

# **TIBCO® Mainframe WebUI Installation**

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# TIBCO Documentation and Support Services

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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-mainframe-webui>. To directly access documentation for this product, double-click the following file:

`TIBCO_HOME/release_notes/TIB_mainframewebui_version_docinfo.html`

`TIBCO_HOME` is the top-level directory in which TIBCO products are installed:

- On Windows platforms, the default `TIBCO_HOME` is `C:\tibco`.
- On UNIX platforms, the default `TIBCO_HOME` is `/opt/tibco`.
- On Mac platforms, the default `TIBCO_HOME` is `/usr/tibco`.

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

- *TIBCO Mainframe WebUI Installation*
- *TIBCO Mainframe WebUI User's Guide*
- *TIBCO Mainframe WebUI 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>

# Installer Overview

TIBCO Universal Installer is used to install and uninstall TIBCO Mainframe WebUI.

## 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 presents panels by using which you can select a product, product location, and so on. To invoke the installer in GUI 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 Components

Different installation components are associated with different functions. Using the installer, you can select the components during the installation.

The following installation component is available for the product:

Component	Description
Mainframe WebUI	TIBCO Mainframe WebUI is an out-of-the-box lightweight, agile, and user-friendly component that adds value and insight to your mainframe and TIBCO mainframe integrations.

## Installation Profiles

One installation profile is available for Mainframe WebUI.

**Typical** : When this profile is selected, the installation component is installed. By default, **Typical** is selected.



You can select the **Customize Installation** check box for selecting the components that you want to install.

## Installer Packages

The installer adds a Windows program group for Mainframe WebUI.

Locate the appropriate installation package for your platform on the distribution DVD or from the TIBCO product download site at <https://edelivery.tibco.com/>. The package names specify the related operating system and hardware.

See the readme file for more details regarding supported platforms or browsers.

## Directory Structure

There are several subdirectories under the Mainframe WebUI installation directory. The following table lists these subdirectories.

Subdirectory	Content
bin	The executable files and shared libraries, that is, dynamic-link library (DLL) files, which are required for running the Mainframe WebUI programs.
conf	The configuration files for Tomcat.
lib	The Java archive (JAR) files for the Tomcat programs in Mainframe WebUI.
logs	The saved log files.
temp	The Tomcat temporary files.
webapps	The Tomcat Web applications.
work	The Tomcat work files.

# Installation Requirements

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

## Installation Account

To install on Microsoft Windows, Linux, or on Mac OS, you must have appropriate privileges. Privileges differ for various platforms.

Platform	Account Privileges
Microsoft Windows	Only users with administrator privileges can install the product. If you do not have administrator privileges, the installer automatically exits.  To install the product on a network drive, ensure that the account used for installation has permission to access the network drive.
Linux	Any type of user, regular (non-root) user and super-user (root), can perform the installation.  A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.
Mac OS	Any type of user, regular (non-root) user and super-user (root), can perform the installation.

## System Requirements

Ensure that you meet all the system requirements before installing the product.

### Platform

Before you run the installer, ensure that the appropriate platform is supported. See the `readme` file for information regarding supported operating system platforms, versions, and the required patches.

### Disk Space

The installer requires space in the temporary directory before installation, and additional space in the temporary directory for running the installer. Ensure that sufficient space is available in the directory that you want to use as the installation environment.



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 Memory

See the `readme` file for the required system memory.

### Software

Ensure that you have installed the required software before you run the installer. See the `readme` file for supported products and versions.

The following are useful TIBCO products.

Software	Description
TIBCO Rendezvous	Required only if Mainframe WebUI uses Rendezvous (RV) as transport to communicate with TIBCO Mainframe Service Tracker.
TIBCO Substation ES	Required. This product allows Mainframe WebUI to interact with the Substation ES Administration Interface. Install on a mainframe machine.
TIBCO Mainframe Service Tracker	Optional. This product allows Mainframe WebUI to subscribe to the z/OS-related messages published by TIBCO Mainframe Service Tracker. Install on a mainframe machine.
TIBCO Mainframe RED	Optional. This product allows Mainframe WebUI to interact with the Mainframe RED Hub address space administration. Install on a mainframe machine.

The following is the useful third-party product.

Software	Description
Java Runtime Environment (JRE)	Required. Mainframe WebUI requires JRE 1.7.0. A JRE installer is embedded in the TIBCO Mainframe WebUI installer. When you install TIBCO Mainframe WebUI, JRE is also installed if a required version is not found.



# Installation

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This product can be installed in GUI, console, or silent mode.

Ensure that you meet all the requirements described in the [Installation Requirements](#) section.



You can install a new version of Mainframe WebUI over an existing version.

## Installing in GUI Mode

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

### Prerequisites

Before installation, decide whether you want to run in local or server mode. It is good practice to run in server mode because you only have to install and maintain one copy for all browsers.

To run in server mode, have your Apache Tomcat (referred to as Tomcat later in this document) HTTP Server and Mainframe WebUI reside on a common server, and point your browser to the URL of the common server.

### 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 or password, contact TIBCO Technical Support.
2. Extract the content of the package to a temporary directory, and then navigate to the temporary directory.
3. Start the installation in one of the following ways:
  - On Microsoft Windows, double-click `TIBCOUniversalInstaller-x86-64.exe`.
  - On Linux, run `./TIBCOUniversalInstaller-platform_acronym.bin`.
  - On Mac OS, double-click `TIBCOUniversalInstaller-mac.command`.
4. In the Welcome dialog, click **Next**.
5. In the TIBCO Mainframe WebUI 2.2.0 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, do either of the following tasks:
  - Click **Create a new TIBCO\_HOME** to install the product into a new environment, and specify the following properties:
    - **Directory**: the directory into which the product is installed. Type a path, or click **Browse** to specify the path, or accept the default location.
    - **Name**: identifies the installation environment.
  - Click **Use an existing TIBCO\_HOME** to install the product into an existing environment. Select the environment from the list. In this case, the product is installed into the `TIBCO_HOME` directory where TIBCO Rendezvous is installed.
7. In the Installation Profile Selection dialog, ensure that the **Typical** installation profile is selected, and then click **Next**.

See [Installation Components](#) for more details.



When you install Mainframe WebUI for the second time onwards without uninstalling the existing version, a warning message is displayed before [Step 8](#). For best results, click **YES** to reinstall it.

8. In the Mainframe WebUI Server Config dialog, do either of the following tasks:
  - Click **Yes, use the customized server on port 60080.** > **Next**.
  - Click **No, use the default server on port 8080.** > **Next**.

The TIBCO default port for Tomcat is 60080. The Tomcat default port is 8080.
9. In the Mainframe WebUI Application Selection dialog, select one or all the following features to install, and then click **Next**.
  - **Substation Operations:** select this check box to interact with the Substation ES Administration Interface and issue Substation ES operational commands.
  - **Substation Configuration:** select this check box to configure Substation ES entities and services.
  - **Mainframe RED Operations:** select this check box to execute Mainframe RED operational commands.
  - **Mainframe Monitoring using TIBCO Tracker:** select this check box to receive information from a TIBCO Mainframe Service Tracker instance.
10. In the Pre-Install Summary dialog, review the list of products selected for installation. Click **Next**.
11. In the Post Install Summary dialog, review the list of installation information. Click **Finish** to complete the installation process and exit the 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. Run one of the following commands to start the installation:
  - On Microsoft Windows: `TIBCOUniversalInstaller.cmd -console`
  - On Linux: `./TIBCOUniversalInstaller-platform_acronym.bin -console`
  - On Mac: `./TIBCOUniversalInstaller-mac.command -console`

A second command line is displayed.
5. Respond to the messages on the command line. The installation options are the same as GUI Mode. See [Installing in GUI Mode](#) for more details.
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-mainframewebui_version.silent` is packaged with TIBCO Universal Installer. Before starting 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 or password, contact TIBCO Technical Support.
2. Extract the content of the package to a temporary directory.
3. Navigate to the temporary directory to which you extracted the installation package, and then open the `TIBCOUniversalInstaller-mainframewebui_version.silent` file.
4. Update the response file directly, or make a copy of the response file first and then update the copied file.
5. On a command line, navigate to the temporary directory to which you extracted the installation package.
6. 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"]`
  - On Mac: `./TIBCOUniversalInstaller-mac.command -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 this product by using TIBCO Universal Installer in GUI or console mode.



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

## Uninstalling in GUI Mode

By using TIBCO Universal Installer to uninstall the product 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-x86-64.exe`.
  - On Linux, run `./TIBCOUniversalInstaller-platform_acronym.bin`.
  - On Mac OS, double-click `TIBCOUniversalInstaller-mac.command`
3. In the TIBCO Installation Manager dialog, select **Uninstall Products from a TIBCO Home Location**.
4. In the **TIBCO Home Location** field, select the *TIBCO\_HOME* in which the product is installed. 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 products you want to remove, and then click **Next**.
8. In the Pre-Uninstall Summary dialog, review the products to be uninstalled, and then click **Uninstall**.
9. In the Post Uninstall Summary dialog, click **Finish** to complete the uninstallation process and exit the 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. Run the following command to start the uninstallation:

- Microsoft Windows: `TIBCOUniversalInstaller-x86-64.exe -console`
- Linux: `./TIBCOUniversalInstaller-platform_acronym.bin -console`
- Mac: `./TIBCOUniversalInstaller-mac.command -console`

A second command line is displayed.

3. Respond to the messages on the command line. The uninstallation process is similar to that of GUI mode.

See [Uninstalling in GUI Mode](#) for more details.

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

## Connection Types and Configuration

Mainframe WebUI supports two types of connections: TCP and Rendezvous. Multiple Mainframe WebUI browsers can share a Tomcat server. Alternatively, you can have a dedicated Tomcat server running on your PC for its browsers.

### Supported Options

The following are the supported options in Mainframe WebUI for the available connection types:

Connectivity	z/OS Tracking	Substation ES Operation	Mainframe RED Hub Operation
TCP	No	Yes	Yes
Rendezvous	Yes	No	No

### TCP

Mainframe WebUI can communicate with the Substation ES Administration interface and the Mainframe RED Hub interface through the TCP transport.

### Rendezvous Daemon

Mainframe WebUI can communicate with the Tracker server through the Rendezvous transport, which you can run on the same machine or within the same network as Mainframe WebUI.

However, for Mainframe WebUI to function correctly, you must install Rendezvous on the same machine that runs the Tomcat server. For details on Rendezvous, see *TIBCO Rendezvous Administration*.

## Tracing Option

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Mainframe WebUI provides an option to enable tracing message logging. The tracing feature records useful real-time information for WebUI activities.

You can enable or disable the tracing by setting the **tracing.enabled** parameter in the `config.properties` file. The output of the trace messages is displayed on the console.

To turn on tracing:

1. Stop the Tomcat server.
2. Optional: Close the WebUI browser.
3. Navigate to the `TIBCO_HOME\mainframe\WebUI\version\tomcat\webapps\MF_WebUI\` directory.
4. Open the `config.properties` file.
5. Set `tracing.enabled=true`.
6. Save and close the file.
7. Restart the Tomcat server.



You can turn off tracing either by setting `tracing.enabled = false` or by removing the setting `tracing.enabled = true` from the configuration property file.

# Installation Logging

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

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

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

The installer log file captures the following information:

- Installation home details 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

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