

TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition

Installation

*Software Release 2.9
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Preface

TIBCO Silver Fabric Enabler for TIBCO Administrator is a complementary software component that runs on TIBCO Silver Fabric Manager (the Broker).

Components created with TIBCO Silver[®] Fabric Enabler for TIBCO Administrator[™] - Enterprise Edition can be run independently but the product provides the most utility when it is used in concert with other TIBCO products leveraging the TIBCO Silver[®] Fabric private cloud infrastructure to run and manage products like TIBCO ActiveMatrix BusinessWorks[™], TIBCO Adapters, TIBCO BusinessEvents, and TIBCO Enterprise Message..



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

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.

TIBCO Silver[®] Fabric Enabler for TIBCO Administrator[™] - Enterprise Edition Documentation

The following documents form the TIBCO Silver[®] Fabric Enabler for TIBCO Administrator[™] - Enterprise Edition documentation set:

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

The TIBCO Silver Fabric private cloud infrastructure will run TIBCO Administrator and it can run many other Distributions and complementary applications like TIBCO Runtime Agent[™], TIBCO Hawk[®], TIBCO Rendezvous[®], and TIBCO ActiveMatrix BusinessWorks.

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

- TIBCO Silver[®] Fabric
- 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. 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>ENV_HOME</i>	
<i>SFTA_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 Administrator [™] - Enterprise Edition is installed into a directory that is referenced in documentation as <i>SFTA_HOME</i> . The value of <i>SFTA_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco\sfta. 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 ActiveMatrix BusinessWorks Concepts</i>. • To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand <i>PathName</i></code>
Key combinations	<p>Key names separated by a plus sign indicate keys pressed simultaneously. For example: <code>Ctrl+C</code>.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: <code>Esc, Ctrl+Q</code>.</p>
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Connecting with TIBCO Resources

How to Join TIBCOmmunity

TIBCOmmunity is an online destination for TIBCO customers, partners, and resident experts, a place to share and access the collective experience of the TIBCO community. TIBCOmmunity 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 TIBCO Administrator[™] - Enterprise Edition documentation is here:

<https://docs.tibco.com/products/tibco-silver-fabric-enabler-for-tibco-administrator-enterprise-edition>

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

Installation Overview

Installation Modes

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

GUI Mode

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

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

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 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 *SFTA_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 Administrator - Enterprise Edition, you must install TIBCO Silver Fabric and its latest patch.
TIBCO Runtime Agent	Required distribution..
TIBCO Hawk	Required distribution. TIBCO Administrator systems monitoring is helped by TIBCO Hawk.
TIBCO Rendezvous	Required distribution. TIBCO Administrator messaging uses the TIBCO Rendezvous daemon to pass information between processes on the host computer and optionally between processes on other Engines.
TIBCO Active Matrix BusinessWorks	Optional. TIBCO Administrator manages TIBCO ActiveMatrix BusinessWorks for 5.x releases which can be dependent on the installation of TIBCO Administrator.
TIBCO Enterprise Message Service (EMS) and Database Product	Optional. TIBCO Administrator may be configured to use TIBCO Enterprise Message Service (EMS) to transport messages between applications, services, and a database. The EMS and the database product must be installed separately or using the Silver Fabric Enabler for EMS it can be published to a Silver Fabric Engine as a dependency. The configurations of these products are defined in the related product documentation. For information about the connection of TIBCO Domain to a database, refer to <i>TIBCO Administrator Application Component</i> or <i>Creating a Domain that Uses a Database in Domain Utility User's Guide</i> in <i>TIBCO Runtime Agent</i> documentation.

Table 2 Software Requirements

Software	Description
Third-party Software See the readme file for the supported versions.	
Microsoft Visual C++ 2005 Redistributable Package	<p>Required. To use TIBCO Rendezvous you will need 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 listed in the readme, 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

Grid Libraries

The TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition 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 made for use with TIBCO Silver Fabric and the Enablers for this product are made to configure and control how TIBCO Administrator will be published to a Silver Fabric Engine. Enablers are configured using the TIBCO Silver Fabric Administration user interface to specify settings, installation, configuration, and deployment logic for TIBCO Administrator 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 Enabler put in the proper directory .

The following are the current versions of the enablers required:

- `SilverFabric_tibcoadmin_container_2.9.0_gridlib.zip`
- `SilverFabric_tibcoadmin_componentType_2.9.0.zip`

Distributions

Distributions are compressed native products that are obtained separately from the TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition. Distributions must be downloaded separately from the specific product area of the download site.

Copy distributions grid libraries into the same Silver Fabric directory as the Enablers. Distributions are published to the Silver Fabric Engines according to the configurations set using the Enabler to create the Component.

The TIBCO Administrator Distribution for TIBCO Silver Fabric is used to publish and run TIBCO Administrator on a Silver Fabric Engine with a specifically supported operating system platform.



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

Required Product Distributions

For each platform type your implementations will target for publishing Components created using TIBCO Silver[®] Fabric Enabler for TIBCO Administrator[™] - Enterprise Edition, you will require a platform specific set of the following TIBCO product distributions:

- TIBCO Administrator Distribution for TIBCO Silver Fabric
- TIBCO Rendezvous Distribution for TIBCO Silver Fabric
- TIBCO Hawk Distribution for TIBCO Silver Fabric
- TIBCO Runtime Agent Distribution for TIBCO Silver Fabric

Table 3 shows distributions created for a Linux (x86) platform.

Table 3 An example set of Distributions when TIBCO Administrator 5.9.0 is to be published

Distribution	Example Distribution Files for a Linux x86 platform
TIBCO Administrator Distribution for TIBCO Silver Fabric	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



If you want to run the same Components and Stacks on a TIBCO Silver Fabric Cloud with multiple supported operating system platforms, you need to copy all the relevant distributions to the TIBCO Silver[®] Fabric Broker that manages it. Having extra unused distributions doesn't hurt anything, but lacking required distributions will adversely affect functionality.

Chapter 2 **Installation Steps**

This chapter explains how to install and uninstall TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition.



Pre-requisite: To install TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition, you need to set up a TIBCO Silver[®] Fabric cloud environment. For detailed information, refer to the *TIBCO Silver Fabric* documentation.

Topics

- [Installation, page 10](#)
- [Post-Installation, page 14](#)
- [Uninstallation, page 16](#)

Installation

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

- [GUI Mode, page 10](#)
- [Console Mode, page 12](#)
- [Silent Mode, page 12](#)

GUI Mode

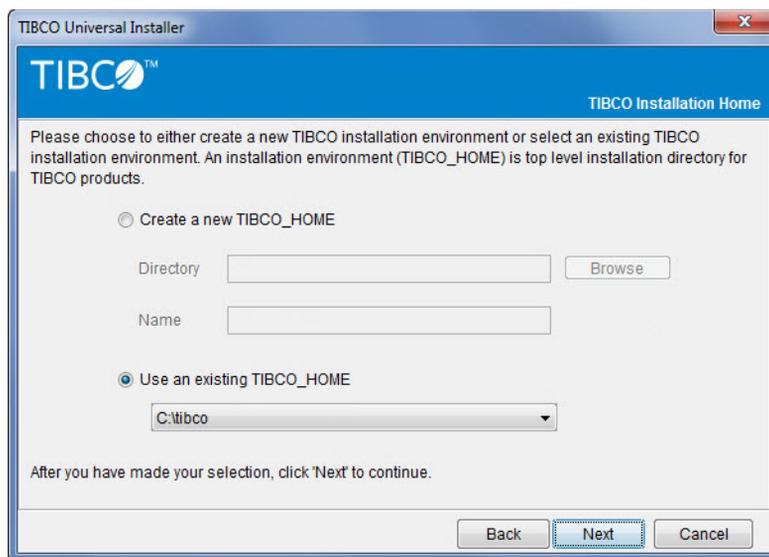
To install this product in GUI mode:

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.
5. Click the **Next** button on the Welcome page.

The License Agreement page is displayed.
6. Read through the license text and select the **I accept the terms of the license agreement** radio button.

- Click the **Next** button on the Installation Profile Selection page, the TIBCO Installation Home page appears, 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 "*", "?", ">", "<", ":", "|", "/", "\", 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.

8. Click the **Next** button on the TIBCO Installation Home page and the Pre-Install Summary page appears. Review the Pre-Installation Summary.
9. Click the **Install** button to start the installation process.
10. Click the **Finish** button to complete the installation process and exit the universal installer.
11. 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 14](#) for more information.



Distributions must also be downloaded separately and placed according to the instructions in the section on [Post-Installation on page 14](#).

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. Complete the installation by responding to the console window prompts.

Silent Mode

In silent mode, the universal installer does not prompt for any inputs during installation. Instead, the inputs are read from a response file that can be provided as a command-line parameter. If no value is specified, the installer uses the default `TIBCOUniversalInstaller.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 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"
```

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_2.9.0.zip`
- c. `SilverFabric_tibcoadmin_container_2.9.0_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 files

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

The distribution files ensure the proper TIBCO product installer is used when published. Choose the sets of zipped archives for your intended deployment target platforms.

1. Download required Distributions from the TIBCO official download site - <https://edelivery.tibco.com>

The files are named according to the current version release number and the operating system supported with file names like the following :

`TIB_SilverFabric_tibcoadmin_5.9.1_0_linux_x86_distribution_gridlib.zip`

2. Without extracting the file, copy the distributions directly to:
`SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib/`

Task B Copy the Enabler ZIP files

After installation the Grid Library Enablers are stored in the directory:
`SFTA_HOME\2.9\gridlib`

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

`SILVERFABRIC_HOME\webapps\livecluster\deploy\Resources\gridlib\`

For Silver Fabric running on a Unix or Linux based platform the Enabler 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 an alternative location for the distribution files.

For detailed information about Grid Libraries, distributions, and Enablers, refer to [Grid Libraries on page 7](#).

Uninstallation

To uninstall this product, do the following two tasks:

- [Task A, Removing Grid Libraries, on page 16](#)
- [Task B, Uninstalling TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition, on page 16](#)

Task A Removing Grid Libraries

1. Shut down all running TIBCO Silver Fabric Enabler for TIBCO Administrator - Enterprise Edition 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 TIBCO Administrator - Enterprise Edition

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 appears.
4. 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`.
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.

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