

TIBCO Silver[®] Fabric Enabler for Generic Adapter

Installation

*Software Release 1.0
November 2015*

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Preface

TIBCO Silver® Fabric Enabler for Generic Adapter™ is a complementary software component. Using this component, you can deploy TIBCO Adapter projects in cloud environments based on TIBCO Silver Fabric and leverage Silver Fabric capabilities. This accelerates deployments of Adapter projects, enforces its industry best practices, and provides elastic optimization of computing resources.

TIBCO generic Adapter refers to all TRA based Adapter products as well as the custom Adapters that you create with the help of Adapter SDK.

Topics

- [Related Documentation, page 6](#)
- [Typographical Conventions, page 7](#)
- [Connecting with TIBCO Resources, page 9](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO Silver Fabric Enabler for Generic Adapter Documentation

The following documents form the TIBCO Silver[®] Fabric Enabler for Generic Adapter[™] documentation set:

- *TIBCO Silver[®] Fabric Enabler for Generic Adapter[™] Installation*
Read this manual for instructions on site preparation and installation.
- *TIBCO Silver[®] Fabric Enabler for Generic Adapter[™] User's Guide*
Read this manual for instructions on using the product.
- *TIBCO Silver[®] Fabric Enabler for Generic Adapter[™] 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 Generic Adapter provides the TIBCO Silver Fabric private cloud infrastructure that can run TIBCO Adapter.

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

- TIBCO Silver[®] Fabric
- TIBCO ActiveMatrix BusinessWorks[™]
- TIBCO Designer[™]
- TIBCO Administrator[™]
- TIBCO Rendezvous[®]
- TIBCO Hawk[®]
- TIBCO Runtime Agent[™]
- 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>SFGA_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 Generic Adapter [™] is installed into a directory that is referenced in documentation as <i>SFGA_HOME</i> . The value of <i>SFGA_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco\sfga.
	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 Generic Adapter 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 product documentation is available from <https://docs.tibco.com>

TIBCO Silver Fabric Enabler for Generic Adapter documentation is here:

<https://docs.tibco.com/products/tibco-silver-fabric-generic-adapter>

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**

This chapter explains installation modes, requirements, and other options you should be aware of before starting the installation.

Topics

- [Installation Overview, page 12](#)
- [Installation Requirements, page 14](#)

Installation Overview

This section gives an overview of the installation.

Installation Modes

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

GUI Mode

In the GUI mode, you can choose your product, its location and so on with the help of the installer panels. 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: Typical or Custom.

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

Installer Account

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 the 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 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 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 may fail and 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 SFGA_HOME.

System Memory Requirements

A minimum of 4GB of physical memory is required.

Supported Platforms

TIBCO Silver Fabric Enabler for Generic Adapter is supported for use with TIBCO Silver Fabric on all platforms, where TIBCO Silver Fabric Broker is supported.

The TIBCO® <Adapter> Distribution for TIBCO Silver® Fabric may be published from any TIBCO Silver Fabric Broker to a select set of TIBCO Silver Fabric Engines with operating systems that support TIBCO Generic Adapter.

Software	Description
TIBCO Software	
The following software products are distributed and installed separately from this product. See the readme file for the supported versions.	
TIBCO Silver® Fabric	Required. To use Silver Fabric, you must install TIBCO Silver Fabric.
TIBCO Silver® Fabric Enabler for TIBCO Administrator™ - Enterprise Edition	Required. If you want to create a TIBCO Silver Fabric Enabler for Generic Adapter, you need this product. It creates a TIBCO Administrator component, TIBCO Domain, and starts TIBCO Hawk® services and a TIBCO Administrator server.
TIBCO Enterprise Message Service™ Or TIBCO Silver® Fabric Enabler for TIBCO Enterprise Message Service™	Optional. If your implementation uses TIBCO Enterprise Message Service (EMS), the message transports 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.
Third-party Software	
See the readme file for the supported versions.	

Software	Description
Microsoft Visual C++ 2005 Redistributable Package	<p>Optional.</p> <p>It is required only if you want to create a TIBCO Silver Fabric Enabler for Generic Adapter application. To use TIBCO Rendezvous on the domain, Microsoft Visual C++ 2005 Redistributable Package must be installed on your Windows operating system.</p> <p>Note:</p> <p>If Microsoft Visual C++ 2005 Redistributable Package is not included in the Windows version, refer to the readme file for the supported platforms, versions, and required patches. It should be installed separately.</p> <ul style="list-style-type: none">• Microsoft Visual C++ 2005 Redistributable Package (x86) can be downloaded from the following website: http://www.microsoft.com/downloads/en/details.aspx?FamilyId=32BC1BEE-A3F9-4C13-9C99-220B62A191EE&displaylang=en• Microsoft Visual C++ 2005 Redistributable Package (x64) can be downloaded from the following website: http://www.microsoft.com/en-us/download/details.aspx?id=21254

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



Based on the Adapter used, you must use the required third party software. You can get the list of supported software from the Adapter document.

Required and Optional Products

To get the list of required and optional products, refer to the "Prerequisites section" in Chapter 1 of *TIBCO Silver® Fabric Generic Adapter™ User's Guide* . To get the list of distributions, refer readme for the required product distributions.

Grid Libraries

The TIBCO Silver Fabric Enabler for Generic Adapter installation 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/

The Grid Libraries can be divided into two groups:

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

Enablers

Enablers are software containers made for use with TIBCO Silver Fabric. TIBCO Silver Fabric Enabler for Generic Adapter is made to configure and control how TIBCO Generic Adapter is 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 Generic Adapter with 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.

The following Enabler files are installed into the *TIBCO_HOME* directory. They must be copied to the TIBCO Silver Fabric Broker gridlib directory:

- `SilverFabric_<adpater>_container_<version>_gridlib.zip`
- `SilverFabric_<adpater>_componentType_version_.zip`

TIBCO Silver Fabric Enabler for Generic Adapter release version 1.0.0 supports:

- TIBCO File Adapter
- SDK Adapters

Distributions

Distributions are compressed native products that are obtained separately from the containers for TIBCO Silver Fabric Enabler for Generic Adapter. Distributions are platform-specific, compressed archives of native TIBCO products and other compressed grid libraries.



Distributions are made to support specific operating systems and bit sizes. Different platforms require different distributions.

Before creating the TIBCO Generic Adapter component, you must create custom distributions for the TIBCO Adapter of your choice. You can create distributions for only the Adapters that use TIBCO Runtime Agent and TIBCO Domain. It is possible to build distributions for SDK custom Adapters also.

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.



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

You must put Distributions and grid libraries into the same Silver Fabric directory as the Enabler files. Distributions are deployed to the Silver Fabric Engines according to the configurations set in the Component using the Enabler.

Table 2 Software Distributions

Distribution	Example Distribution File
TIBCO Generic Adapter distribution	TIB_SilverFabric_adfiles_7.0.0_0_linux_x86_distribution_gridlib.zip Note: The distribution name depends on the Adapter you are using and the naming convention that you follow.
TIBCO Administrator distribution	TIB_SilverFabric_tibcoadmin_5.9.1_0_linux_x86_distribution_gridlib.zip
TIBCO Rendezvous distribution	TIB_SilverFabric_rv_8.4.4_0_linux_x86_distribution_gridlib.zip
TIBCO Hawk distribution	TIB_SilverFabric_hawk_5.1.1_0_linux26gl23_x86_distribution_gridlib.zip
TIBCO Runtime Agent distribution	SilverFabric_tra_5.9.1_0_linux_x86_distribution_gridlib.zip

Chapter 2 **Installation Steps**

This chapter explains how to install and uninstall TIBCO Silver Fabric Enabler for Generic Adapter.



To install TIBCO Silver Fabric Enabler for Generic Adapter, you must set up a TIBCO Silver Fabric cloud environment. For detailed information, refer to *TIBCO Silver Fabric* documentation.

Topics

- [Prerequisite, page 20](#)
- [Uninstallation, page 28](#)
- [Uninstallation, page 28](#)

Prerequisite

TIBCO Silver Fabric must be installed before the installation of TIBCO Silver Fabric Enablers.

Installation

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

- [GUI Mode, page 21](#)
- [Console Mode, page 23](#)
- [Silent Mode, page 24](#)

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 **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.

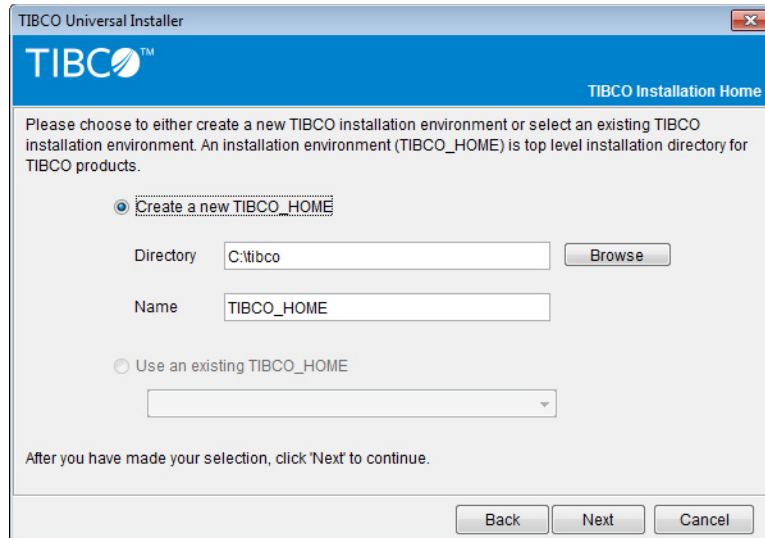
The Welcome page is displayed.

5. Click the **Next** button 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.

6. Click the **Next** button on the Installation Profile Selection page, the TIBCO Installation Home page is displayed, as shown in [Figure 1](#).

Figure 1 TIBCO Universal Installer - TIBCO Installation Home



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:

- **Directory** The directory into which the product is installed. Type a path or click **Browse** to specify the path or accept the default location.

The path cannot contain special characters such as: * # ? > < % & \$ ` or |.

The path cannot be the same as the path of an existing environment.

- **Name** Identifies the installation environment. The name cannot contain special characters such as * ? > < : | / \ ".

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.

7. Click **Next** on the Installation Profile Selection page of the installer or customize the installation to include only the Containers (Enablers) or the Extension-SDK. The Containers are required for this installation.

8. Review the Pre-Installation Summary 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 [Uninstallation](#) procedure and follow it to move the grid libraries to the specified directory to complete the installation.



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

Refer to the section [Uninstallation on page 28](#) for more information.



Distributions must also be downloaded separately and placed according to the instructions in the section on [Uninstallation on page 28](#).

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 window, navigate to the temporary directory.
4. Run the following:
 - **Windows** `TIBCOUniversalInstaller.cmd -console`
 - **Linux** `TIBCOUniversalInstaller-lnx-x86.bin -console`
 - **Solaris Sparc** `TIBCOUniversalInstaller-sol-sparc.bin -console`
 - **Solaris X86 64bit** `TIBCOUniversalInstaller-sol-x86.bin -console`
5. Respond and make entries at the console prompts for the installer.
6. Proceed to the [Uninstallation](#) procedure and follow it to move the grid libraries to the specified directory to complete the installation.



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

Refer to the section [Post-Installation on page 26](#) for more information.



Distributions must also be downloaded separately and placed according to the instructions in the section [Post-Installation on page 26](#).

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 are 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 one of the following for your operating system:

Windows `TIBCOUniversalInstaller.cmd -silent -V
responseFile="myfilename.silent"`

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

Solaris Sparc `TIBCOUniversalInstaller-sol-sparc.bin -silent -V
responseFile="myfilename.silent"`

Solaris X86 64bit `TIBCOUniversalInstaller-sol-x86.bin -silent -V
responseFile="myfilename.silent"`

7. Your silent installation must also provide for movement of the gridlib files to your TIBCO Silver Fabric Broker. The [Uninstallation](#) procedure describes where and what grid libraries must be moved to the specified directory to complete the installation.



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

Refer to the section [Uninstallation on page 28](#) for more information.



Distributions must also be downloaded separately and placed according to the instructions in the section [Uninstallation on page 28](#).

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_tibcoadmin_componentType_<version>.zip`
- c. `SilverFabric_sfga_componentType_1.0.0.zip`
- d. `SilverFabric_sfga_container_1.0.0_gridlib.zip`
- e. `SilverFabric_tibcoadmin_container_<version>_gridlib.zip`

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

Task A Get the Distribution Compressed Files

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

The distribution files ensure that a proper TIBCO product installer is used during deployment. Choose the sets of compressed archives for your intended deployment target platforms.

1. Build the custom distribution for the TIBCO Adapter of your choice using the readme available in the `SilverFabric_sfga_distributionBuilder_1.0.0.zip`.

```
TIB_SilverFabric_<adapter>_<version>_distribution.zip
TIB_SilverFabric_tra_5.9.1_0_win_x86_distribution_gridlib.zip
TIB_SilverFabric_rv_8.4.4_0_win_x86_vc10_distribution_gridlib.zip
TIB_SilverFabric_hawk_5.1.1_0_win_x86_distribution_gridlib.zip
```

2. Download the TIBCO Administrator - Enterprise Edition Distribution for TIBCO Silver Fabric grid library files available from the components on the TIBCO download site:
- <https://edelivery.tibco.com>
3. Without extracting the files, copy all of the distribution files directly to:
`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`

Task B Copy the Container Compressed Files

First, get the TIBCO Administrator container.zip files from the installation folder of TIBCO Silver Fabric Enabler for TIBCO Administrator™, that is, *SFTA_HOME\2.9\gridlib*.

Then get the Generic Adapter container.zip files from the directory after installation: *SFGA_HOME\1.0\gridlib*

Copy the container compressed files to the following directory:

SILVERFABRIC_HOME\webapps\livecluster\deploy\resources\gridlib

For Silver Fabric running on a Unix or Linux based platform, the container grid libraries should be copied to the analogous directory:

/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.

Uninstallation

To uninstall this product, do the following tasks:

- [Task A, Removing Grid Libraries, on page 28](#)
- [Task B, Uninstalling TIBCO Silver Fabric Enabler for Generic Adapter, on page 28](#)

Task A Removing Grid Libraries

1. Shut down all running TIBCO Silver Fabric Enabler for Generic Adapter™ applications.
2. Remove all `SilverFabric_*.zip` and `TIB_SilverFabric_*.zip` files from the following directory:

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

Task B Uninstalling TIBCO Silver Fabric Enabler for Generic Adapter

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. 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 check boxes 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 is displayed 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.

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