCO applications are installed. It is recommended to install TIBCO API Exchange Manager in a separate *TIBCO_HOME* to keep this software installation separate from the installation of 32-bit software.

Disk Space Requirements for the Installer

Before installing this product, extract the contents of the installation archive to a temporary directory. The installer files consume up to approximately 600 MB of disk space.

Temporary Disk Space Required by the Installer

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

On Linux, the installer requires at least 50 MB of free space in the temporary directory (/tmp).

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:

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

where */new_tmp* has sufficient free disk space.

Disk Space Requirement in Product Home Directory

The installer calculates the disk space required in the product home location for the selected components. The calculation is done before the actual installation (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.

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

Disk Space After Installation

On Linux platforms, this product can consume 600 MB of free space under *TIBCO_HOME*.

System Memory Requirements for the Installer

A minimum of 2 GB of physical memory is required.

Supported Platforms

Refer to the readme file for the supported platforms and versions and required patches.

TIBCO API Exchange Manager Software Requirements

Depending on the tasks you perform, you must install one or more other TIBCO products. [Table 3](#) describes the required and optional software products and their purpose.

Table 2 TIBCO API Exchange Manager Software Requirements

Software	Description
TIBCO Software The software products below are distributed and installed separately from this product. See the readme file for the supported versions.	
TIBCO API Exchange Gateway	Required. You must install the TIBCO API Exchange Gateway component of TIBCO API Exchange on a specified host before you install the TIBCO API Exchange Manager component.
TIBCO Rendezvous	Required. TIBCO Rendezvous is used as a message transport.
TIBCO ActiveMatrix Spotfire	Optional. Used for operational and analytical reporting.
Third-party Software See the readme file for the supported versions.	
Apache HTTP Server	Required. Refer to the TIBCO API Exchange Manager readme file for the supported versions.
Java Virtual Machine	Required. JRE 1.6.0 is packaged with TIBCO API Exchange Gateway as a convenience.
Additional Required Software	See the <i>TIBCO API Exchange Gateway Installation</i> document for details.

Chapter 2 **Installing TIBCO API Exchange Manager**

This chapter explains how to install and uninstall this product.

Topics

- [Installation Guidelines, page 8](#)
- [Installing Software, page 10](#)
- [Verifying the Installation, page 14](#)
- [Uninstalling Software, page 17](#)

Installation Guidelines

The sections below provide guidelines for installing on Windows and UNIX platforms.

Windows Installation Guidelines

Installer Account

You must have administrator privileges for the machine on which the software 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.

Installing from a Network Drive

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

Installing on Windows 2000 Terminal Server

There are two modes in the terminal server, Execute and Install. By default all users are logged on in Execute mode, which allows them to run the applications. When you want to install the software for use by everyone, the Administrator should switch to Install mode.

The best way to install the software on Windows 2000 Terminal Server is to use the Add/Remove Programs control panel applet, because this automatically sets the mode to Install during the installation and then back to Execute at the end.

Alternatively, you can:

1. Manually change your mode to Install by entering:

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

2. Change back to execute by entering:

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

You can check your current mode by entering:

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

If you install in Execute mode, the installation registry is maintained in your user home directory. If you install in Install mode, the installation registry is maintained in the %SystemRoot% folder.

UNIX Installation Guidelines

Installer Account

The software can be installed by a regular (non-root) user or a super-user (root). Different users can install the same product at different locations.

Permissions

The user performing the installation must have read, write, and execute permissions on all files and directories, after the file is unpacked. The file structure after unpacking must be identical to the structure that was packed.

Installing Software

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

- [GUI Mode, page 10](#)
- [Console Mode, page 11](#)
- [Silent Mode, page 11](#)

Before You Install TIBCO API Exchange Manager

Before you install the TIBCO API Exchange Manager, install the TIBCO API Exchange Gateway component on the same host.

If you have not installed the API Exchange Gateway, the installer displays a message indicating that the installation failed a dependency check, and then exits.

GUI Mode

To install this product in GUI mode:

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Navigate to the temporary directory.
4. Run the TIBCO Universal Installer executable (**TIBCOUniversalInstaller***). You can do so in one of the following ways:

- Double-click the installer executable file.
- On the command prompt, run the installer executable **TIBCOUniversalInstaller*** file on without specifying any options. The installer defaults to GUI mode.

For example,

On the Windows 64-bit platform, run the following installer executable file:
TIBCOUniversalInstaller-x86-64.exe

On the Linux platform, run the installer as follows:
./TIBCOUniversalInstaller-lnx-x86-64.bin

5. Click **Next** on the Welcome dialog.

6. Read through the license text when the License Agreement dialog appears, select the **I Accept The Terms of The License Agreement** radio button and then click **Next**.

7. Click **Next**. The TIBCO Installation Home dialog displays.

An installation environment isolates product installations. A product installed into an installation environment does not access components in other installation environments. An installation environment consists of a name and path. You can choose a new environment or an existing environment.

- **Create A New** *TIBCO_HOME* This option is used to install the product into a new installation environment. Do not use this option as this product requires an existing TIBCO Rendezvous installation.
- **Use an Existing** *TIBCO_HOME* Select this radio button, and select the directory from the drop-down list where TIBCO Rendezvous product is installed. The TIBCO API Exchange Gateway product is installed in this directory.

8. Click **Next**.

9. Select **Typical** as the installation profile from the list on the left. This is the default option. This profile installs the typical feature set for this product.



TIBCO Universal Installer allows customization of the profile feature settings. For this option, select the **Customize Installation** check box and use the feature tree on the right.

10. Click **Next**.
11. Verify the list of components selected for installation.
12. Click **Next**.
13. Review the Installation Environment Details in the Pre-Install Summary dialog.
14. Click **Install** to start the installation process.
15. Review the information listed in the Post-Install Summary dialog.
16. Click **Finish** to complete the installation process and exit the universal installer.

Console Mode

To install this product in console mode follow these steps:

1. Open the physical media or download the package.

2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory that contains the universal installer.
4. Run the TIBCO Universal Installer executable (**TIBCOUniversalInstaller***) using this command line:
TIBCOUniversalInstaller -console
 For example,
 On the Windows 64-bit platform, run the installer as below:
TIBCOUniversalInstaller-x86-64.exe -console
 On the Linux platform, type the following command:
./TIBCOUniversalInstaller-lnx-x86-64.bin -console
5. Complete the installation by responding to the console window prompts.

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. If no value is specified, the installer uses the default `TIBCOUniversalInstaller-asg.silent` file.

The `TIBCOUniversalInstaller-asg.silent` file is packaged in the directory that contains the universal installer. 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-asg.silent` file, it is good practice to copy the file to a different name and use that file for the silent install.

If errors occur during installation, they will be listed in the installation log file located in the `User_Home/.TIBCO` directory.

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller-asg.silent` file and rename the file.

5. Using a text editor, open the copied file and update the install location, *ENV_NAME*, and features to install as follows:
 - Update the install location. This indicates the directory where the product is to be installed. For example, update the directory as follows:


```
<entry key="installationRoot">/home/asg/tibcoasg</entry>
```
 - Update *ENV_NAME*.

For example, update *ENV_NAME* as follows:

```
<entry key="createNewEnvironment">false</entry>
<entry key="environmentName">TIBCO_HOME</entry>
```
 - Update TIBCO Configuration Directory. This directory is used to store the configuration information.

For example, update **configDirectoryRoot** as follows:

```
<entry key="configDirectoryRoot">/home/user/tibco</entry>
```



If TIBCO API Exchange Manager is installed in a directory that has a config directory already set by another TIBCO product (for example, TIBCO Enterprise Message Service™), it is not required to set the **configDirectoryRoot** in the silent file. In this case, the silent installer uses the value of **configDirectoryRoot** as already set and ignores the value if set in the silent file.

- Update features to install. Set the features that you want to install to `true`.
6. Run TIBCO Universal Installer (**TIBCOUniversalInstaller***) using the following command, replacing *myfile* with your response file name:


```
TIBCOUniversalInstaller -silent -V responseFile="myfile.silent"
```

For example,

On the Windows 64-bit platform, run the installer as follows:

```
./TIBCOUniversalInstaller-x86-64.exe -silent -V  
responseFile="myfilename.silent"
```

On the Linux platform, type the command as follows:

```
./TIBCOUniversalInstaller-lnx-x86-64.bin -silent -V  
responseFile="myfilename.silent"
```

Verifying the Installation

This section explains the ways to verify the TIBCO API Exchange Manager installation.

Checking the Installer Log File

Check the *tibco_universal_installer.userid_install.log* and *antTask_log_post-install_yyyy-mm-dd.timestamp.log* files which are located in the *TIBCO/install_timestamp* folder of the user's home directory performing the installation.

For example, on the Windows platform, the *tibco_universal_installer.userid_install.log* and *antTask_log_post-install_yyyy-mm-dd.timestamp.log* files are located in the *C:\Users\userid\.TIBCO* directory.

Errors in this file, or the existence of error files under this folder, indicates installation problems. Error files have the following format:

antTask_ERROR_log_post-install_mm-dd-yyy.n.log

Checking TIBCO API Exchange Gateway Server Status

This section describes the steps to check the status of TIBCO API Exchange Manager server instance by invoking a simple ping operation. This includes configuring and running the Apache HTTP server, configuring EMS Server (optional) followed by running TIBCO API Exchange Manager Server.

Run Apache HTTP Server

The Apache HTTP server is installed as part of the TIBCO API Exchange Gateway installation. For information on installing the Apache HTTP server, see Appendix A of the TIBCO API Exchange Gateway Installation document.

To run the Apache HTTP Server:

On the Windows Platform

To run the Apache HTTP server on the Windows platform, follow these steps:

1. Navigate to the directory:

APACHE_HOME/bin

2. Enter the following command to run Apache HTTP server:

```
httpd.exe
```

On Unix Platforms

1. Navigate to the directory:
`APACHE_HOME/bin`
2. Run the command to run Apache HTTP server:
`./apachectl start`

Run TIBCO API Exchange Gateway Server

To run the API Exchange Gateway engine, follow these steps:

On Windows Platform

1. Open a command prompt window.
2. Navigate to the API Exchange Gateway installation as shown below:
`cd ASG_HOME/bin`
3. Enter the following command to start the gateway core engine:
asg-engine

On Unix Platforms

1. Open a command prompt window.
2. Navigate to the TIBCO API Exchange Manager installation as below:
`cd ASG_HOME/bin`
3. Enter the following command to start the gateway core engine:
`./asg-engine`



If you see any errors while starting the TIBCO API Exchange Manager server, make sure that you have completed the steps listed in the “Set System Environment Variables” sections: of the *TIBCO API Exchange Gateway Installation* document.

4. Verify that TIBCO API Exchange Manager server started successfully.

5. Open a web browser and enter:

```
http://hostname:port/ping
```



hostname is the machine on which Apache HTTP server runs and *port* is the listening port for Apache HTTP Server as configured in *APACHE_HOME/conf/httpd.conf* file.

6. Verify that the following message is displayed in the browser window:

```
ASG is alive
```

Run TIBCO API Exchange Manager

1. Open a command prompt window.
2. Navigate to the TIBCO API Exchange Manager installation as below:

```
cd ASG_HOME/bin
```

3. Enter the following command to start the TIBCO API Exchange Manager portal engine:

```
./asg-portal-engine
```



To verify that the portal engine is running, bring up a Developer Portal and verify that the API Explorer is available. For more information, see the *Adapter Code for TIBCO® API Exchange and Joomla! 2.1.1 Installation* document.

If you see any errors while starting the TIBCO API Exchange Manager server, make sure that you have completed the steps listed in the “Set System Variables” section of the *TIBCO API Exchange Gateway Installation* document.

Uninstalling Software

This section describes how to uninstall this product in GUI mode and in console mode.

GUI Mode

To uninstall this product:

1. Shut down all running TIBCO applications.
2. Navigate to *TIBCO_HOME/tools/universal_installer* directory and run the TIBCOUniversalInstaller executable (**TIBCOUniversalInstaller***).

For example,

On the Windows 64-bit platform, run the following installer executable:

TIBCOUniversalInstaller-x86-64.exe

On the Linux platform, run the installer executable as below:

./TIBCOUniversalInstaller-lnx-x86-64.bin

3. On the TIBCO Installation Manager page, perform the following steps:
 - Select the **Uninstall Products From Selected TIBCO Home Location** radio button.
 - Select the *TIBCO_HOME* location from the TIBCO Home Location drop-down list.
4. Click **Next**.
5. Verify that the Welcome dialog appears, then click **Next**.
6. Choose an uninstallation option. The wizard provides two uninstallation options:
 - **Custom Uninstall** You can select the products to be removed.
 - **Typical Uninstall** The universal uninstaller removes all the products in this *TIBCO_HOME*.
7. Click **Next**. If you selected **Custom Uninstall**, select the check boxes for products to uninstall under the list of **Products Available for Uninstall**, and then click **Next**.
8. Review the Pre-Install Summary and click **Uninstall** to start the uninstallation process.
9. Review the Post-Install Summary and click **Finish** to exit the uninstall wizard.

10. Verify that there are no errors in the **tibco_universal_installer.asg_uninstall.log** file, which is located in *.TIBCO/maintenance_<date.time_stamp>* directory under the home directory of the user performing the un-installation:

Console Mode

To uninstall this product in console mode, follow these steps:

1. Using a command window, navigate to the directory:
`TIBCO_HOME\tools\universal_installer`
2. Run TIBCOUniversalInstaller executable (**TIBCOUniversalInstaller***) with the console option.

For example,

On the Windows 64-bit platform, type the following command at the command prompt:

```
TIBCOUniversalInstaller-x86-64.exe -console
```

On the Linux platform, type the following command at the command prompt:

```
./TIBCOUniversalInstaller-lnx-x86-64.bin -console
```

3. Complete the uninstallation by responding to the console window prompts.

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