

TIBCO Silver[®] Fabric Enabler for TIBCO BusinessEvents[®] 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, visit:

<https://docs.tibco.com>

Product-Specific Documentation

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

- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® Installation*
- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® User's Guide*
- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® Release Notes*
- *TIBCO Silver® Fabric Enabler for TIBCO BusinessEvents® Developer's Guide*

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 TIBCO Community

TIBCO Community 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. TIBCO Community offers forums, blogs, and access to a variety of resources. To register, go to the following web address:

<https://community.tibco.com>

Installation Overview and Modes

This section gives an overview of the installation. You can use the GUI mode, console mode, and the silent mode for installation.

The following procedure form the basic steps for installation:

1. Download the installation package from <https://edelivery.tibco.com>.
2. Extract the files into a temporary folder.
3. Launch the Installer with GUI Mode, Console Mode or Silent Mode as described in the subsequent sections.
4. Get the compressed distribution and the enabler files. Refer to the section [Post Installation](#) for more details.

GUI Mode

In the GUI mode, the installer presents panels that you can use to make choices about product selection, product location, and so on. To invoke the installer in GUI mode, double-click the executable. For more information, refer to the section [GUI Mode](#).

Console Mode

With console mode, you run the installer from the command prompt, or from the terminal window. This is useful if your machine does not have a GUI environment. For more information, refer to the section [Console Mode](#).

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. For more information, refer to the section [Silent Mode](#).

Universal Installer Types

Two installation types are available with TIBCO universal installer.

The installation types are as follows:

Typical

Installs all the software for a specific profile

Custom

Selects components.

Select the **Customize Installation** check box to opt for Design and Runtime installation profiles.

Installer Accounts

Microsoft Windows

You must have administrator privileges for the machine, on which this product 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.

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.

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 Files

The installer log file, `tibco_universal_installer.timestamp.username_install.log` is written to the `.TIBCO/install_timestamp` folder of the user's home directory.

The installation log file is named `tibco_universal_installer.username_install.log`.

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 outlines the installation requirements 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.

Prerequisites

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 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 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 SFBE_HOME.

System Memory Requirements

A minimum of 2GB of physical memory is required.

Supported Platforms

Refer to the readme files for the supported platforms, bit type, and versions.

Prerequisite to Deploy a BusinessEvents Component with TIBCO Enterprise Administrator

A prerequisite to run a BusinessEvents component with TIBCO Enterprise Administrator is that Jython 2.7 distribution and Python 2.7 (or above) must be installed and jsonpickle module and requests module has to be installed on the python that is being used.

Some systems may have multiple python binaries installed. The environment variables such as PATH, must point to the correct python.

On Windows, the DataSynapse Engine service logged user and the Windows session user, must be same.

Required and Optional Products

The table lists the required and optional software products. The software products below are distributed and installed separately from this product.

Refer to the product readme to get the list of supported versions.

Software	Description
TIBCO Silver® Fabric	Required. To use TIBCO Silver Fabric Enabler for TIBCO BusinessEvents, you must install TIBCO Silver Fabric.
TIBCO Silver® Fabric Enabler for TIBCO Administrator™ - Enterprise Edition	Optional. You need this product if you want to create TIBCO Silver Fabric Enabler for TIBCO BusinessEvents component with BusinessEvents deployment with TIBCO Administrator mode. It creates a TIBCO Administrator component, TIBCO Domain, and start TIBCO Hawk® services and a TIBCO Administrator server.
TIBCO BusinessEvents® Distribution for TIBCO Silver® Fabric	Required. This distribution is published to the engine instances. You must download and install this product according to instructions in the TIBCO Silver® Fabric Installation Guide.
TIBCO Enterprise Message Service™ Or TIBCO Silver® Fabric Enabler for TIBCO Enterprise Message Service™	Optional. If your implementation uses TIBCO Enterprise Message Service (EMS) for the message transport to your database, TIBCO EMS and an associated database product must be installed separately. The configurations of TIBCO EMS product are defined in the TIBCO Enterprise Message Service product documentation.
TIBCO ActiveSpaces® Enterprise Edition Distribution for TIBCO Silver® Fabric	Optional. It is only required when you use TIBCO BusinessEvents distributions 5.2.2 and above.
TIBCO Silver® Fabric Enabler for TIBCO® Enterprise Administrator	Optional. You need this product if you want to create TIBCO Silver Fabric Enabler for TIBCO BusinessEvents component in deployment mode with TIBCO Enterprise Administrator.
Jython 2.7 (or above) distrubution	Required. It is a prerequisite to run BusinessEvents components with TIBCO Enterprise Administrator.

Grid Libraries

The TIBCO® Silver Fabric Enabler for TIBCO BusinessEvents 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 directory is:

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

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 BusinessEvents is published to a Silver Fabric engine. Enablers are configured using the TIBCO Silver Fabric Administration Tool interface to specify settings, installation, configuration, and publishing logic for TIBCO® Silver Fabric Enabler for TIBCO BusinessEvents .



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.

The following enabler files are installed into the *TIBCO_HOME*/*<enabler>*/*<version>*/gridlib directory. They must be copied to the TIBCO Silver Fabric gridlib directory.:

The following are the current versions of the enablers required:

- SilverFabric_be_componentType_3.3.0.zip
- SilverFabric_be_container_3.3.0_gridlib.zip

Distributions

Distributions are compressed native products that are obtained from a different part of the TIBCO download site than the enablers for TIBCO Silver Fabric. Distributions must be downloaded from the parent product area of the download site.

Distribution grid libraries are put into the same Silver Fabric directory as the enablers. Distributions are published to the Silver Fabric engines according to the configurations set using the enablers.



Distributions are dependent on platforms. Different platforms have different distributions.

For each platform, the TIBCO Silver Fabric Enabler for TIBCO BusinessEvents Distribution for TIBCO Silver Fabric includes the following distributions:

- TIBCO BusinessEvents® Distribution for TIBCO Silver® Fabric
- TIBCO ActiveSpaces® Enterprise Edition Distribution for TIBCO Silver® Fabric. TIBCO BusinessEvents® Distribution for TIBCO Silver® Fabric 5.2.2 and above need ActiveSpaces® Enterprise Edition distribution as the ActiveSpaces distribution is separated from the BusinessEvents distribution.
- TIBCO Enterprise Messaging Service™ Distribution (optional)

- TIBCO Rendezvous® distribution
- TIBCO Hawk® distribution
- TIBCO Runtime Agent™ distribution

Software Distributions for Linux (x86) 64-bit Platform

Distribution	Distribution File
TIBCO BusinessEvents Distribution for TIBCO Silver Fabric	TIB_SilverFabric_businessevents-standard_5.4.1_0_linux26gl25_x86_64_distribution_gridlib.zip
TIBCO ActiveSpaces® Enterprise Edition Distribution for TIBCO Silver® Fabric.	TIB_SilverFabric_activespaces_2.2.1_0_linux_x86_64_distribution_gridlib.zip
TIBCO Enterprise Messaging Service Distribution (optional)	TIB_SilverFabric_ems_8.2.0_0_linux_x86_64_distribution_gridlib.zip
TIBCO Rendezvous distribution	TIB_SilverFabric_rv_8.4.4_0_linux_x86_distribution_gridlib.zip
TIBCO Hawk distribution	TIB_SilverFabric_hawk_5.2.0_0_linux26gl23_x86_distribution_gridlib.zip
TIBCO Runtime Agent distribution	TIB_SilverFabric_tra_5.10.0_1_linux_x86_distribution_gridlib.zip
Jython 2.7	jython-2_7-gridlib.zip



If you want to run the same TIBCO Silver® Fabric Cloud with all supported platforms, you must copy all the distributions to the TIBCO Silver® Fabric Cloud.

Installation Steps

To run TIBCO Silver Fabric Enabler for , you must set up a TIBCO Silver® Fabric cloud environment. For detailed information, refer to the TIBCO Silver Fabric documentation.

Installation Overview

By using the installer, you can run in GUI, console, or silent modes. Each mode is supported on all platforms.

GUI Mode

The installer presents panels to select the product, the location of the product, and so on. Double-click `TIBCOUniversalInstaller.exe` to invoke the installer to use GUI mode. Refer section [GUI Mode](#) for more details.

Console Mode

You can run the installer from the command prompt or the terminal window. This option is useful, if your computer does not have a Microsoft Windows environment. Refer section [Console Mode](#) for more details.

Silent Mode

The installer installs the product without prompting you for information. Silent mode, installs using either default or custom settings that are saved in a response file. Refer section [Silent Mode](#) for more details.

Installing in GUI Mode

When you are running the installer in GUI mode, the installer prompts you for information regarding the installation environment, installation profile, and so on.

Procedure

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory. Navigate to the temporary directory.
3. Run **TIBCOUniversalInstaller** to open TIBCO Universal Installer. You can do so in one of the following ways:
 - Double-click the installer icon.
 - On the command prompt, provide the absolute path of the installer file without specifying any options. The installer defaults to GUI mode.

The Welcome page is displayed.

4. Click **Next** on the Welcome page.

The License Agreement page is displayed. Read through the license text and select the **I Accept the Terms of the License Agreement** radio button.

5. Click **Next** on the License Agreement page, the Installation Profile Selection page 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 a 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.

- **Directory:** the directory into which the product is installed. Type a path or click **Browse** to specify the path or accept the default location.
- **Name:** identifies the installation environment. The name cannot contain special characters such as "*", "?", ">", "<", ":", "|", "/", "\", spaces or quotation marks("")

The name 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.

Use an existing TIBCO_HOME. To install the product into an existing installation environment, select the environment from the drop-down list.

6. Click **Next** on the TIBCO Installation Home page and then click **Next** to accept the installation profile.
7. Verify the list of products selected for installation in the Pre-Install summary window. Click **Install**.
8. Verify your selection of the Environment Location and click **Install** to start the installation process.
9. Click **Finish** to complete the installation process and exit the universal installer.
10. Proceed to the Post-Installation page and place the grid libraries to the specified directory to complete the installation.

What to do next

Installation is not complete until the grid libraries are copied to the directory: `SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib`.

Distributions must also be downloaded separately and placed according to the instructions in the section [Post-Installation](#). Refer to the section on [Post-Installation](#) for more information.

Installing in Console Mode

If you are not working in a Microsoft Windows environment, you can install the software in the console mode.

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. Run the following:
 - **Windows** `TIBCOUniversalInstaller.cmd -console`
 - **Linux** `TIBCOUniversalInstaller-lnx-x86-64.bin -console`
5. Respond to the messages in the second console window.
The installer prompts for installation information and you can return to a previous selection periodically. The process is similar to [Installing in GUI Mode](#).
6. Complete the installation by responding to the console window prompts.

What to do next

Installation is not complete until the grid libraries are copied to the directory: `SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib`.

Distributions must also be downloaded separately and placed according to the instructions in the section [Post-Installation](#). Refer to the section on [Post-Installation](#) for more information.

Installing in Silent Mode

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

In the 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 a good practice to copy the file using a different name and use that file for the silent install.

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. Use a console window, and navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller.silent` file and rename the file.
5. Use a text editor to open the copied file and update the install location and features to install.
6. Run one of the following commands based on your operating system:

- **Windows:** `TIBCOUniversalInstaller.cmd -silent -V responseFile="myfilename.silent"`
- **Linux:** `TIBCOUniversalInstaller-lnx-x86-64.bin -silent -V responseFile="myfilename.silent"`
-
-

What to do next

Installation is not complete until the grid libraries are copied to the directory: `SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib`.

Distributions must also be downloaded separately and placed according to the instructions in the section [Post-Installation](#). Refer to the section on [Post-Installation](#) for more information.

Postinstallation Tasks

You must copy grid libraries to the `SILVERFABRIC_HOME\webapps\livecluster\deploy\Resources\gridlib` directory to avoid a server restart of the Broker.

The grid libraries must be copied in the following order:

1. Distribution .zip files.
2. `SilverFabric_be_componentType_<enabler version>.zip`.
3. `SilverFabric_be_container_<enabler version>_gridlib.zip`.

These file names and version numbers are provided as a guide. The file names and the versions of your files might vary depending on the currently available release. Post-installation tasks divide into two sub-tasks.

Getting the Distribution Compressed Files

The distribution archives may be obtained from either the installation media or from the official TIBCO download site, <https://download.tibco.com>. There are specific sets of distribution files for each operating system platform that will be used as a deployment target.

Procedure

1. Download the required platform specific zip archive.
Do not copy the platform archive file, the "rollup" file, directly to the `SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib` directory.
2. Without extracting the files, copy all of the distribution grid library archives to the directory:
`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`

Copying the Container Compressed Files

The second set of files to be copied are the container zip archives that are stored in the enabler home directory: `TIBCO_HOME/<enabler>/<version>/gridlib`.

Procedure

1. Copy the contents of `TIBCO_HOME/<enabler>/<version>/gridlib`.
2. Paste the container compressed files to `SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`.
For Silver Fabric running on a Unix or Linux - based platform, copy the the container grid libraries to the analogous directory: `/opt/tibco/fabric/webapps/livecluster/deploy/resources/gridlib/`. Alternatively, the distribution files can 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 to set another location for the distribution files.

Uninstalling the TIBCO Silver Fabric Enabler

Procedure

1. Navigate to the `TIBCO_HOME/tools/universal_installer/` directory and run **TIBCOUniversalInstaller** to open TIBCO Universal Installer.
2. 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.
3. Click the **Next** button. The Welcome page is displayed.
4. Click the **Next** button. Choose an uninstallation option in the Uninstallation Type page that appears. 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`.
5. 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.
6. 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**.
7. Review the Post-Uninstall Summary and click the **Finish** button to exit the uninstall wizard.

Remove Grid Libraries

Ensure you remove grid libraries after uninstallation.

Procedure

1. Shut down all the stacks running the enabler.
2. Remove all pertinent SilverFabric_*.zip files, from the following directory: `SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib`.