

# TIBCO® Adapter SDK

## Installation

*Software Release 5.8  
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# Preface



**This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme file for the availability of this software version on a specific operating system platform.**

TIBCO Adapter SDK (Software Development Kit) is a class library that facilitates adapter development. All adapters implemented using TIBCO Adapter SDK have the same external interface and consistently plug in to the overall TIBCO ActiveEnterprise product suite.

## Topics

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- [Changes from the Previous Release of this Guide, page vi](#)
- [Related Documentation, page vii](#)
- [Typographical Conventions, page viii](#)
- [Connecting with TIBCO Resources, page xi](#)

## Changes from the Previous Release of this Guide

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This section itemizes the major changes from the previous release of this guide.

### **TIBCO Universal Installer**

TIBCO Universal Installer is used in this release. The whole book is updated to introduce the new installer and the installation steps.

## Related Documentation

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This section lists documentation resources you may find useful.

### TIBCO Adapter SDK Documentation

The following documents form the TIBCO Adapter SDK documentation set:

- *TIBCO Adapter SDK Concepts* Read this manual before reading any other book in the documentation set to familiarize yourself with the product and its use.
- *TIBCO Adapter SDK Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO Adapter SDK Programmer's Guide* Read this manual for details on implementing a custom adapter. This manual also discusses configuration and programming, and provides example code fragments.
- *TIBCO Adapter SDK Status Codes* A reference for the message codes used by TIBCO Adapter SDK.
- *TIBCO API Reference* Provides online documentation for the exposed interfaces, classes, and methods of the TIBCO Adapter C++ and Java APIs.
- *TIBCO Adapter SDK Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of closed and known issues for this release.

### Other TIBCO Product Documentation

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

- TIBCO ActiveMatrix BusinessWorks™
- TIBCO ActiveEnterprise™
- TIBCO Designer™
- TIBCO Administrator™
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service™
- TIBCO Hawk®
- TIBCO Runtime Agent™

## Typographical Conventions

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The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>ENV_NAME</i> <i>TIBCO_HOME</i> <i>SDK_HOME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none"> <li>• <b>Name</b> Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start &gt; All Programs menu.</li> <li>• <b>Path</b> The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>.</li> </ul> <p>TIBCO Adapter SDK is installed into a directory within a <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>SDK_HOME</i>. The default value of <i>SDK_HOME</i> depends on the operating system. For example, on Windows systems, the default value is <code>C:\tibco\adapter\SDK\version_number</code>.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> to start the foo process.</p>
<b>bold code font</b>	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none"> <li>• In procedures, to indicate what a user types. For example: Type <b>admin</b>.</li> <li>• In large code samples, to indicate the parts of the sample that are of particular interest.</li> <li>• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, <code>MyCommand</code> is enabled: <code>MyCommand [<b>enable</b>   disable]</code></li> </ul>

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"> <li>• To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>.</li> <li>• To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.</li> <li>• To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand <i>PathName</i></code></li> </ul>
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.

Table 2 Syntax Typographical Conventions

Convention	Use
[ ]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <pre>MyCommand [optional_parameter] required_parameter</pre>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <pre>MyCommand para1   param2   param3</pre>

Table 2 *Syntax Typographical Conventions*

Convention	Use
{ }	<p>A logical group of items in a command. Other syntax notations may appear within each logical group.</p> <p>For example, the following command requires two parameters, which can be either the pair <code>param1</code> and <code>param2</code>, or the pair <code>param3</code> and <code>param4</code>.</p> <pre>MyCommand {param1 param2}   {param3 param4}</pre> <p>In the next example, the command requires two parameters. The first parameter can be either <code>param1</code> or <code>param2</code> and the second can be either <code>param3</code> or <code>param4</code>:</p> <pre>MyCommand {param1   param2} {param3   param4}</pre> <p>In the next example, the command can accept either two or three parameters. The first parameter must be <code>param1</code>. You can optionally include <code>param2</code> as the second parameter. And the last parameter is either <code>param3</code> or <code>param4</code>.</p> <pre>MyCommand param1 [param2] {param3   param4}</pre>

## Connecting with TIBCO Resources

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### 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

After you join TIBCOCommunity, you can access the documentation for all supported product versions here:

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

### 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

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

## Installation Overview

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This section gives an overview of the installer.

### Installation Modes

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

#### 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: Profile or Custom.

- The Profile 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.

## UNIX

Any user can install this product.

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

While installing this product on UNIX platforms, ensure that the same installer account is used to install all TIBCO 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 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

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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 700 MB of disk space.

#### Temporary Disk Space Required by the Installer

The installer requires at least 100 MB 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 700 MB of free space under *TIBCO\_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 and versions and required patches.

## Software Requirements

[Table 3](#) lists the required and optional software products..

*Table 3 Software Requirements*

Software	Description
<b>TIBCO Software</b> The software products below are distributed and installed separately from this product. See the readme file for the supported versions.	
TIBCO Rendezvous	Required. TIBCO Rendezvous needs to be installed separately before installing TIBCO Runtime Agent.
TIBCO Runtime Agent	Required. TIBCO Runtime Agent includes TIBCO Designer along with a number of TIBCO and third-party libraries used by the plug-in and other TIBCO products. You must install TIBCO Runtime Agent before you install TIBCO Adapter SDK.
TIBCO Enterprise Message Service	Required. TIBCO Enterprise Message Service is used as the notification and messaging backbone for TIBCO Adapter SDK. TIBCO Adapter SDK is not necessarily installed on the machine on which TIBCO Enterprise Message Service is installed. <b>Note:</b> TIBCO Enterprise Message Service is also used by the TIBCO ActiveMatrix SOAP and JMS binding types. The TIBCO Adapter SDK license does not cover this usage of the included TIBCO Enterprise Message Service software. You must separately license TIBCO Enterprise Message Service or another supported JMS product for this usage.



## Chapter 2 **Installation Steps**

This chapter explains how to install and uninstall this product.

### Topics

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- [Installation, page 8](#)
- [Uninstallation, page 12](#)

## Installation

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

- [GUI Mode, page 8](#)
- [Console Mode, page 9](#)
- [Silent Mode, page 10](#)

### 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. 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 on without specifying any options. The installer defaults to GUI mode.
5. Click the **Next** button on the Welcome dialog.
6. Read through the license text when the License Agreement dialog appears, select the **I Accept The Terms Of The License Agreement** radio button, and click the **Next** button.
7. Select an installation profile from the list on the left. TIBCO Universal Installer provides the following installation profiles:
  - **Runtime** Includes the executable files, library files, and configuration files used at runtime.
  - **Resources** Includes the header files, examples, and documentation.

To customize the profile feature settings, check the **Customize Installation** checkbox and use the feature tree on the right.

8. Click the **Next** button. The TIBCO Installation Home dialog appears.

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.

- **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 the **Browse** button 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.

In this case, you need to select the **Use An Existing TIBCO\_HOME** radio button to install this product into the *TIBCO\_HOME* directory where TIBCO Rendezvous and TIBCO Runtime Agent are installed.

9. Click the **Next** button.
10. Verify the list of products selected for installation in the Pre-Install Summary dialog.
11. Click the **Install** button to start the installation process.
12. Review the information listed in the Post-Install Summary dialog.
13. Click the **Finish** button to complete the installation process and exit the universal installer.

## 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 `TIBCOUniversalInstaller -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's 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 installation location, `ENV_NAME`, and features to be installed as follows:

- Update the installation location. TIBCO Adapter SDK must be installed in the same directory where TIBCO Runtime Agent is installed. For example, update the directory as follows:

```
<entry key="installationRoot">C:\tibco</entry>
```

- Update `ENV_NAME`. TIBCO Adapter SDK must use the same `ENV_NAME` that TIBCO Runtime Agent uses.

For example, update `ENV_NAME` as follows:

```
<entry key="createNewEnvironment">>false</entry>
```

```
<entry key="environmentName">TIBCO_HOME</entry>
```

- Update features to be installed. Set the features that you want to install to true as follows:

```
<!--Product Feature Settings-->
```

```
<entry key="feature_Runtime_sdk">>true</entry>
```

```
<entry key="feature_Resources_sdk">>true</entry>
```

6. Run the following:

```
Windows TIBCOUniversalInstaller.cmd -silent
```

```
UNIX TIBCOUniversalInstaller.bin -silent
```

## Uninstallation

---

This section describes how to uninstall this product in the GUI mode and the Console mode.

### GUI Mode

To uninstall this product:

1. Shut down all running TIBCO applications.
2. Navigate to `TIBCO_HOME/tools/universal_installer` and run `TIBCOUniversalInstaller`.
3. In the TIBCO Installation Manager page, perform the following steps:
  - Select the **Uninstall Products From Selected TIBCO Home Location** radio button.
  - Select the `TIBCO_HOME` location from the TIBCO Home Location drop-down list.
4. The Welcome dialog appears. Click the **Next** button.
5. Choose an uninstallation option. The wizard provides two uninstallation options:
  - **Custom Uninstall** You can select the products to be removed.
  - **Typical Uninstall** The universal uninstaller removes all the products in this `TIBCO_HOME`.
6. 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, then click the **Uninstall** button.
7. Review the Pre-Uninstall Summary and click the **Uninstall** button to start the uninstallation process.
8. Review the Post-Uninstall Summary and click the **Finish** button to exit the uninstall wizard.

### Console Mode

To uninstall this product in Console mode, complete the following steps:

1. Using a command window, navigate to the `TIBCO_HOME\tools\universal_installer` directory.
2. Type the following command at the command prompt:

**TIBCOUniversalInstaller.exe -console**

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



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