

TIBCO® API Exchange Manager Installation

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TIBCO Documentation and Support Services

Documentation for this and other TIBCO products is available on the TIBCO Documentation site. This site is updated more frequently than any documentation that might be included with the product. To ensure that you are accessing the latest available help topics, please visit:

<https://docs.tibco.com>

Product-Specific Documentation

Documentation for TIBCO products is not bundled with the software. Instead, it is available on the TIBCO Documentation site. To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/asg/2.3/doc/manager/index.html`

where `TIBCO_HOME` is the top-level directory in which TIBCO products are installed. On Windows, the default `TIBCO_HOME` is `C:\tibco`. On UNIX systems, the default `TIBCO_HOME` is `/opt/tibco`.

The following documents for this product can be found on the TIBCO Documentation site:

- *TIBCO API Exchange Manager Installation*
- *TIBCO API Exchange Manager Administration*
- *TIBCO API Exchange Manager Release Notes*
- *TIBCO API Exchange Concepts*
- *TIBCO API Exchange Getting Started*

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, contact TIBCO Support:

- 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.

How to Join TIBCOmmunity

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<https://www.tibcommunity.com>

Introduction

This guide provides an overview of the different installation modes, installation requirements and specific requirements for TIBCO® API Exchange Manager.

Installation Overview

TIBCO Universal Installer has different installation modes.

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

In silent mode, the product is installed 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.

- By using profile installation, you can install all the software for a specific profile.
- By using custom installation, you can select components.

Installer Account

Two types of users 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 `tibco_universal_installer.username_install.log` installer log file, is written to the `.TIBCO/install_timestamp` directory.

Changing the Location of the Installer Log File

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

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

- Microsoft Windows: `C:\Users\username\.TIBCO\install_timestamp`
- Linux: `user_home_dir/.TIBCO/install_timestamp`

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.

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

Installation Requirements

It is best practice to ensure that the appropriate disk space requirements, system memory requirements, software requirements by the installer are met. For best results, check the supported platform requirements for this product.

Installing Prerequisites

Install TIBCO Rendezvous® in the same `TIBCO_HOME`.

Refer to the readme file for the minimum product version requirements: <http://docs.tibco.com>.

Guidelines for TIBCO API Exchange Manager Installation

All documentation for the required software needed to successfully run TIBCO API Exchange Manager can be found at: <http://docs.tibco.com>.



- 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 best practice 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

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, run the installer with a different temporary directory.

Starting the Installer

Procedure

1. Extract the contents of the installation archive to a temporary directory.
2. You can start the installer by entering the following command:

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

where /new_temp has sufficient free disk space.

Result

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 proceeds 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 might fail, and then gives a failure message.

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

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. The following table describes the required and optional software products and their purpose.

Figure 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. http://docs.tibco.com
TIBCO Rendezvous	Required. TIBCO Rendezvous is used as a message transport. http://docs.tibco.com
TIBCO ActiveMatrix Spotfire® Enabler	Operational and analytical reporting. http://docs.tibco.com
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. http://docs.tibco.com
Java Virtual Machine	Required. JRE 1.6.0 is packaged with TIBCO API Exchange Gateway as a convenience. http://docs.tibco.com
Additional Required Software	See the <i>TIBCO API Exchange Gateway Installation</i> document for details. http://docs.tibco.com

Installing TIBCO API Exchange Manager

Follow these installation guidelines for the software and verify the installation. Instructions on uninstalling the software are also available.

Installation Guidelines

Installation for Windows and UNIX platforms are both supported.

Windows Installation Guidelines

Read the following guidelines before you install TIBCO API Exchange Manager on Windows platform:

- [Installer Account](#)
- [Network Drive](#)
- [Windows 2000 Terminal Server](#)
- [Installing on Windows 2000 Terminal Server](#)

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.

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.

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.

For best results 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.

Installing on Windows 2000 Terminal Server

You have the option to install the software for use by everyone.

Procedure

1. Manually change your mode to Install by entering the following text:

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

2. Change back to execute by entering the following text:

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

Result

You can check your current mode by entering the following text:

```
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

Read the following guidelines before you install TIBCO API Exchange Manager on Unix platform:

- [Installer Account](#)
- [Permissions](#)

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

You can install the software in GUI mode, console mode or silent mode.

Before Installing 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.

Installing in GUI Mode

In GUI mode, the installer prompts you for information regarding the installation environment, installation profile, and other installation information.

Procedure

1. Open the physical media or download the package from the TIBCO eDelivery site(<https://edelivery.tibco.com/>).
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the contents of the package to a temporary directory.
3. Use the extracted installation package to start the installation in one of the following ways:
 - On Microsoft Windows, double-click TIBCOUniversalInstaller-x86-64.exe.
 - On Linux, run TIBCOUniversalInstaller-lnx-x86-64.bin.
4. Click **Next** in the Welcome dialog.
5. Read through the license text when the License Agreement dialog appears, select **I Accept The Terms of The License Agreement**, and then click **Next**.
6. Click **Next**. The TIBCO Installation Home dialog is displayed.

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. Click **Next** after you choose an 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.

7. 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 and click **Next**.



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.

8. In the Pre-Install Summary dialog, review the list of products selected for the installation. Click **Install**.
9. In the Post Install Summary dialog, review the list of the installation information. Click **Finish** to complete the installation process and exit the installer.

Installing in Console Mode

In console mode, you can run the installer on a command line.

Procedure

1. Open the physical media or download the package from the TIBCO eDelivery site(<https://edelivery.tibco.com/>).
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the contents of the package to a temporary directory.
3. On a command line, navigate to the temporary directory to which you extracted the installation package.
4. Run the following command to start the installation:
 - On Microsoft Windows: `TIBCOUniversalInstaller-x86-64.cmd -console`
 - On Linux: `./TIBCOUniversalInstaller-lnx-x86-64.bin -console`
5. Respond to the messages on the command line .
The installation options are the same as in GUI mode. See [Installing in GUI Mode](#) for more details.
6. When the installation is completed, press Enter to exit the installer.

Installing in Silent Mode

In silent mode, you can run the installer without user input by pointing the installer to an existing response file.

A default response file named `TIBCOUniversalInstaller-asg.silent` is packaged with TIBCO Universal Installer. Before launching the silent installation, you have to edit the response file with information about your environment. It is good practice is to make a copy of the default response file, then edit that file and use it for the installation.

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.

Fixing Errors During Silent Installation

You might experience errors while installing in silent mode.

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

Procedure

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=.silent
```

Verifying the Installation

To ensure that TIBCO API Exchange Manager has successfully installed, verify the installation.

Checking the Installer Log File

Ensure the software has been successfully installed by 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

Check the status of TIBCO API Exchange Manager server instance by invoking a simple ping operation. This involves configuring and running the Apache HTTP server, configuring EMS server (optional) and running TIBCO API Exchange Manager Server.

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.

Running Apache HTTP Server on Windows Platforms

Apache HTTP Server can be run on Windows Platforms.

Procedure

1. Navigate to the directory:
`APACHE_HOME/bin`
2. Enter the following command to run Apache HTTP server:
`httpd.exe`

Running Apache HTTP Server on Unix Platforms

Apache HTTP Server can be run on Unix Platforms.

Procedure

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

TIBCO API Exchange Gateway Server

You can run TIBCO API Exchange Gateway Server on both the Windows and Unix Platforms. Before you run the Gateway server, read the following topics:

- [Running the Gateway Server on Windows Platforms](#)
- [Running the Gateway Server on Unix Platforms](#)
- [Running TIBCO API Exchange Manager](#)

Running the Gateway Server on Windows Platforms

The Gateway Server can be run on Windows Platforms.

Procedure

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
```
4. Open a web browser and enter:

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

where *hostname* is the name or IP address of the machine on which Apache HTTP server runs and *port* is the listening port number for Apache HTTP Server as configured in *APACHE_HOME/conf/httpd.conf* file.
5. Verify that the following message is displayed in the browser window:

```
ASG is alive
```

Running the Gateway Server on Unix Platforms

The Gateway Server can be run on Unix Platforms.

Procedure

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:

```
./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” section in *TIBCO API Exchange Gateway Installation*.
4. Verify that TIBCO API Exchange Manager server started successfully.

```
cd ASG_HOME/bin
```
5. Open a web browser and enter:

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

where *hostname* is the name or IP address of the machine on which Apache HTTP server runs and *port* is the listening port number 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
```

Running TIBCO API Exchange Manager

TIBCO API Exchange Manager can be executed.

Procedure

1. Open a command prompt window.
2. Navigate to the TIBCO API Exchange Manager installation as below:
3. Enter the following command to start the TIBCO API Exchange Manager portal engine:

```
cd ASG_HOME/bin
```

```
./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: <http://docs.tibco.com>.



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: <http://docs.tibco.com>.

Software Uninstallation

You can uninstall this product in GUI mode and in console mode.

Uninstalling in GUI Mode

You can uninstall this product by running TIBCO universal installer, with which you can uninstall all products in *TIBCO_HOME* or select the products to uninstall. .

Procedure

1. Shut down all running TIBCO applications.
2. Navigate to *TIBCO_HOME*/tools/universal_installer directory.
3. Use one of the following ways to start the uninstallation:
 - On Microsoft Windows, double-click `TIBCOUniversalInstaller-x86-64.exe`.
 - On Linux, run `./TIBCOUniversalInstaller-lnx-x86-64.bin`.
4. On the TIBCO Installation Manager page, follow these steps:
 - Select **Uninstall Products From Selected TIBCO Home Location**.
 - Select the *TIBCO_HOME* location from the **TIBCO Home Location** list.
 - Click **Next**.
5. Verify that the Welcome dialog appears, and 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** : You cannot select the products. All the products in the selected *TIBCO_HOME* are removed.
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 who performs the uninstallation.

Uninstalling in Console Mode

If you are not working in a GUI environment, you can uninstall the software in the console mode.

Procedure

1. On a command line, navigate to the *TIBCO_HOME*/tools/universal_installer directory.
2. Run the following command to start the uninstallation:
 - Microsoft Windows: `TIBCOUniversalInstaller.cmd -console`
 - Linux: `./TIBCOUniversalInstaller-lnx-x86-64.bin -console`
3. Respond to the messages on the command line. The uninstallation process is the similar to [Uninstalling in GUI Mode](#).

4. When the uninstallation completes, press Enter to exit the installer.