

TIBCO Silver[®] Fabric Enabler for TIBCO[®] API Exchange Gateway

Installation

*Software Release 1.1
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Preface



This software is available for all operating systems supported by TIBCO Silver Fabric.

TIBCO Silver[®] Fabric Enabler for TIBCO[®] API Exchange Gateway is a complementary software component. It allows TIBCO ActiveMatrix BusinessWorks projects to be deployed in cloud environments based on TIBCO Silver Fabric and leverage Silver Fabric capabilities. This accelerates deployments of BusinessWorks projects, enforces its industry best practices, and provides elastic optimization of computing resources.

Topics

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

Related Documentation

This section lists documentation resources you may find useful.

It is assumed that you are very familiar with the installation, configuration, and use of TIBCO® API Exchange Gateway because you are seeking to scale this product using TIBCO Silver Fabric. The following resources will prove useful for this endeavor.

TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway Documentation

The following documents form the TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway documentation set:

- TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway *Installation* Read this manual for instructions on site preparation and installation.
- TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway *User's Guide* Read this manual for instructions on using the product.
- TIBCO Silver® Fabric Enabler for 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.

Other TIBCO Product Documentation

TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway empowers TIBCO Silver® Fabric private cloud infrastructure to run TIBCO® API Exchange Gateway.

You may find it useful to read documentations related to the following TIBCO products:

- TIBCO Silver® Fabric
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service™




Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i>	Many TIBCO products must be installed within the same home directory.
<i>ENV_HOME</i>	This directory is referenced in documentation as <i>TIBCO_HOME</i> . The default value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.
<i>SFAX_HOME</i>	
<i>SILVERFABRIC_HOME</i>	Other TIBCO products are installed into an <i>installation environment</i> . Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as <i>ENV_HOME</i> . The default value of <i>ENV_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.
	TIBCO Silver [®] Fabric Enabler for TIBCO [®] API Exchange Gateway is installed into a directory that is referenced in documentation as <i>SFAX_HOME</i> . The value of <i>SFAX_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco\sfax.
	TIBCO Silver Fabric is installed into a directory that is referenced in documentation as <i>SILVERFABRIC_HOME</i> . The value of <i>SILVERFABRIC_HOME</i> depends on the operating system. For example, on Windows systems, the default value can be C:\fabric.
code font	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use MyCommand to start the foo process.
bold code font	Bold code font is used in the following ways: <ul style="list-style-type: none"> • In procedures, to indicate what a user types. For example: Type admin. • In large code samples, to indicate the parts of the sample that are of particular interest. • In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: MyCommand [enable disable]

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 API Exchange Gateway 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 names 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>
	<p>The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.</p>
	<p>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.</p>
	<p>The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.</p>

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts, 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 All TIBCO Documentation

All TIBCO product documentation is available from <https://docs.tibco.com>

TIBCO Silver[®] Fabric Enabler for TIBCO[®] API Exchange Gateway documentation is here:

<https://docs.tibco.com/products/tibco-silver-fabric-enabler-for-tibco-api-exchange-gateway-1-1-0>

How to Contact TIBCO Support

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

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit this site:
<http://www.tibco.com/services/support>
- If you already have a valid maintenance or support contract, visit this site:
<https://support.tibco.com>

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

Chapter 1 **Introduction**

Installation modes, requirements, and other options that you should be aware of before starting the installation are here in this chapter.

Topics

- [Installation Overview, page 2](#)
- [Installation Requirements, page 4](#)

Installation Overview

This section gives an overview of the installation.

Installation Modes

Two installation modes are available: console mode, and silent mode. GUI mode installation is not available for this product release.

Console Mode

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

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

Installer Account

Linux/ Unix

Any user can install this product:

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

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

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

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 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 the disk space requirements, system memory requirements, software requirements, and supported platforms for this product.

Disk Space Requirements

Before installing this product, extract the contents of the installation archive to a temporary directory. The installer files consume up to 1.5 GB of disk space.

Temporary Disk Space Required by the Installer

The installer requires at least 2 GB of free space in the temporary directory. On Microsoft Windows, the temporary directory typically is:

```
%SystemDrive%:\Documents and Settings\user_name\Local Settings\Temp.
```

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

```
-is:tempdir /new_temp
```

where */new_temp* has sufficient free disk space.

The installer calculates the disk space required in the product home location for the selected components. 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

This product can consume 2 GB of free space under *SFAX_HOME*.

System Memory Requirements

A minimum of 2 GB of physical memory is required.

Supported Platforms

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

Required and Optional Products

Table 2 lists the required and optional software products.

Table 2 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 Silver [®] Fabric	Required. To use TIBCO Silver [®] Fabric Enabler for TIBCO [®] API Gateway Exchange, you must install TIBCO Silver Fabric and its latest patch. TIBCO Silver Fabric must also have TIBCO Silver Fabric Engines that must be installed as Cloud deployment endpoints.
TIBCO Rendezvous	Required for messaging between API Exchange Gateway Engines and components. The TIBCO Rendezvous (RV) distribution is packaged with: SilverFabric_tra_common_linux64_rollup_02-01-2013.zip TIBCO [®] API Exchange Gateway Distribution for TIBCO [®] Silver Fabric.
TIBCO Enterprise Message Service	Optional for messaging between API Exchange Gateway Engines and components.
Third-party Software See the readme file for the supported versions.	

Grid Libraries

Installation of the TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway consists of copying artifacts named Grid Libraries to the following TIBCO Silver Fabric broker directory:

`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`

For example, on a Linux platform, the default directory is:

`/opt/tibco/fabric/webapps/livecluster/deploy/resources/gridlib/`

The Grid Libraries can be divided into two groups:

- [Enablers](#)
- [Distributions](#)

Enablers

Enablers are made for use with TIBCO Silver Fabric and the Enablers for this product are made to configure and control how TIBCO® API Exchange Gateway will be deployed to a Silver Fabric Engine. Enablers are configured using the TIBCO Silver Fabric Administration Tool interface to specify settings, installation, configuration, and deployment logic for TIBCO® API Exchange Gateway running on TIBCO Silver® Fabric.



Enablers are supported wherever TIBCO Silver Fabric is installed. Enablers are not operating system dependent. The Silver Fabric broker detects the addition of any Grid Library container put in the proper directory .

TIBCO Silver Fabric uses the following TIBCO Silver Fabric Enabler for TIBCO API Exchange Gateway zip files:

- `SilverFabric_apix_componentType_1.1.0.zip`
- `SilverFabric_apix_container_1.1.0_gridlib.zip`

Distributions

Distributions are compressed native products that are obtained separately from the Enablers. Distributions must be downloaded separately from the specific product area of the download site. The TIBCO® API Exchange Gateway Distribution is in the TIBCO® API Exchange Gateway area of the TIBCO product download site.

Put Distributions, grid libraries, into the same Silver Fabric directory as the Enablers. Distributions are deployed to the Silver Fabric Engines according to the configurations set using the Enablers.

The TIBCO® API Gateway Exchange Distribution is used to deploy and run TIBCO® API Gateway Exchange on the Silver Fabric Engine. Different distributions are provided for different platforms.



Distributions are dependent on platforms. Different platforms have different distributions. For this Distribution product release Linux x86-64 is supported.

For each platform, the distribution for TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway includes the following five distributions:

- TIBCO API Exchange Gateway distribution
- TIBCO Rendezvous® distribution

Table 3 shows distributions provided for a Linux (x86-64) platform.

Table 3 Software Distributions

Distribution	Example Distribution File (On a Linux x86-64 platform)
TIBCO API Exchange Gateway distribution	TIB_SilverFabric_apix_2.1.0_0_linux26gl25_x86_64_distribution_g ridlib.zip
TIBCO Rendezvous distribution	TIB_SilverFabric_rv_8.4.2_0_linux26gl23_x86_64_distribution_gri dlib.zip This file can be found within the zipped archive of SilverFabric_tra_common_linux64_rollup_02-01-2013.zip. You can get this file from the TIBCO product download site from within the TIBCO BusinessEvents Distribution for TIBCO Silver Fabric Software 5.1.1 page.

Chapter 2 **Installation Steps**

This chapter explains how to install and uninstall TIBCO Silver Fabric Enabler for TIBCO API Exchange Gateway.



Pre-requisite:

To install TIBCO Silver Fabric Enabler for TIBCO API Exchange Gateway, you must have a TIBCO Silver[®] Fabric cloud environment.

Refer to the *TIBCO Silver Fabric* documentation for information on setting up that environment as a pre-requisite.

Topics

- [Installation, page 10](#)
- [Post-Installation, page 12](#)
- [Uninstallation, page 14](#)

Installation

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

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

Console Mode

To install this product in console mode:

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console shell or bash prompt, navigate to that temporary directory and run the following:
 - **TIBCOUniversalInstaller-lnx-x86-64.bin -console**
4. Complete the installation by responding to the console window prompts.



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* To install the product into a new installation environment, specify the following properties:

- **Environment Name** - Identifies the installation environment. The name cannot contain special characters such as "*", "?", ">", "<", ":", "|", "/", "\", or quotation marks("").

The name is appended to the name of services created by the installer and is a component of the path.

- **TIBCO Environment Home (*ENV_HOME*) Directory** - The directory location into which the product is extracted. Type a valid directory path to specify the where the product files will be placed.

The path cannot contain special characters such as "*", "#", "?", ">", "<", "%", "&", "\$", "\\", or "|". The path cannot be the same as the path of an existing environment.

Use an existing *TIBCO_HOME* To install the product into an existing installation environment, specify the environment.

5. Proceed to the [Post-Installation](#) page and move the Grid Libraries to the specified directory to complete the installation.



Installation is **not** complete until the Grid Libraries are copied to the directory: *SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/*

Refer to the section on [Post-Installation on page 12](#) for more information.



Distributions must be downloaded separately and placed according to the instructions in the section on [Post-Installation on page 12](#).

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.silent` file.

The `TIBCOUniversalInstaller.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.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.silent` file and rename the file.
5. Using a text editor, open the copied file and update the install location and features to install.
6. Run the following bin executable to install the TIBCO Silver Fabric Enabler for TIBCO API Exchange Gateway for a Linux x86-64 bit operating system:

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

Post-Installation

To avoid a server restart of the Broker, the Grid Libraries should be copied to the `SILVERFABRIC_HOME\webapps\livecluster\deploy\Resources\gridlib\` directory in the following order:



Grid Libraries should be copied in the following order:

- a. Distribution zip files
- b. SilverFabric_apix_componentType_1.1.0.zip
- c. SilverFabric_apix_container_1.1.0_gridlib.zip

These file name and version numbers are provided as a guide. Your file names and the versions of your files may vary depending on the currently available release.

Task A Get the Distribution ZIP archives

The distribution archives may be obtained from either the installation media or from the TIBCO official download site, <https://download.tibco.com>.

1. Download the TIBCO® API Exchange Gateway Distribution for TIBCO® Silver Fabric available from the TIBCO API Exchange Gateway section of the TIBCO official download site - <https://download.tibco.com>.

It will be named according to the current version release number and the supported operating system with a name like the following for TIBCO API Exchange Gateway distribution for Linux x86-64:

TIB_SilverFabric_apix_2.1.0_0_linux26gl25_x86_64_distribution_gridlib.zip

2. Download the TIBCO Rendezvous Distribution ZIP Archive

Messaging for the TIBCO API Exchange Gateway uses TIBCO Rendezvous.

Get the TIBCO Rendezvous Distribution for Linux x86-64 compatible with the platform used by the TIBCO® API Exchange Gateway Distribution for TIBCO® Silver Fabric:

TIB_SilverFabric_rv_8.4.2_0_linux26gl23_x86_64_distribution_gridlib.zip

You can get the TIBCO Rendezvous Distribution file from a TRA Rollup zip archive (also available from the TIBCO official download site - <https://download.tibco.com>), but make sure that the gridlib.zip files are

extracted from the rollup package and that the version is compatible. The file name should be the same as above or a more recent release.



Do **not** copy the platform archive file, the "rollup" file, directly to the directory:
`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`

3. Copy the distribution grid library archives to the directory:
`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`

Task B Copy the Container ZIP files

After installation the Grid Library Enabler files were extracted to the directory:
`ENV_HOME\sfax\1.0\gridlib`

Copy the container ZIP files from there to the following directory:

`SILVERFABRIC_HOME/opt/tibco/fabric/webapps/livecluster/deploy/resources/gridlib/`

Alternatively, the distribution files may be dropped into any directory accessible to Silver Fabric as long as it is specified for the Silver Fabric Administrator. Refer to the Silver Fabric documentation for more information on how you may set another location for the distribution files.

For detailed information about Grid Libraries, distributions, and Enablers, refer to [Grid Libraries on page 6](#).

Uninstallation

To uninstall this product, do the following two tasks:

- [Task A, Removing Grid Libraries, on page 14](#)
- [Task B, Uninstalling TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway, on page 14](#)

Task A Removing Grid Libraries

1. Shut down all running TIBCO® API Exchange Gateway applications.
2. Remove all `SilverFabric_*.zip` files from the following directory:
`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib`

Task B Uninstalling TIBCO Silver® Fabric Enabler for TIBCO® API Exchange Gateway

3. Navigate to the `TIBCO_HOME/tools/universal_installer/` directory and run **TIBCOUniversalInstaller** to open TIBCO Universal Installer.
4. In the TIBCO Installation Manager page, do the following steps:
 - Select the **Uninstall Products from Selected TIBCO Home Location** radio button.
 - Select the **TIBCO Home location** from the drop-down list.
5. Click the **Next** button. The Welcome page appears.
6. Click the **Next** button. Choose an uninstallation option in the Uninstallation Type page appears. Choose an uninstallation option. The following two uninstallation options are provided:
 - **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 the **Next** button. If you selected the **Custom Uninstall (Select the Products to be Removed)** radio button, select the checkboxes for products to uninstall, and then click the **Next** button.
8. Review the Pre-Uninstall Summary and click the **Uninstall** button to start the uninstallation process.

When uninstalling the products, a dialog appears asking if you want to clean up the `/tools` directory for this environment. Click the **Yes, Clean It up** button.

9. Review the Post-Uninstall Summary and click the **Finish** button to exit the uninstall wizard.

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