



TIBCO BusinessWorks™ Container Edition

Installation

Version 2.10.0 | December 2024

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Changing Help Preferences

By default, documentation access from TIBCO Business Studio™ for BusinessWorks™ is online, through the [TIBCO Product Documentation](https://docs.tibco.com/) website that contains the latest version of the documentation. Check the website frequently for updates. To access the product documentation offline, download the documentation to a local directory or an internal web server and then change the help preferences in TIBCO Business Studio for BusinessWorks.

Before you begin

Before changing the help preferences to access documentation locally or from an internal web server, download the documentation.

1. Go to <https://docs.tibco.com/>
2. In the **Search** field, enter TIBCO ActiveMatrix BusinessWorks™ and press **Enter**.
3. Select the TIBCO ActiveMatrix BusinessWorks™ product from the list. This opens the product documentation page for the latest version.
4. Click **Download All**.
5. A compressed .zip file containing the latest documentation is downloaded to your web browser's default download location.
6. Copy the .zip file to a local directory or to an internal web server and unzip the file.

To point to a custom location:

Procedure

1. Perform one of the following steps in TIBCO Business Studio for BusinessWorks based on your operating system:
 - On Windows OS: Click **Window > Preferences**
 - On macOS: Click **TIBCO Business Studio > Preferences**.
2. In the Preferences dialog, click **BusinessWorks > Help**.
3. Click **Custom Location**, and then browse to the `html` directory in the folder where you extracted the documentation or provide the URL to the `html` directory on your

internal web server.

4. Click **Apply**, and then click **OK**.

Installation Requirements

Before installing the product on your system, ensure that you can log in to the system with appropriate permissions, and that your system meets the hardware and software requirements need to install ActiveMatrix BusinessWorks™.

If you plan to install in an existing installation environment, stop all running processes in *TIBCO_HOME*.

Installation Account

The privileges required to install the product differ for Windows and UNIX platforms. Ensure that you have the appropriate privileges to install on the target platform.

Microsoft Windows

You must have administrator privileges for the machine on which you want to install the software. If you do not have administrator privileges, the installer exits. If you want to install the product on a network drive, ensure that the account used for installation has permission to access the network drive.

Mac and UNIX

Any user, regular user (non-root) or super-user (root), can perform the installation. Use the same user account to install all TIBCO products.

On Unix systems, a graphic environment such as CDE or X Windows is required to run the installer in GUI mode.

Preinstallation Tasks

Preinstallation tasks include the tasks that you must complete before you start the installer, such as ensuring your system meets the installation requirements and customizing your environment for certain platforms.

Download TIBCO ActiveMatrix BusinessWorks™ Software

Download the ActiveMatrix BusinessWorks™ software package for your platform from the TIBCO Software Product Download Site (<https://edelivery.tibco.com/>). Extract the ActiveMatrix BusinessWorks archive file to a temporary directory on the machine on which you run the installer.

Required on Linux and Solaris: Download Eclipse LGPL Software Assembly

If the Eclipse LGPL software assembly (`product_tibco_eclipse_lgpl`) is not present in the temporary directory where you extracted the product archive file, and the machine on which you want to run the ActiveMatrix BusinessWorks installer is not connected to the internet, download the Eclipse LGPL software assembly for your target platform before you install ActiveMatrix BusinessWorks.

Save the downloaded assembly in a temporary directory accessible to the machine on which you run the installer. During installation, provide the location of the temporary directory where the downloaded software assembly is available.

If the machine is connected to the internet, you can download the Eclipse LGPL software assembly file for your target platform from the TIBCO Software Product Download Site during installation. The `product_tibco_eclipse_lgpl_3.7.2.001_OSplatform.zip` is downloaded to the location that you select.

Optional: Download Sunec LGPL Software Assembly

The software requires the Sunec LGPL library (Oracle Elliptic Curve Cryptography (ECC) Library) only if you want to use the ECC ciphers with SSL/TLS configurations. Without the ECC library, the SSL/TLS functionality is still available, but without ECC ciphers.

If the Sunec LGPL software assembly (`product_tibco_sunec`) is not present in the temporary directory where you extracted the product archive file, and the machine on which you run the installer is not connected to the Internet, download the Sunec LGPL software assembly for your target platform before you install ActiveMatrix BusinessWorks.


Save the downloaded assembly in a temporary directory accessible to the machine on which you run the installer. During installation, provide the location of the temporary directory where the downloaded software assembly is available.

If the machine is connected to the Internet, you can download the Eclipse LGPL software assembly file for your target platform from the TIBCO Software Product Download Site

during installation. The `product_tibco_sunec_1.7.0.072_OSplatform.zip` is downloaded to the location that you select.

Required on Red Hat Enterprise Linux (RHEL) or Oracle Linux 8.x and above: Download `libnsl.so.1` Package

By default, the `libnsl.so.1` package is not installed in Red Hat Enterprise Linux or Oracle Linux version 8.x and above. Without this package, no agent can be installed successfully. The `libnsl.so.1` package is required on RHEL or Oracle Linux 8.x and above versions, and you need to install it manually.

 **Note:** RHEL, Oracle Linux, and CentOS have the same kernel version.

To resolve this issue, let your administrator set up a "yum" repository, and then run the following command:

```
yum install libnsl
```

After the successful installation of `libnsl`, you can see `libnsl.so.1` under the `/usr/lib64/` directory.

Hardware and Software Requirements

Review the system memory and disk space requirements before you start the installation.

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

System and Disk Space Requirements

The product readme file specifies the system memory and disk space required for installation. In addition to the disk space in the temporary directory before installation, the installer requires additional space in the temporary directory to copy files during installation. Ensure that sufficient space is available in the directory you want to use as the installation environment, your `TIBCO_HOME`.

Note: If you want to run scripts, make sure that the *TIBCO_HOME* path does *not* contain any spaces, such as: Program Files.

Important: See the readme file for information about the system and disk space requirements, supported operating system platforms and versions, and required patches, if any.

Software Requirements

Before running the installer on a target platform, ensure that the platform is supported and your system meets the software requirements.

Important: Unless indicated otherwise, see the readme file for the supported products and versions.

Required Software

Software	Description
Eclipse components	Required. On some operating system platforms, TIBCO Universal Installer automatically downloads certain Eclipse LGPL components during installation, if necessary. However, on Linux and Solaris platforms, you must download the Eclipse LGPL software assembly for your target platform before installing the software. For more information, see Pre-installation Tasks .
Sunec LGPL	Optional. The software requires the Sunec LGPL library only if you want to use the ECC ciphers with SSL/TLS configurations. Without the ECCL library, the SSL/TLS functionality is still available, but without ECC ciphers. You must download the Sunec LGPL software assembly for your target platform before installing the software. For more information, see Pre-installation Tasks .

Installation

TIBCO provides downloadable product archive files and the products can be installed using TIBCO Universal Installer.

Extract the downloaded product archive file to a temporary directory, and then run the TIBCO Universal Installer executable from that directory.



Note: If installing more than one product, you can extract multiple product archive files to the same temporary directory and then run TIBCO Universal Installer.

Installation Modes and Procedures

Installing in GUI Mode

When you run the installer in GUI mode, the installer presents panels that you can use to choose the installation environment and customize your installation.

Before you begin

If you want to install TIBCO ActiveMatrix BusinessWorks™ Maven Plugin, install Apache Maven from <https://maven.apache.org/download.cgi> and set Maven home in the Environment Variables.

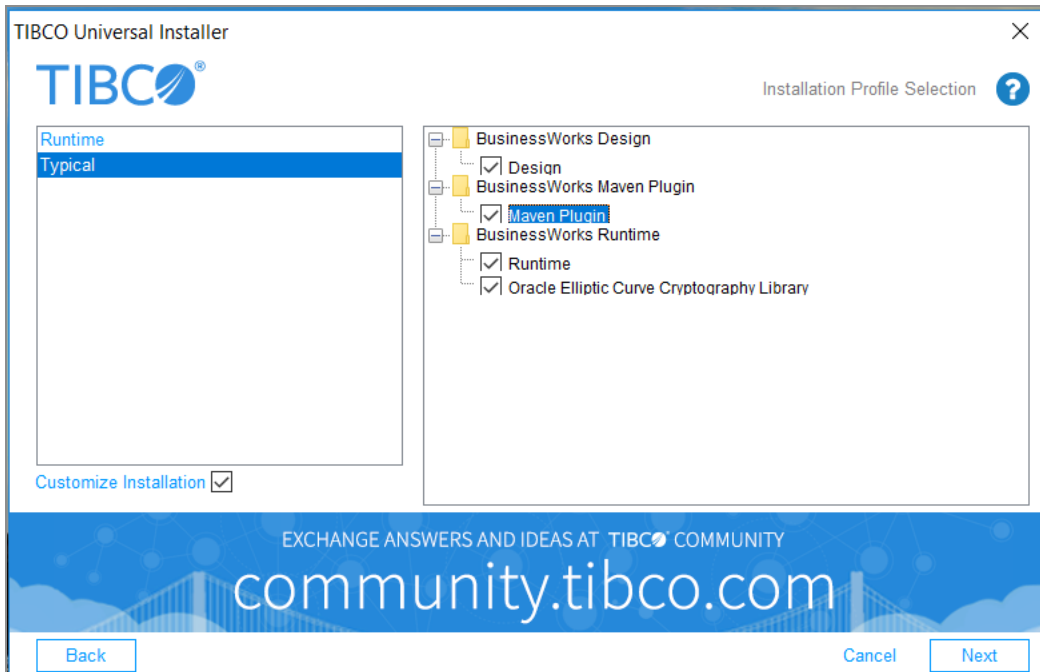
Procedure

1. Run the TIBCOUniversalInstaller executable.
 - On Microsoft Windows: TIBCOUniversalInstaller.exe
 - On Unix: TIBCOUniversalInstaller.bin
 - On Mac OS: TIBCOUniversalInstaller-mac.command
2. On the Welcome screen, click **Next**.
3. Read the license agreement, select **I accept the terms of the license agreement** if you agree to the terms, and click **Next**.
4. Choose to create a new installation environment that is be your *TIBCO_HOME* and specify the path to the new environment. If you want to run scripts, make sure that the *TIBCO_HOME* path does not contain any spaces, such as Program Files. Then click **Next**.

Option	Procedure
Create a	In the Directory field, specify the directory into which the product is installed. The directory cannot be the same as the directory of an existing

Option	Procedure
new TIBCO_ HOME	<p>installation environment.</p> <p>The directory path cannot contain the following special characters:</p> <p># \$ % & * < > ? ` </p> <p>Note: If you want to run scripts, make sure that the <i>TIBCO_HOME</i> path does not contain any spaces, such as: Program Files.</p>
Use an existing TIBCO_ HOME	<p>Select an existing installation environment from the drop-down menu.</p> <p>Note: If you want to run scripts, make sure that the <i>TIBCO_HOME</i> path does not contain any spaces, such as: Program Files.</p> <p>Important: If you are upgrading to the latest version of the software from an earlier version, it is good practice to install the latest version in the same installation environment.</p>

- On the Installation Profile Selection screen, select one or more of the pre-configured profiles, or click **Customize Installation**, and explicitly select the components you want to install. By default, the pre-configured profiles include the **Oracle Elliptic Curve Cryptography Library** (ECCL) component. The software requires the ECCL only if you want to use the ECC ciphers with SSL/TLS configurations. Without the ECCL, the SSL/TLS functionality is still available, but without the ECC ciphers.



- If you want to install TIBCO ActiveMatrix BusinessWorks™ Maven Plugin, select the **Customize Installation** and **Maven Plugin** check boxes and then click **Next**.
 - If you do not plan to use the ECC ciphers, you do not need to download and install the ECCL. Select the check box **Customize Installation** and clear the check box for the **Oracle Elliptic Curve Cryptography Library** component. Then click **Next**.
 - To continue with the default selection, click **Next**.
6. On Linux and Solaris, the design feature requires Eclipse LGPL assembly to be available in the temporary directory prior to installation. For more information, see [Software Requirements](#). The installer prompts the LGPL License Agreement screen for the Eclipse LGPL assembly. Read the license agreement, select **I accept the terms of the license agreement** if you agree to the terms, and click **Next** to proceed.
 7. On the LGPL Assembly Download screen, select one of the following download options and click **Next**.
 - **Download Gnome Binding assembly from TIBCO:** Select this option if you are connected to the Internet or do not want to use a previously downloaded assembly. The assembly is automatically downloaded and stored in the

assemblies subdirectory of the directory where you extracted the installer.

- **Provide the location for the assembly previously downloaded from TIBCO:**
Select this option if you are not connected to the Internet. Click **Browse** to navigate to the directory where the previously downloaded LGPL assembly is stored. Select the directory, and click **Open**.

i Note: Skip this step if the **Oracle Elliptic Curve Cryptography Library** component was not selected in the Installation Profile Selection screen.

8. If you choose to install the Oracle Elliptic Curve Cryptography Library component, the design feature requires the Sunec LGPL assembly to be available in the temporary directory prior to installation. See [Software Requirements](#) for details. The installer prompts the LGPL License Agreement screen for the Sunec LGPL assembly. To download the Oracle Elliptic Curve Cryptography Library, select **I accept the terms of the license agreement**, and click **Next**. If you do not want to download the Oracle Elliptic Curve Cryptography Library, click **Cancel** to exit.
9. On the LGPL Assembly Download screen, select one of the following download options and click **Next**.
 - **Download Oracle Elliptic Curve Cryptography Library assembly from TIBCO:**
Select this option if you are connected to the Internet or do not want to use a previously downloaded assembly. The assembly is automatically downloaded and stored in the assemblies subdirectory of the directory where you extracted the installer.
 - **Provide the location for the assembly previously downloaded from TIBCO:**
Select this option if you are not connected to the Internet. Click **Browse** to navigate to the directory where the previously downloaded LGPL assembly is stored. Select the directory, and click **Open**.
10. On the Pre-Install Summary screen, verify the list of products and components selected for installation, and click **Install**.
11. Verify the Post-Install Summary, click **Finish** to complete the installation process, and close the installer window.

i Note: If you want to install Maven Plug-in after installing TIBCO ActiveMatrix BusinessWorks™ in the GUI mode, double-click the TIBCO Universal Installer file to start installation. Select **Customize Installation** and **Maven Plugin** check boxes and clear the other check boxes to continue the installation of Maven Plug-in.

Installing in Console Mode

When you run the installer in console mode, the installer prompts for values on a console window and you can move through the installation by responding to the prompts. The Console mode can be used to install the software in a non-Windows environment.

Before you begin

- Prepare your system and the installation media before running the installer in console mode.
- If you want to install TIBCO ActiveMatrix BusinessWorks™ Maven Plugin, install Apache Maven from <https://maven.apache.org/download.cgi> and set Maven home in the Environment Variables.

Procedure

1. Open a console window and navigate to the temporary directory where you extracted the product archive file.
2. Run the installer using one of the following commands:

- **On Windows:**

```
Run TIBCOUniversalInstaller -console
```

The installer launches a second console window.

- **On UNIX:**

```
Run ./TIBCOUniversalInstaller.bin -console
```

- **On Mac OS:**

```
Run ./TIBCOUniversalInstaller-mac.command -console
```

3. Complete the installation by responding to the console window prompts, which are similar to those described in the section [Installing in GUI Mode](#). The console also provides an option to return to a previous selection periodically.

i Note:

- If you want to run scripts, make sure that the `TIBCO_HOME` path does *not* contain any spaces, such as: Program Files.
- To install Maven Plugin in the console mode, select the **Customize Installation** and then **Maven Plugin** options.

4. When the installation is completed, press **Enter** to exit the installer.



Note: If you want to install the Maven Plugin after installing TIBCO ActiveMatrix BusinessWorks™ in the console mode, run the installer again. Select **Customize Installation** and then **Maven Plugin** options, and clear the other options to continue the installation of Maven Plugin.

Installing in Silent Mode

When you run the installer in silent mode, the installer does not prompt for your input. Instead, the values specified in a response file are used to complete the installation. You can use a default pre-configured response file or create your own response file.

By default, the installer uses the `TIBCOUniversalInstaller_bwce_<version>.silent` file, which is included in the directory that contains the universal installer.

To customize the silent installer:

- Make a backup copy of the `TIBCOUniversalInstaller_bwce_<version>.silent` file and edit the file itself. You can then run the silent installer with or without the response file argument.

Before you begin

If you want to install TIBCO ActiveMatrix BusinessWorks™ Maven Plugin, install Apache Maven from <https://maven.apache.org/download.cgi> and set Maven home in the Environment Variables.

Procedure

1. Make a copy of `TIBCOUniversalInstaller_bwce_<version>.silent` file and rename

the file, for example, `newfile.silent`.

2. Using a text editor, open the copied file and update the installation location and features to install.

Note: If you want to run scripts, make sure that the `TIBCO_HOME` path does *not* contain any spaces, such as: Program Files.

3. Open a console window, and navigate to the temporary directory where you extracted the product archive file. Run the silent installer using one of the following commands:

- **On Windows:**

```
TIBCOUniversalInstaller.cmd -silent -V responseFile="newfile.silent"
```

- **On UNIX:**

```
TIBCOUniversalInstaller.bin -silent -V responseFile='newfile.silent'
```

- **On Mac OS:**

```
TIBCOUniversalInstaller-mac.command -silent -V  
responseFile='newfile.silent'
```

Note:

- To install Maven Plugin in the silent mode, set Maven Plugin to 'true'.
- If you want to install the Maven Plugin after installing TIBCO ActiveMatrix BusinessWorks™ in the silent mode, run the silent installer again. Set **Maven Plugin** to 'true' and other options to 'false' to continue the installation of Maven Plugin.

Troubleshooting Installation

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

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

Platform	Location
Microsoft Windows	<code>C:\Users\username\.TIBCO\install_timestamp</code>
Linux	<code>user_home_dir/.TIBCO/install_timestamp</code>
macOS	<code>Users/user_home_dir/.TIBCO/install_timestamp</code>

The installer log file captures the following information:

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

To change the location of the installer log file, specify the option `-V logFile="myLogFile"` when you run the installer.

Post Installation Tasks

Post installation tasks are additional tasks that you might have to perform after installation. These tasks are required for certain scenarios and must be performed before you develop your applications or create and configure the runtime objects.

On Ubuntu 22.x: Configure the Environment

To configure the environment on Ubuntu 22.x, perform the following steps:

1. Open the `/etc/gdm3/custom.conf` file.
2. Set the property `WaylandEnable=true` to `WaylandEnable=false` and save the changes.
3. Run the following command:

```
sudo systemctl restart gdm3
```

Upgrading

You can upgrade to a higher version of the software when new features are available or when problems in the software have been fixed. Typical steps include downloading and installing the newer version of the software, and some manual tasks to complete the upgrade. The manual tasks consist of generic tasks required for all versions and some additional tasks that depend on the version you are upgrading to.

i Note: With TIBCO BusinessWorks Container Edition, you do not need to upgrade your existing running applications to higher versions unless you want to leverage a feature or a defect fix which is included in the latest version. Applications of different runtime versions can co-exist in the same environment.

- [Upgrading from Older Version of TIBCO BusinessWorks Container Edition \(2.6.x onwards\) for TIBCO BusinessWorks Container Edition to the latest version](#)
- [TIBCO Business Studio for BusinessWorks Upgrade Manager](#)

Upgrading from Older Version of TIBCO BusinessWorks Container Edition (2.6.x onwards) for TIBCO BusinessWorks Container Edition to the latest version

For design-time upgrade, if you want to install the latest TIBCO BusinessWorks Container Edition version in existing TIBCO_HOME with version 2.5.x, then first install TIBCO BusinessWorks Container Edition 2.6.0 in the same TIBCO_HOME and then upgrade to the latest TIBCO BusinessWorks Container Edition version.

For design-time upgrade, if you have TIBCO BusinessWorks Container Edition 2.6.0 in the TIBCO_HOME, then you can directly upgrade to the latest TIBCO BusinessWorks Container Edition version.

i Note:

- Re-installation of all the TIBCO BusinessWorks Container Edition supported plug-ins is required after upgrading to the latest version, if you are upgrading from TIBCO BusinessWorks Container Edition 2.6.x
- Post upgrade, it is recommended to append the `-clean` argument in the `TIBCOBusinessStudio.ini` file.

Following are the steps for post upgrade to Debug/Run applications for users who are working on an existing workspace:

Procedure

1. In a previously created workspace, right click on an application and select the **Debug/Run Configuration** option.
2. In the Debug/Run Configuration window, right click on **BusinessWorks Application** option and select **New Configuration**.
A new configuration is created. For example, 'BWApplication(1)',(2),....
3. In the New Configuration, click **Debug/Run**.

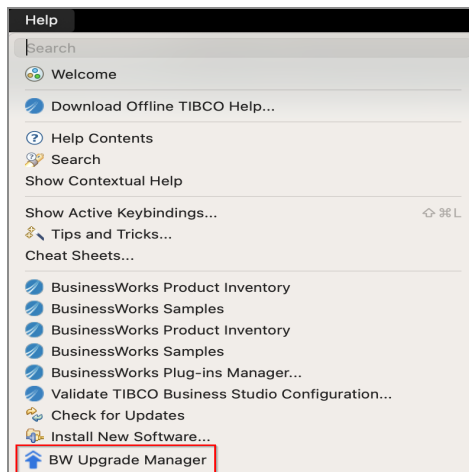
TIBCO Business Studio™ for BusinessWorks™ Upgrade Manager

The purpose of the BusinessWorks™ Upgrade Manager is to upgrade the BusinessWorks™ version within the Studio itself.

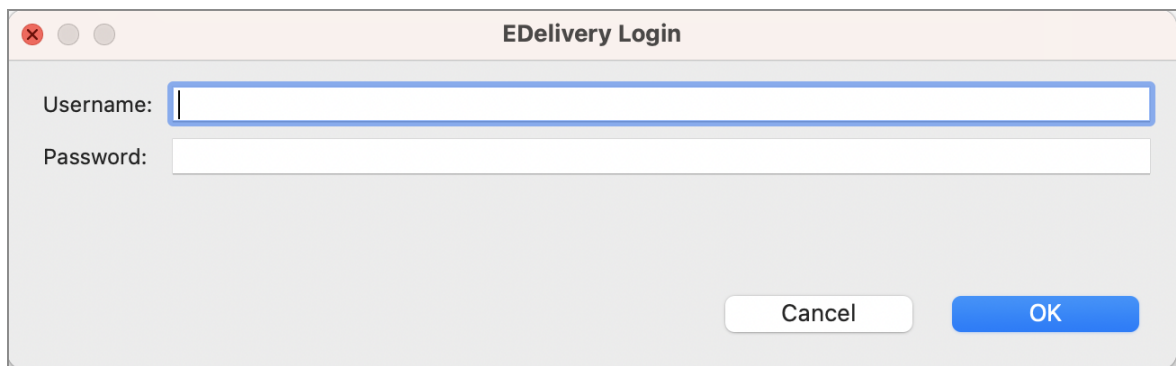
To access the BusinessWorks™ Upgrade Manager, perform the following steps:

Procedure

1. In the Help tab on the Studio window, select **BW Upgrade Manager**.



2. To access the BusinessWorks™ Upgrade Manager, authenticate using an EDelivery Login with your username and password. Click **OK**.



i Note: If you are already on the latest version of BusinessWorks™ Upgrade Manager, a pop-up is shown with a message that you are on the latest version of TIBCO Business Studio for BusinessWorks.

Installing TIBCO BusinessWorks Container Edition Plug-ins

You can install the TIBCO BusinessWorks Container Edition plug-in in the following ways.

Installation method	Description
Installation by Using an Update Site	
Install from the public update site	You can install the plug-in from within TIBCO Business Studio for BusinessWorks by using the public update site.
Install from a local update site or directory	You can install the plug-in from within TIBCO Business Studio for BusinessWorks by using a local update site or a shared directory managed by your organization.
Install using BusinessWorks Plug-ins Manager	You can install the plug-ins from within TIBCO Business Studio for BusinessWorks using the BusinessWorks Plug-ins Manager.
Installation by Using the TIBCO Universal Installer	
Install using the TIBCO Universal Installer package	You can install the plug-ins from within the TIBCO Universal Installer package.

i Note: A new preference **Enable Update Site** is added under **Preferences > BusinessWorks > Validation**. By default, this preference is disabled. On enabling it, the **Quick Fix** option is provided on projects using older versions of plug-ins to upgrade to the later version of plug-ins where the new activities are available.

Uninstalling TIBCO BusinessWorks Container Edition Plug-ins

You can uninstall plug-ins in the following ways.

Uninstallation method	Description
Uninstall plug-ins that were installed using the public update site	You can uninstall the plug-in from within TIBCO Business Studio for BusinessWorks by using the public update site.
Uninstall using BusinessWorks Plug-ins Manager	You can uninstall the plug-ins from within TIBCO Business Studio for BusinessWorks using the BusinessWorks Plug-ins Manager.

Uninstalling the Software

TIBCO Universal Installer can be used to uninstall the software. Using the Universal Installer, you can choose to uninstall either all products installed in the *TIBCO_HOME* directory or just the selected products.

Before you begin

Before uninstalling the product, stop all running AppNodes, BWEngine, and the BWAgents on the machine on which you want to uninstall the product. Also, close TIBCO Business Studio™ for BusinessWorks™.

Procedure

1. To uninstall the product, run the TIBCO Universal Installer (TIBCOUniversalInstaller) from the *TIBCO_HOME/tools/universal_installer/* directory.
2. In the TIBCOInstallationManager screen, select **Uninstall Products from a TIBCO Home Location**, and select the *TIBCO_HOME* location from the drop-down menu. Then click **Next**.
3. Click **Next** on the Welcome screen.
4. On the Uninstallation Type screen, choose the type of uninstall from the following options and then click **Next**.
 - **Custom Uninstall**: Select the products to be removed.
 - **Typical Uninstall**: Removes all the products in the selected *TIBCO_HOME* folder.
5. If you selected **Custom Uninstall**, select the products you want to uninstall on the Product Uninstall Selection screen. Then click **Next**.
6. Review the product to be uninstalled in the Pre-Uninstall Summary screen, and click **Uninstall** to proceed.
7. The installer uninstalls the selected products. When prompted to clean up the */tools* directory, click **Yes, clean it up**.
8. Click **Finish** in the Post Uninstall Summary screen to exit the uninstall wizard.

9. If you have uninstalled all the software under *TIBCO_HOME*, delete the folders under the *TIBCO_HOME* directory.

TIBCO Documentation and Support Services

For information about this product, you can read the documentation, contact TIBCO Support, and join TIBCO Community.

How to Access TIBCO Documentation

Documentation for TIBCO products is available on the [Product Documentation website](#), mainly in HTML and PDF formats.

The [Product Documentation website](#) is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

The following documentation for this product is available on the [TIBCO BusinessWorks™ Container Edition](#) page:

- *TIBCO BusinessWorks™ Container Edition Release Notes*
- *TIBCO BusinessWorks™ Container Edition Installation*
- *TIBCO BusinessWorks™ Container Edition Application Development*
- *TIBCO BusinessWorks™ Container Edition Application Monitoring and Troubleshooting*
- *TIBCO BusinessWorks™ Container Edition Bindings and Palettes Reference*
- *TIBCO BusinessWorks™ Container Edition Concepts*
- *TIBCO BusinessWorks™ Container Edition Error Codes*
- *TIBCO BusinessWorks™ Container Edition Getting Started*
- *TIBCO BusinessWorks™ Container Edition Maven Plug-in*
- *TIBCO BusinessWorks™ Container Edition Migration*
- *TIBCO BusinessWorks™ Container Edition Performance Benchmarking and Tuning*
- *TIBCO BusinessWorks™ Container Edition REST Implementation*
- *TIBCO BusinessWorks™ Container Edition Refactoring Best Practices*

- *TIBCO BusinessWorks™ Container Edition Samples*

How to Contact Support for TIBCO Products

You can contact the Support team in the following ways:

- To access the Support Knowledge Base and getting personalized content about products you are interested in, visit our [product Support website](#).
- To create a Support case, you must have a valid maintenance or support contract with a Cloud Software Group entity. You also need a username and password to log in to the [product Support website](#). If you do not have a username, you can request one by clicking **Register** on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to [TIBCO Community](#).

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