# TIBCO BusinessWorks<sup>™</sup> Container Edition Installation

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### **TIBCO Documentation**

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, 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.

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

- Concepts
- Installation
- · Getting Started
- Application Development
- Bindings and Palettes Reference
- Samples
- Error Codes
- Migration
- Conversion
- REST Implementation
- Application Monitoring and Troubleshooting

#### **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 including product wikis that provide in-depth information, white papers, and video tutorials. In addition, users can submit and vote on feature requests via the Ideas portal. For a free registration, go to <a href="https://community.tibco.com">https://community.tibco.com</a>.

# **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<sup>TM</sup>.

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.

#### **Pre-installation Tasks**

Pre-installation 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 BusinessWorks<sup>™</sup> Container Edition Software**

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

#### Download Eclipse LGPL Software Assembly (Required on Linux and Solaris)

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 will be running the TIBCO BusinessWorks<sup>TM</sup> Container Edition installer is not connected to the internet, download the Eclipse LGPL software assembly for your target platform before you install TIBCO BusinessWorks<sup>TM</sup> Container Edition.

Save the downloaded assembly in a temporary directory accessible to the machine on which you will 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 you select.

# Optional: Download Sunec LGPL (Oracle Elliptic Curve Cryptography Library) Software Assembly

The software requires the Sunec LGPL 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 will run the installer is not connected to the Internet, download the Sunec LGPL software assembly for your target platform before you install TIBCO BusinessWorks<sup>TM</sup> Container Edition.

Save the downloaded assembly in a temporary directory accessible to the machine on which you will 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 you select.

# Optional: Download Sunec LGPL (Oracle Elliptic Curve Cryptography Library) Software Assembly

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 will still be 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 will be running the TIBCO BusinessWorks Container Edition installer is not connected to the internet, you must download the Sunec LGPL software assembly for your target platform before you install TIBCO BusinessWorks Container Edition.

Save the downloaded assembly in a temporary directory accessible to the machine on which you will be running the TIBCO BusinessWorks<sup>™</sup> Container Edition 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 choose to 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 you select.

## **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 (*TIBCO\_HOME*).

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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.

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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 the Linux platform, you must download the Eclipse LGPL software assembly for your target platform before installing the software. See Preinstallation Tasks for details.
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. See Preinstallation Tasks for details.

# 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.



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**

You can run the installer in one of the following modes: GUI, console, or silent. Each mode is supported on all platforms.

#### **GUI Mode**

In GUI mode, invoke the installer by double-clicking the executable file TIBCOUniversalInstaller. The installer presents windows that you can use to select the product components, its location, and so on. Proceed through the installation process by providing your input.

#### Console Mode

In console mode, you invoke the installer from a command prompt or a terminal window, and the installer prompts for values on the console. You can move through the installation process by responding to the prompts. This mode is useful if your machine does not have a Windows environment.

#### Silent Mode

In silent mode, the installer installs without prompting you for information. Silent mode either installs using the default settings or uses a response file that was saved during an earlier installation. In this mode:

- If no response file has been recorded earlier, invoke the installer with the -silent argument to use the default installation parameters.
- If a response file exists, invoke the installer with the arguments -silent -V responseFile="<responseFileName>" to use the values specified in the response file.

# **Installing in GUI Mode**

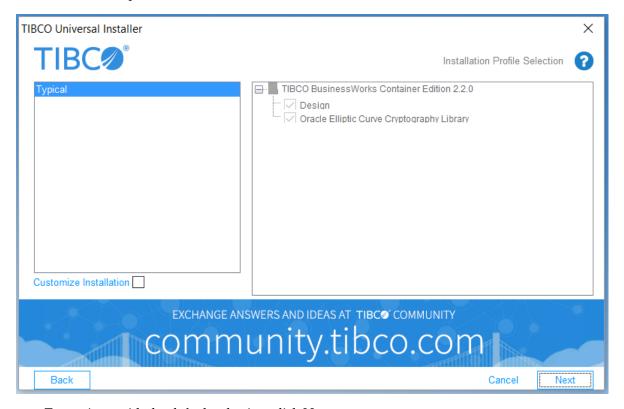
When you run the installer in GUI mode, the installer presents panels that you can use to choose the installation environment and customize your installation.

#### **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 through 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 (which will be your *TIBCO\_HOME*) and specify the directory for the new environment. Then click **Next**.

Option	Procedure	
Create a new TIBCO_HOME	In the <b>Directory</b> field specify the directory into which the product is installed. The directory cannot be the same as the directory of an existing installation environment.	
	The directory path cannot contain the following special characters:	
	# \$ % & * <> ? `	
Use an existing TIBCO_HOME	Select an existing installation environment from the drop-down menu.  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 a new installation environment. See Upgrading the SoftwareUpgrading the Software for details.	

5. 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 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 the ECC ciphers.



- To continue with the default selection, click Next.
- If you do not plan to use the ECC ciphers, you do not need to download and install the ECCL library. Select the checkbox Customize Installation and clear the checkbox for the Oracle Elliptic Curve Cryptography Library component. Then click Next.
- 6. On Linux, the design feature requires Eclipse LGPL assembly to be available in the temporary directory prior to installation. See Hardware and Software Requirements for details. The installer prompts the LGPL License Agreement screen for the Eclipse LGPL assembly. Read through the license agreement, select I accept the terms of the license agreement if you agree to the terms, and click Next to proceed.

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

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 Hardware and 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.

- 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.

# **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. Console mode can be used to install the software in a non-Windows environment.

#### **Prerequisites**

Prepare your system and the installation media before running the installer in console mode.

#### **Procedure**

- 1. Open a console window and navigate to the temporary directory where you extracted the product archive file.
- Run TIBCOUniversalInstaller -console.
   The installer launches a second console window.
- 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.

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

## **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 preconfigured 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.

#### **Procedure**

- 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.
- 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']

# **Upgrading the Software**

GUI, console, or silent mode.

You can upgrade the software when new features are available or when problems in the software have been fixed. A typical upgrade involves downloading and installing the newer version, either a second digit or a third digit change, 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.

#### **Procedure**

- If you are upgrading to a second digit version, install the new software in a new *TIBCO\_HOME* directory. If you are upgrading to a third digit version, you can either install the software in a new *TIBCO\_HOME* directory, or install the software in an existing *TIBCO\_HOME*.
   Follow the instructions in <u>Installation</u> to install the software in a new *TIBCO\_HOME* directory using
- 2. Import the TIBCO Business Studio<sup>™</sup> Container Edition projects to a new workspace.

  After installing the latest version of the software, use a new TIBCO Business Studio<sup>™</sup> Container Edition workspace when developing applications or modules. To use projects created in the older version, import the projects to the new workspace using the **File > Import...** menu in TIBCO Business<sup>™</sup> Studio Container Edition.

Reusing an existing workspace with the newer version of the software makes that workspace unusable with the older version of the software.

Import the runtime artifacts to the new environment.
 By default, the runtime components are installed under the TIBCO\_HOME/bwce/<new\_version> directory.



This step is applicable to second digit upgrades only.

# **Troubleshooting Installation**

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

#### **Installer Log File**

The installer log file captures information such as:

- Environment details such as 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

The installer log file, tibco\_universal\_installer.username\_install.log is available in the following locations:

- Windows: C:\Users\username\.TIBCO\install\_timestamp
- Linux: user\_home\_dir/.TIBCO/install\_timestamp

To change the location of the installer log file, specify the option -*V logFile*="*myLogFile*" when running the installer.

# 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.

#### **Prerequisites**

Before uninstalling the product, stop the TIBCO BusinessWorks<sup>™</sup> Container Edition engine and the bwagents on the machine on which you want to uninstall the product. Also, close TIBCO Business Studio<sup>™</sup> Container Edition.

#### **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.