TIBCO FTL®

Installation

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About this Product

TIBCO® is proud to announce the latest release of TIBCO FTL® software.

The release is the latest in a long history of TIBCO products that leverage the power of Information Bus® technology to enable truly event-driven IT environments. TIBCO FTL software is part of TIBCO Messaging®. To find out more about TIBCO Messaging software and other TIBCO products, please visit us at www.tibco.com.

Product Editions

TIBCO Messaging is available in a community edition and an enterprise edition.

TIBCO Messaging - Community Edition is ideal for getting started with TIBCO Messaging, for implementing application projects (including proof of concept efforts), for testing, and for deploying applications in a production environment. Although the community license limits the number of production processes, you can easily upgrade to the enterprise edition as your use of TIBCO Messaging expands.

The community edition is available free of charge. It is a full installation of the TIBCO Messaging software, with the following limitations and exclusions:

- Users may run up to 100 application instances or 1000 web/mobile instances in a production environment.
- Users do not have access to TIBCO Support, but you can use TIBCO Community as a resource (community.tibco.com).

TIBCO FTL in the Community Edition has the following additional limitations and exclusions:

- Excludes transport bridges
- Excludes the RDMA transport protocol
- Excludes disaster recovery features
- Excludes customizable dashboards and monitoring gateway

TIBCO Messaging - Enterprise Edition is ideal for all application development projects, and for deploying and managing applications in an enterprise production environment. It

includes all features presented in this documentation set, as well as access to TIBCO Support.

Preparing for Installation

Complete these steps before you begin to install TIBCO FTL® software.

Procedure

1. If you are upgrading from an earlier release of TIBCO FTL software, first read "Upgrade Migration to a New Release" in TIBCO FTL Administration.
2. Refer to the readme file. Verify that the product supports your platforms and versions.

   You can find the readme file on the TIBCO download site and on the product distribution, in the same directory as the installation files.
3. Read the TIBCO Software Inc. License Agreement included with the product.
4. Read the sections in this book that pertain to your operating system platforms.
5. Verify that the host computer satisfies the requirements for installation, and that prerequisite software is already installed. For details, see Installation Requirements.

Installation Requirements

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

See the Readme file for supported platforms.

Installer Account

Platform	Account Privileges
Microsoft Windows	You must have administrator privileges for the machine on which this product is installed. Otherwise, the installer exits. To continue, either log out of the system and log in as a user with the required privileges, or request that your system administrator assign the privileges to your account.

Platform	Account Privileges
	To install the product on a network drive, ensure that the account used for installation has permission to access the network drive.
Linux	For system-based installers, you need `sudo` privileges for installation. However, for extracting TAR files, you do not need special privileges.
macOS	Administrator privileges are required for installation.

Platform-Specific Instructions

Before using the installer to install or uninstall the product, read the topics that pertain to your operating system platform.

Guidelines for Linux

See the Readme file for supported platforms.

Installer Privileges

To install this product you must have `sudo` privileges.

Installation Packages

TIBCO FTL software is available for the Linux operating systems in the following packages:

Community Edition

`TIB_ftl-ce_6.9.1_linux_x86_64.zip`

Enterprise Edition

`TIB_ftl_6.9.1_linux_x86_64.zip`

Guidelines for macOS

See the Readme file for supported platforms.

Installer Privileges

To install this product you must have administrator privileges.

Installation Packages

TIBCO FTL software is available for the macOS operating systems in the following packages:

Community Edition

`TIB_ftl-ce_6.9.1_macos_x86_64.pkg`

Enterprise Edition

`TIB_ftl_6.9.1_macos_x86_64.pkg`

Guidelines for Microsoft Windows

See the Readme file for supported platforms.

General Assembly Cache

The `TIBCO.FTL` and `TIBCO.FTL.GROUP` assemblies, and their associated policy DLLs all install into the Windows general assembly cache (GAC). Application programs in the .NET framework use classes from these assemblies.

Installation Packages

TIBCO FTL software is available for the Windows operating systems in the following packages:

Community Edition

`TIB_ftl-ce_6.9.1_win_x86_64.exe`

Enterprise Edition

`TIB_ftl_6.9.1_win_x86_64.exe`

Installation

You can install this product on any operating system using platform-native installers.

Installing on Linux

Use the platform-native installer to install the product on Linux platforms. The installer provides a collection of RPM and DEB packages.

Before you begin

On SUSE Linux, ensure that `libjvm` and `rdma` libraries are already installed.

Procedure

1. Download the installation package.

   Download the package for *either* the community edition or the enterprise edition.

2. Extract the TIBCO FTL archive file to a temporary directory.

Edition	Command
Community Edition	`unzip TIB_ftl-ce_6.9.1_linux_x86_64.zip`
Enterprise Edition	`unzip TIB_ftl_6.9.1_linux_x86_64.zip`

   These extraction commands place installation RPM, DEB, and TAR artifacts in a temporary directory, named TIB_ftl_6.9.1 within the current directory.

3. Navigate to the temporary directory.

   ```
   cd TIB_ftl_6.9.1
   ```

4. Install using one of these commands, depending on the Linux platform variant. (You can run the commands without 'sudo' if you have the privileges.)

Linux Variant	Command
Red Hat, Centos , Fedora	`sudo yum install -y rpm/*.rpm`
Debian, Ubuntu	`sudo dpkg -i deb/*.deb`
SUSE	`sudo zypper install rpm/*.rpm` **Note:** If you encounter issues with dependencies, you can safely ignore those dependencies and proceed with the installation.
Other Linux variants	If your Linux variant does not include `yum`, `dpkg`, or `zypper`, you can use `tar`. `for f in tar/*; do tar zxfv $f; done` **Tip:** You must have root privileges to write to the root `/` directory.

The installation utilities `yum`, `dpkg`, or `zypper` install TIBCO FTL software under `/opt/tibco/`.

In contrast, the archive utility `tar` installs TIBCO FTL software under `./opt/tibco/`.

A complete installation includes the following packages:

- FTL thirdparty
- FTL runtime
- FTL java

- FTL servers
- FTL development
- FTL enterprise (Enterprise Edition only)
- FTL monitoring (Enterprise Edition only)
- FTL OSGI bundle

5. Optional. You may delete the temporary directory.

Verifying the Installation on Linux

The installation can be verified by looking for the last RPM or Debian file installed.

Linux Variant	Command
Redhat	`yum list installed | grep "ftl"`
Debian	`dpkg-query -l | grep "ftl"`
SUSE	`zypper se | grep "ftl"`

Note: Alternatively, examine the log files at `/var/log`.

Optional Post-Installation Steps on Linux

This post-installation task on Linux is optional. Consider completing this task only if you used an RPM-based or a DEB-based installer, and only if you need symbolic links from `/usr/bin`, `/usr/lib`, and `/usr/include` to the TIBCO FTL binaries and libraries.

If you create these symbolic links, then you do not have to add `/opt/tibco/ftl/6.9/bin` to the `PATH`, nor add `/opt/tibco/ftl/6.9/lib` to the `LD_LIBRARY_PATH`.

Procedure

1. Navigate to `/opt/tibco/ftl/6.9/scripts`.
2. Run the post-installation scripts.

```
sudo post_install/*_install.sh
```

Installing on macOS

To install FTL on macOS, complete these steps.

Procedure

1. Download the installation archive package.

   Download the package for *either* the community edition or the enterprise edition.
2. Extract the installer package to a temporary directory.
3. Run the installer.

   Double-click the installation package icon.

   Follow the installation prompts to complete the process. Provide your password if requested.

Result

TIBCO FTL is installed in `/opt/tibco/ftl/6.9`. Installation also creates a symbolic link to that directory from `/opt/tibco/ftl/current-version`.

Installing on macOS in Silent Mode

To silently install TIBCO FTL software on macOS platforms, complete this task.

Procedure

1. Download the installation archive package.

   Download the package for *either* the community edition or the enterprise edition.

2. Open a terminal window and navigate to the directory in which the installer archive package is located.

3. Run the installer silently.

   ```
   sudo installer -pkg <package_name> -target /
   ```

   The package name depends on the edition of TIBCO FTL that you downloaded.

Edition	Command
Community Edition	TIB_ftl-ce_6.9.1_macos_x86_64.pkg
Enterprise Edition	TIB_ftl_6.9.1_macos_x86_64.pkg

Installing on Windows

To install FTL on Windows platforms, complete these steps

Procedure

1. Ensure that the .NET framework is properly installed and up to date.
2. Download the installation package.

   Download the package for *either* the community edition or the enterprise edition.

3. Run the installer.

   Double-click the installation package icon.

   Follow the installation prompts to complete the process.

Result

TIBCO FTL is installed in `C:\tibco\ftl\6.9`. If the .NET framework is properly installed, then installing TIBCO FTL automatically registers the FTL libraries with the Windows GAC.

Installing on Windows in Silent Mode

To silently install TIBCO FTL software on Windows platforms, complete this task.

Procedure

1. Download the installation archive package.

   Download the package for *either* the community edition or the enterprise edition.

2. Open a terminal window and navigate to the directory in which the installer archive package is located.

3. Run the installer silently.

   ```
   <package_name> /S /D=<target_installation_folder>
   ```

   The package name depends on the edition of TIBCO FTL that you downloaded.

Edition	Command
Community Edition	TIB_ftl-ce_6.9.1_win_x86_64.exe
Enterprise Edition	TIB_ftl_6.9.1_win_x86_64.exe

   You can install specific installation types by specifying `/type=<type>`. The following types are available:

   - Development
   - Servers
   - Enterprise (Enterprise Edition only)
   - Monitoring (Enterprise Edition only)
   - Full (the default type)

   If you specify `/type`, you must ensure that `/D` is the final parameter.

Try It Out: Sample Applications

Go to the `samples` directory for additional references and to try out FTL:

- Linux/macOS: `/opt/tibco/ftl/<version>/samples`
- Windows: `c:\tibco\ftl\<version>\samples`

These files are in the `samples` directory and on the documentation site:

- Quick Start: Try out publish and subscribe.
- Getting Started: Try out persistence, queuing, request/reply, and performance statistics.
- Readme: Platforms, third-party software, requirements, and support.

The directory also includes sample applications to use in the Quick Start, Getting Started, and for your general reference.

Uninstallation

You can uninstall this product using the following steps, which are specific to the operating system platform.

Uninstalling on Linux

Uninstall the RPM or Debian packages.

Procedure

1. If you used post-installation scripts after installing the RPM or Debian packages, you must perform the following steps to remove the symbolic links:
   a. Navigate to `/opt/tibco/ftl/6.9/scripts/post_install` folder.
      (Substitute the release number corresponding to the installed packages.)
   b. Run the following commands:

```
sudo ./development_alternatives_uninstall.sh
sudo ./java_alternatives_uninstall.sh
sudo ./runtime_alternatives_uninstall.sh
sudo ./servers_alternatives_uninstall.sh
```

2. List the packages to uninstall.

Linux Variant	Command
Redhat	`yum list installed | grep "ftl"`
Debian	`dpkg-query -l | grep ftl`

Linux Variant	Command
SUSE	`zypper se | grep "ftl"`

Verify the packages:

- FTL OSGI bundle
- FTL monitoring (Enterprise Edition only)
- FTL enterprise (Enterprise Edition only)
- FTL development
- FTL servers
- FTL java
- FTL runtime
- FTL third party

3. Uninstall the packages.

Linux Variant	Command
Redhat	`sudo yum remove -y tib_ftl_6.9*`
Debian	`sudo apt-get remove -y tib_ftl_6.9*`
SUSE	`sudo zypper rm tib_ftl_6.9*`

Uninstalling on macOS

To uninstall from a macOS platform, complete this task.

Procedure

1. Navigate to `/opt/tibco/ftl`.
2. Delete the version-specific directory `6.9`.
3. Delete the symbolic link to that directory, `current-version`.
4. Inform macOS that the packages are no longer installed.

   ```
   for i in $(sudo pkgutil --pkgs='com.tibco.ftl.*-release_num'); do sudo
   pkgutil --forget $i; done
   ```

   release_num indicates the three-digit product release number that you are uninstalling, for example, 6.9.1.

   The enterprise and monitoring packages are relevant only when uninstalling TIBCO FTL - Enterprise Edition. They are not included in TIBCO FTL - Community Edition.

Uninstalling on Windows

To uninstall from a Windows platform, use the Windows control panel.

Note: These steps are written for Windows 10. The exact labels, commands, and navigation could vary on other versions of Windows.

Remember:

To completely uninstall the product you must use this procedure. Deleting the installation directory is not sufficient, and could cause instability of future installations. Complete uninstallation is required whether upgrading to a different version or a different edition of the product.

Procedure

1. Open the Windows "Apps & features" panel.

   To navigate, open the Settings panel, click System, then click "Apps & features."
2. Select the product to uninstall:
   - TIBCO FTL® - Enterprise Edition 6.9.1

- TIBCO FTL® - Community Edition 6.9.1

3. Click **Uninstall**.

Uninstalling on Windows in Silent Mode

To silently uninstall TIBCO FTL software on Windows platforms, complete this task.

Procedure

1. In a terminal window, navigate to the product installation directory.
2. Run the uninstall command.

```
Uninstall.exe /S
```

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 TIBCO Product Documentation website, mainly in HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product.

Product-Specific Documentation

Documentation for TIBCO FTL® is available on the TIBCO FTL® Product Documentation page.

TIBCO FTL® Documentation Set

The following documents can be found on TIBCO FTL Product Documentation as Web Help or PDFs.

- *Installation*: Read this guide before installing or uninstalling the product.
- *Concepts*: Review this guide for an introduction to FTL software fundamentals.
- *Quick Start*: Use this guide to quickly start FTL and send and receive a message.
- *Getting Started*: Use the guide to set up, start, and run various TIBCO FTL sample programs that demonstrate typical messaging functionality.
- *FTL Tutorials*: Use this guide for a step-by-step approach to build TIBCO FTL applications. You will use options and properties, exception handling, programming models, and the user interface for configuration and monitoring.
- *Administration:* Administrators read this manual to learn how to use the FTL server, its interfaces, and its services, and how to define a realm. Developers can also benefit from understanding FTL software from an administrator's perspective.

- *Development*: Application developers and architects read this manual to understand concepts relevant in any supported programming language.
- *Monitoring*: Administrators read this manual to learn about monitoring and metrics. Developers read this manual to learn how an application can subscribe to the stream of monitoring data.
  Important: Use TIBCO Messaging Monitor for FTL in place of the FTL monitoring component. As of FTL 6.9.0, the FTL Monitoring component (monitoring directory) including Grafana and tibmongateway are deprecated. Also, as of FTL 6.9.0, monitoring metric types are deprecated. See the Release Notes, Deprecated and Removed Features for a complete list.
- *Shifting to FTL:* This manual contrasts TIBCO FTL with TIBCO Enterprise Message Service™, and offers suggestions to smooth your transition to TIBCO FTL. Application developers, architects, and administrators familiar with TIBCO Enterprise Message Service read this manual.
- *Security*: This manual contains security-related tasks for administrators and security tips for application developers.
- *API Documentation*: Application developers use this documentation to learn the details of the FTL API in specific programming languages. This is available as Web Help only.
- *TIBCO FTL Glossary:* The glossary contains brief definitions of key terms used in all other parts of the documentation set.
- *Release Notes:* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

Additional information resources can be found, after file extraction, in the samples directory. These include a Getting Started guide, Tutorials, readme.txt files, and sample applications.

Updated Resources on TIBCO Community

Supplemental resources are now distributed at the TIBCO FTL Community Wiki in the Reference Info tab. You can always find the latest versions of these resources in that location.

Those resources include *TIBCO FTL Getting Started Guide* and *TIBCO FTL Tutorials*. They also include sample FTL server configuration files and sample realm definition files.

TIBCO eFTL™ Documentation Set

TIBCO eFTL software is documented separately. Administrators use the FTL server GUI to configure and monitor the eFTL service. For information about these GUI pages, see the documentation set for TIBCO eFTL software.

How to Contact TIBCO Support

Get an overview of TIBCO Support. You can contact TIBCO Support in the following ways:

- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support website.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to TIBCO Support website. If you do not have a user name, 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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