

TIBCO ActiveMatrix BusinessWorks™ Plug-in for OSIsoft PI System 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, please visit:

<https://docs.tibco.com>

Product-Specific Documentation

Documentation for TIBCO products is not bundled with the software. Instead, it is available on the TIBCO Documentation site at <https://docs.tibco.com/products/tibco-activematrix-businessworks-plugin-for-osisoft-pi-system>. To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/release_notes/TIB_bwpluginpi_version_docinfo.html`

where `TIBCO_HOME` is the top-level directory in which TIBCO products are installed. On Windows, the default `TIBCO_HOME` is `C:\Program Files\tibco`. On UNIX systems, the default `TIBCO_HOME` is `/opt/tibco`.

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

- *TIBCO ActiveMatrix BusinessWorks Plug-in for OS/soft PI System Installation*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for OS/soft PI System User's Guide*
- *TIBCO ActiveMatrix BusinessWorks Plug-in for OS/soft PI System Release Notes*

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

You can install TIBCO ActiveMatrix BusinessWorks™ Plug-in for OSIsoft PI System by using TIBCO Universal Installer or the update site.

- TIBCO Universal Installer

You can install the plug-in by using TIBCO Universal Installer, which provides three installation modes.

For more information about this installer, see [Using TIBCO Universal Installer](#).

- Update Site

You can install the plug-in from within TIBCO Business Studio by using the public update site maintained by TIBCO or a local update site managed by your organization.

For more information about how to use the update site for installation, see [Using Update Site](#).

A plug-in must be installed into an existing installation environment where TIBCO ActiveMatrix BusinessWorks™ is already installed. The installation environment of TIBCO ActiveMatrix BusinessWorks is referenced as *TIBCO_HOME*. On Microsoft Windows, the default value of *TIBCO_HOME* is C:\Program Files\tibco.



If a previous version of the plug-in is already installed in the *TIBCO_HOME* where you want to install the new version, uninstall the previous version before installing the new version.

Installation Requirements

Before you run the installer, ensure that you have appropriate privileges to run the installer and your system meets all the hardware and software requirements.

Account Privileges

You must have appropriate privileges to install on Microsoft Windows or Linux.



Use the same installer account to install all TIBCO ActiveMatrix BusinessWorks products.

Platform	Account Privileges
Microsoft Windows	<p>Only users with administrator privileges can install the plug-in. Otherwise, the installer automatically exits.</p> <p>To install the product on a network drive, ensure that the account used for installation has permission to access the network drive.</p>
Linux	<p>Any type of user, regular (non-root) user and super-user (root), can perform the installation.</p> <p>A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.</p>

System Requirements

Before you run the installer, ensure that the hardware and software requirements are met.

Platform

Ensure that the appropriate platform is supported.

For information about supported operating system platforms, versions, and the required patches, see the `readme` file.

Disk Space

The installer requires some space in the temporary directory before installation, and additional space in the temporary directory to run the installer. Ensure that sufficient space is available in the directory that you want to use as the installation environment (`TIBCO_HOME`).



While installing the product, avoid running other processes that use disk space in the installation environment directory. If another process uses disk space while the installer is copying files, the installer might fail and display a failure message.

Software

Ensure that you have installed the following TIBCO and third-party products. For supported products and versions, see the `readme` file.

Software	Description
TIBCO ActiveMatrix BusinessWorks	<p>Required.</p> <p>It supports your integration project throughout the project life cycle, and includes a common graphical user interface for configuration, process design, and deployment.</p>
TIBCO® Enterprise Administrator	<p>Optional.</p> <p>It consists of a TIBCO Enterprise Administrator server, a web user interface for the server, and a shell interface, with which you can manage the applications that you create in TIBCO Business Studio.</p>
PI SQL Data Access Server	<p>Required.</p> <p>PI SQL Data Access Server is the gateway between PI JDBC driver and PI OLEDB Enterprise/PI OLEDB providers, and it provides secure network communication. This component must be installed on the server side.</p>
PI JDBC (Java Database Connectivity) Driver	<p>Required.</p> <p>PI JDBC driver is the JDBC client for Windows or Linux operating system, and it provides data access to the PI System through SQL queries.</p>
PI AF (Asset Framework) Client	<p>Required only for Windows operating system.</p> <p>It is the client application that communicates with the AF server through AF software development kit.</p>

Using TIBCO Universal Installer

By using TIBCO Universal Installer, you can install TIBCO ActiveMatrix BusinessWorks Plug-in for OSIsoft PI System in three modes and uninstall it in two modes.

Installer Overview

TIBCO Universal Installer provides three modes to install TIBCO ActiveMatrix BusinessWorks Plug-in for OSIsoft PI System. Using this installer, you can customize the installation environment and components.

If you are using TIBCO Universal Installer for the first time to install the plug-in, it is good practice to review the following topics before installation:

- [Installation Modes](#)
- [Installation Environment](#)
- [Installation Components](#)

Installation Modes

You can run TIBCO Universal Installer in GUI, console, or silent mode. Each mode is supported on all platforms.

GUI Mode

In this mode, the installer displays panels where you can select the product, product location, and so on. To invoke the installer in this mode, double-click the executable file.

Console Mode

In this mode, you can run the installer on a command line. This is useful if your machine does not have a GUI environment.

Silent Mode

In this mode, the installer installs the product without prompting you for information. The installer uses either default or custom settings that are saved in a response file.

Installation Environment

An installation environment is the top level installation directory for TIBCO products. It helps to isolate product installations so that the product installed into one installation environment cannot access components in other installation environments.

An installation environment consists of the following properties:



- Directory: where the product is installed.
- Name: the name of the folder where the product is installed.

Installation Components

Different installation components are associated with different functions. Using this installer, you can select which installation components to install.

Installation components are grouped into different installation profiles. When you select a profile, the components grouped within it are installed. By default, the **Typical** installation profile is selected, that is, all the installation components will be installed.

The following installation components are available for the plug-in:

Component	Description
TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System-AF Design	These components include the palettes, shared resources, and sample projects that show how the plug-in interacts with TIBCO ActiveMatrix BusinessWorks. You can configure your own business process in TIBCO Business Studio with an Eclipse user interface.
TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System-JDBC Design	<p>These components cannot be installed alone without the runtime components.</p> <p> The TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System-AF Design component is only available on Windows.</p>
TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System-AF Runtime	<p>These components pass and convert data to and from vendor applications. The parameters of data exchange are stored in projects that are created by using the plug-in palette.</p> <p> The TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System-AF Runtime component is only available on Windows.</p>
TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System-JDBC Runtime	

Installation

When using TIBCO Universal Installer, you can install the plug-in in GUI, console, or silent mode.

Ensure that your system meets all the installation requirements. For more information, see [Installation Requirements](#).



The plug-in must be installed into an existing installation environment where TIBCO ActiveMatrix BusinessWorks is installed. Stop all running processes in the installation environment before the installation.

Installing in GUI Mode

In GUI mode, the installer prompts you for information regarding the installation environment, installation profile, and other installation information.

Procedure

1. Open the physical media or download the installation package from the TIBCO eDelivery site (<https://edelivery.tibco.com>).
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the content of the installation package to a temporary directory.
3. Start the installation in one of the following ways:
 - On Microsoft Windows, double-click `TIBCOUniversalInstaller.exe`.
 - On Linux, run `TIBCOUniversalInstaller-platform_acronym.bin`.
4. In the Welcome dialog, click **Next**.
5. In the License Agreement dialog, read through the license agreement, click **I accept the terms of the license agreement**, and then click **Next**.

6. In the TIBCO Installation Home dialog, click **Use an existing TIBCO_HOME** and select an existing installation environment where TIBCO ActiveMatrix BusinessWorks is installed. Click **Next**.
For more information about the installation environment, see [Installation Environment](#).
7. In the Installation Profile Selection dialog, do one of the followings:
 - To install all the default components, in the left panel, click the **Typical** profile, and then click **Next**.
 - To select specific components to install, select the **Customize Installation** check box, and then select the components in the right panel. Click **Next**.
 For more information about the installation components, see [Installation Components](#).
8. In the PI Third Party Libraries dialog, specify the location of the PI JDBC driver JAR file by clicking **Browse**, and then click **Next**.
9. In the Pre-Install Summary dialog, review the list of products to be installed, and then click **Install**.
10. In the Post Install Summary dialog, review the installation information, and then click **Finish** to complete the installation process and exit the universal installer.

Installing in Console Mode

In console mode, you can run the installer on a command line.

Procedure

1. Open the physical media or download the installation package from the TIBCO eDelivery site (<https://edelivery.tibco.com>).
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the content of the package to a temporary directory.
3. On a command line, navigate to the temporary directory to which you extracted the installation package.
4. Start the installation by running one of the following commands:
 - On Microsoft Windows: `TIBCOUniversalInstaller.cmd -console`
 - On Linux: `./TIBCOUniversalInstaller-platform_acronym.bin -console`
5. Respond to the messages on the command line.
The installation options are the same as in GUI mode. For more information, see [Installing in GUI Mode](#).
6. When the installation is completed, press Enter to exit the installer.

Installing in Silent Mode

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

A default response file named `TIBCOUniversalInstaller_bwpluginpi_version.silent` is packaged with TIBCO Universal Installer. Before launching the silent installation, edit the response file with information about your environment. It is good practice to make a copy of the default response file, and then edit that file and use it for the installation.

- If you invoke the installer with the **-silent** argument, the installer reads the input from the default response file.

- If you invoke the installer with the `-silent -V responseFile=<filename>` argument, the installer reads the input from the specified response file.

Procedure

1. Open the physical media or download the package from the TIBCO eDelivery site (<https://edelivery.tibco.com>).
To download the installation package, a user name and password are required. If you do not have a user name and password, contact TIBCO Technical Support.
2. Extract the content of the package to a temporary directory and open the `TIBCOUniversalInstaller_bwpluginpi_version.silent` file.
3. Update the response file directly, or make a copy of the response file first and then update the copied file.
4. On the command line, navigate to the temporary directory where you extracted the installation package.
5. Start the installation by running one of the following commands:
 - On Microsoft Windows: `TIBCOUniversalInstaller.cmd -silent [-V responseFile="filename"]`
 - On Linux: `TIBCOUniversalInstaller-platform_acronym.bin -silent [-V responseFile="filename"]`



If you copy the response file to another directory, not the temporary directory containing the installer, provide the absolute path of the response file.

Uninstallation

You can uninstall the plug-in by using TIBCO Universal Installer in GUI or console mode.



Before uninstalling the plug-in, stop all running processes in the installation environment.

Uninstalling in GUI Mode

By using TIBCO Universal Installer to uninstall the plug-in in GUI mode, you can uninstall all or specific products from the selected `TIBCO_HOME`.

Procedure

1. Navigate to the `TIBCO_HOME/tools/universal_installer` directory.
2. Start the uninstallation by using one of the following methods:
 - On Microsoft Windows, double-click `TIBCOUniversalInstaller.exe`.
 - On Linux, run `TIBCOUniversalInstaller-platform_acronym.bin`.
3. In the TIBCO Installation Manager dialog, select **Uninstall Products from a TIBCO Home Location**.
4. From the **TIBCO Home Location** list, select the TIBCO HOME where the product is installed, and then click **Next**.
5. In the Welcome dialog, click **Next**.
6. In the Uninstallation Type dialog, select one of the following uninstallation options, and then click **Next**.
 - **Custom Uninstall**

To remove specific products, select this option, and then go through [Step 7](#) to [Step 9](#) to complete the uninstallation.

- **Typical Uninstall**

To remove all the products in the selected TIBCO HOME, select this option, and then go through [Step 8](#) to [Step 10](#) to complete the uninstallation.

7. If you select **Custom Uninstall** in [Step 6](#), in the Product Uninstall Selection dialog, select the **TIBCO ActiveMatrix BusinessWorks(TM) Plug-in for OSIsoft PI System *version*** check box, and then click **Next**.
8. In the Pre-Uninstall Summary dialog, review the product to be uninstalled, and then click **Uninstall**.
9. In the Post Uninstall Summary dialog, click **Finish** to exit the universal installer.
10. If you have uninstalled all the products in the selected TIBCO HOME, delete the folders in the installation environment and user home to complete the uninstallation.

Uninstalling in Console Mode

If you are not working in the GUI environment, you can uninstall the software in console mode.

Procedure

1. On a command line, navigate to the `TIBCO_HOME/tools/universal_installer` directory.
2. Start the uninstallation by running one of the following commands:
 - Microsoft Windows: `TIBCOUniversalInstaller.cmd -console`
 - Linux: `./TIBCOUniversalInstaller-platform_acronym.bin -console`
3. Respond to the messages on the command line.
The uninstallation options are the same as in GUI mode. For more information, see [Uninstalling in GUI Mode](#).
4. When the uninstallation is completed, press Enter to exit the installer.

Using Update Site

You can install the plug-in by using the public update site maintained by TIBCO or a local update site managed by your organization.

Installing the Plug-in Using a Public Update Site


You can install TIBCO ActiveMatrix BusinessWorks Plug-in for OSIsoft PI System from within TIBCO Business Studio by using the public update site maintained by TIBCO.

Prerequisites

The software package must be available on the update site <http://update.tibco.com/eclipse/bw/6.3>. Typically, the package name has the format `<plugin_name>_<version>_p2installer.zip`.

Procedure

1. Start TIBCO Business Studio if it has not already been started.
 - On Microsoft Windows, click **Start > All Programs > TIBCO > TIBCO_HOME > TIBCO Business Studio version_number > Studio for Designers**.
 - On Linux, run the TIBCO Business Studio executable located in the `TIBCO_HOME/studio/version_number/eclipse` directory.
2. From the menu, select **Help > Install New Software** to open Eclipse Update Manager.
3. In the Install dialog, enter the URL of the public update site, `http://update.tibco.com/eclipse/bw/6.3`, in the **Work with** field.
You can save the URL by adding it to the list of available software sites using the TIBCO Business Studio menu **Window > Preferences > Install/Update > Available Software Sites**.
4. From the list of available plug-ins, select the plug-in you want to install. Click **Next**.



You can select more than one plug-in from the list to install multiple plug-ins at the same time.
5. In the Install Details dialog, review the components you want to install. Click **Next**.
6. In the Review Licenses dialog, review the licenses, and click **I accept the terms of the license agreement**.
7. Click **Finish** to start the installation.

What to do next

After installing the software, restart TIBCO Business Studio. This restart is necessary for the software to install completely.

Installing the Plug-in Using a Local Update Site or Directory

You can install TIBCO ActiveMatrix BusinessWorks Plug-in for OSIsoft PI System from within TIBCO Business Studio by using a local site or directory maintained by your organization.

Prerequisites

Ensure that the software package is downloaded from the TIBCO download site and stored in an appropriate location, such as a local update site or a directory. Typically, the package name has the format `<plugin_name>_<version>_p2installer.zip`.

Procedure


1. Start TIBCO Business Studio if it has not already been started.
 - On Microsoft Windows, click **Start > All Programs > TIBCO > TIBCO_HOME > TIBCO Business Studio *version_number* > Studio for Designers**.
 - On Linux, run the TIBCO Business Studio executable located in the *TIBCO_HOME/studio/version_number/eclipse* directory.
2. From the menu, select **Help > Install New Software** to open Eclipse Update Manager.
3. In the Install dialog, click **Add** to add a new update site you want to work with.



Only one update site can be added at a time. Repeat the following steps to add multiple repositories that contain the downloaded software packages.

You can manage the list of software sites using the TIBCO Business Studio menu **Window > Preferences > Install/Update > Available Software Sites**.

- a) In the Add Repository dialog, click **Archive** and locate the Eclipse plug-in installation package you want to install, and then click **Open**.
The selected plug-in installation package is added to the **Location** field.
- b) Provide a name for the repository. For example, specify the name as **TIBCO Plugin Update Site for <plug-in>**. Click **OK**.
The plug-in installation package is added to the list of available software in the Install dialog.
4. In the Install dialog, select the plug-in you want to install. Click **Next**.



If there is more than one plug-in in the dialog, you can select multiple plug-ins to install at the same time.
5. In the Install Details dialog, review the components you want to install. Click **Next**.
6. In the Review Licenses dialog, review the licenses, and click **I accept the terms of the license agreement**.
7. Click **Finish** to start the installation.

What to do next

After installing the software, restart TIBCO Business Studio. This restart is necessary for the software to install completely.

Uninstalling the Plug-in

You can uninstall TIBCO ActiveMatrix BusinessWorks Plug-in for OSIsoft PI System from Eclipse Update Manager.

Procedure

1. Open TIBCO Business Studio in one of the following ways:
 - On Microsoft Windows: click **Start > All Programs > TIBCO > TIBCO_HOME > TIBCO Business Studio *version_number* > Studio for Designers**.
 - On Linux: run the TIBCO Business Studio executable located in the *TIBCO_HOME/studio/version_number/eclipse* directory.
2. From the menu, open Eclipse Update Manager by clicking **Help > Install New Software**.
3. In the Available Software dialog, click the **already installed** link.

4. In the **Installed Software** tab, select the product to be uninstalled, and then click **Uninstall**.
5. In the Uninstall Details dialog, review the product to be uninstalled, and then click **Finish**.
6. Click **Restart Now** when you are prompted to restart TIBCO Business Studio.

Installation Logging

If you encounter problems with the installation, first ensure that your system meets all the requirements, and then check the installer log for potential problems.

The installer log file, `tibco_universal_installer.username_install.log`, is available in the following locations:

- On Microsoft Windows: `C:\Users\username\.TIBCO\install_timestamp`
- On Linux: `user_home_dir/.TIBCO/install_timestamp`

The installer log file captures the following information:

- Detailed information regarding the user that invoked the installer, host name, operating system details, and so on
- List of assemblies installed
- Information related to the Ant scripts executed by the installer

When you run the installer, you can change the location of the installer log file by specifying the `-v logFile="myLogFile"` option.