TIBCO Cloud Bus™

Cloud Bus Enablement On-Premises

Installation Guide

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Two-Second Advantage®

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Preface

TIBCO is proud to announce the latest release of TIBCO Cloud Bus™ an Integration Platform as a Service (iPaaS) solution.

TIBCO Cloud Bus™ can also be deployed on-premises as an integrated platform solution that provides you and your enterprise with TIBCO Silver Fabric and more than twenty TIBCO Cloud-ready, scalable, enterprise application distributions, plug-ins, and enablers that are well-suited to meet your business requirements.

TIBCO Cloud Bus provides rapid and elastic provisioning for your on-premises or private cloud integrated platform and project scaling.

TIBCO Cloud Bus accelerates the time to value of SaaS solutions and supports on-demand deployment. Ready-to-use templates speed integration with SaaS applications, enterprise applications, and social networks. You and your customers will benefit from seamless application availability and real-time responses to changes in your business environment.

To find out more about how TIBCO Cloud Bus™ and other TIBCO products please visit us at www.tibco.com.

Software that is available for use with TIBCO Cloud Bus™ (and TIBCO Silver® Fabric) can run on different Engines using different operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme files for the availability of the product software versions on specific operating system platforms.

Topics

- Changes from the Previous Release of this Guide, page iv
- Related Documentation, page iv
- Typographical Conventions, page vi
- Connecting with TIBCO Resources, page ix

Changes from the Previous Release of this Guide

TIBCO Cloud Bus™ Enablement On-Premises Installation Guide is essentially unchanged from the previous release of this guide.

Related Documentation

TIBCO Documentation

Using the TIBCO Cloud Bus™ Enablement On-Premises Installation Guide will install a large number of TIBCO product distributions, plug-ins, and enablers. You will be best served by the documentation specific to the products you will be using in your integrated platform.

These product documents are all accessible for viewing or for download from https://docs.tibco.com.

TIBCO Silver Fabric Documentation

The following documentation is included with the installation of TIBCO Silver Fabric. To view the guides installed with TIBCO Silver Fabric, log in to the TIBCO Silver Fabric Administration Tool and go to **Admin > Documentation**. The PDF files are also on the Broker at:

```
SILVERFABRIC_HOME/webapps/livecluster/admin/docs
```

The following documents form the Silver Fabric documentation set:

- *TIBCO Silver Fabric Release Notes* Describes new features for this release, changes in functionality, migration and compatibility notes, closed and known issues.
- *Introducing Silver Fabric* Contains an introduction to Silver Fabric, including definitions of key concepts and terms, such as Enablers, Stacks, Components, Engines, and Brokers. Read this first if you are new to Silver Fabric.
- *Silver Fabric Installation Guide* Covers installation of Silver Fabric for Windows and Unix, including Brokers, Engines, and pre-installation planning.
- *Silver Fabric Cloud Administration Guide* Covers Silver Fabric cloud administration, configuration of Engines, Enablers, and Components, and

configuration and use of Skyway. Also covers security, general maintenance, performance tuning, and database administration.

- *Silver Fabric Developer's Guide* Developer-related topics such as logging and debugging, using the Admin API, and the Enabler SDK.
- *Silver Fabric User's Guide* Covers Silver Fabric use and operation, including management of Engines, Enablers, Components, and Stacks.
- *Silver Fabric Skyway User's Guide* Covers usage of Skyway, which enables users to quickly and easily provision and manage their Silver Fabric Stacks.
- *Silver Fabric Tomcat Enabler Guide* Covers installation and configuration of applications run on the Tomcat Enabler.
- *Silver Fabric Command Line Enabler Guide* Covers installation and configuration of applications run on the Command Line Enabler.

These documents are all accessible for viewing or for download from:

https://docs.tibco.com.

Other Documentation and Help

Additional help and information is available from the following sources:

- *Silver Fabric Administration Tool Help* Context-sensitive help is provided throughout the Silver Fabric Administration Tool by clicking the Page Help button located on any page.
- *API Reference* Silver Fabric API reference information is available in the Silver Fabric SDK in the `api` directory in JavaDoc format. You can also view and search them from the Silver Fabric Administration Tool; log in to the Administration Tool and go to **Admin > Documentation**.

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
TIBCO_HOME	Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as *TIBCO_HOME*. The default value of *TIBCO_HOME* depends on the operating system. For example, on Windows systems, the default value is `C:\tibco`.
SILVERFABRIC_HOME	TIBCO Silver® Fabric installs into a directory within *TIBCO_HOME*. This directory is referenced in documentation as *SF_HOME*. The default value of *SILVERFABRIC_HOME* depends on the operating system. For example on Windows systems, the default value is `C:\tibco\fabric`.
`code font`	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use `MyCommand` to start the foo process.
`bold code font`	Bold code font is used in the following ways: • In procedures, to indicate what a user types. For example: Type **`admin`**. • In large code samples, to indicate the parts of the sample that are of particular interest. • In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, `MyCommand` is enabled: `MyCommand [enable | disable]`
`italic font`	Italic font is used in the following ways: • To indicate a document title. For example: See *TIBCO ActiveMatrix BusinessWorks Concepts*. • To introduce new terms. For example: A portal page may contain several portlets. *Portlets* are mini-applications that run in a portal. • To indicate a variable in a command or code syntax that you must replace. For example: `MyCommand` *PathName*

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
Key combinations	Key names separated by a plus sign indicates keys pressed simultaneously. For example: Ctrl+C. Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.
	The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.
	The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.
	The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.

Table 2 Syntax Typographical Conventions

Convention	Use
`[ ]`	An optional item in a command or code syntax. For example: `MyCommand [optional_parameter] required_parameter`
`|`	A logical `OR` that separates multiple items of which only one may be chosen. For example, you can select only one of the following parameters: `MyCommand para1 | param2 | param3`

Table 2 Syntax Typographical Conventions

Convention	Use

`{ }`	A logical group of items in a command. Other syntax notations may appear within each logical group.
	
	For example, the following command requires two parameters, which can be either the pair `param1` and `param2`, or the pair `param3` and `param4`.
	
	`MyCommand {param1 param2} | {param3 param4}`
	
	In the next example, the command requires two parameters. The first parameter can be either `param1` or `param2` and the second can be either `param3` or `param4`:
	
	`MyCommand {param1 | param2} {param3 | param4}`
	
	In the next example, the command can accept either two or three parameters. The first parameter must be `param1`. You can optionally include `param2` as the second parameter. And the last parameter is either `param3` or `param4`.
	
	`MyCommand param1 [param2] {param3 | param4}`

`< >`	A parameter name that is to be replaced with an actual implementation value. For example, a configuration parameter shows the syntax for an entry: *<IP_Address>:<Port>/<Directory>/<SubDir>* And so the implementation value entry could be something like: `10.8.156.33:8080/MyTarget/SubFolder`

Connecting with TIBCO Resources

How to Join TIBCOmmunity

TIBCOmmunity is an online destination for TIBCO customers, partners, and resident experts, a place to share and access the collective experience of the TIBCO community. TIBCOmmunity offers forums, blogs, and access to a variety of resources. To register, go to http://www.tibcommunity.com.

How to Access All TIBCO Documentation

After you join TIBCOmmunity, you can access the documentation for all supported product versions here:

https://docs.tibco.com

How to Contact TIBCO Support

For comments or problems with this manual or the software it addresses, please contact TIBCO Support as follows.

- 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.

Chapter 1 TIBCO Cloud Bus Enablement Installation

This installation guide describes how to install the TIBCO Cloud Bus Enablement package on a TIBCO Silver Fabric Broker.

Topics

- Product Overview, page 1
  - TIBCO Cloud Bus Enablement Package, page 2
    - TIBCO Silver Fabric Distributions, page 2
    - TIBCO BusinessWorks Plug-in Distributions, page 2
    - TIBCO Silver Fabric Enablers, page 3
- Installation, page 4
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  - Install the TIBCO Cloud Bus Enablement Package, page 4
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Product Overview

TIBCO Cloud Bus provides rapid and elastic provisioning for your on-premises or private cloud integrated platform and project scaling.

TIBCO Cloud Bus accelerates the time to value of SaaS solutions and supports on-demand deployment without up front software and hardware investment. Ready-to-use templates speed integration with SaaS applications, enterprise applications, and social networks. You and your customers will benefit from seamless application availability and real-time responses to changes in your business environment.

TIBCO Cloud Bus Enablement Package

Included TIBCO Silver Fabric Enablers, Distributions, and Plug-ins give you the extended toolset needed to accelerate your project for publishing to TIBCO Cloud. The TIBCO Cloud Bus Enablement package includes the following Distributions and Enablers all of which are supported for use on a Red Hat Enterprise Linux 6.x x86-64 bit operating system:

TIBCO Silver Fabric Distributions

TIBCO ActiveMatrix BusinessWorks™ Distribution for TIBCO Silver® Fabric

TIBCO® Adapter for Database Distribution for TIBCO Silver® Fabric

TIBCO® Adapter for Files (Unix/Win) Distribution for TIBCO Silver® Fabric

TIBCO® Adapter for LDAP Distribution for TIBCO Silver® Fabric

TIBCO® Adapter for SAP Distribution for TIBCO Silver® Fabric

TIBCO Administrator Distribution for TIBCO Silver® Fabric

TIBCO Enterprise Message Service™ Distribution for TIBCO Silver® Fabric

TIBCO Hawk Distribution for TIBCO Silver® Fabric

TIBCO Rendezvous Distribution for TIBCO Silver® Fabric

TIBCO Runtime Agent Distribution for TIBCO Silver® Fabric

TIBCO BusinessWorks Plug-in Distributions

TIBCO ActiveMatrix BusinessWorks™ Plug-in for Facebook

TIBCO ActiveMatrix BusinessWorks™ Plug-in for Formvine®

TIBCO ActiveMatrix BusinessWorks™ Plug-in for NetSuite

TIBCO ActiveMatrix BusinessWorks™ Plug-in for REST and JSON

TIBCO ActiveMatrix BusinessWorks™ Plug-in for Salesforce.com

TIBCO ActiveMatrix BusinessWorks™ Plug-in for tibbr®

TIBCO ActiveMatrix BusinessWorks™ Plug-in for Twitter

TIBCO ActiveMatrix BusinessWorks™ Plug-in for Oracle E-Business Suite

TIBCO ActiveMatrix BusinessWorks™ Plug-in for Data Conversion

TIBCO Silver Fabric Enablers

TIBCO Silver® Fabric Enabler for ActiveMatrix BusinessWorks™

TIBCO Silver® Fabric Enabler for Adapter for Database

TIBCO Silver® Fabric Enabler for Adapter for Files (Unix/Win)

TIBCO Silver® Fabric Enabler for Adapter for LDAP

TIBCO Silver® Fabric Enabler for Adapter for SAP

TIBCO Silver® Fabric Enabler for TIBCO Enterprise Message Service™

Installation

Prerequisites

TIBCO Cloud Bus with TIBCO Silver Fabric must be installed on a Red Hat Enterprise Linux 6.x x86-64 bit server.

Installation of TIBCO Silver Fabric Engines is a separate step which may precede or follow this TIBCO Cloud Bus Enablement installation. Refer to the TIBCO Silver Fabric documentation for more information on installing Silver Fabric Engines and making them ready for use with your Silver Fabric Broker.

Install the TIBCO Cloud Bus Enablement Package

1. Get the TIBCO Cloud Bus Enablement package from the TIBCO Cloud Bus download page and put it in a local directory of TIBCO Silver Fabric Broker.

   The Cloud Bus Enablement package is named:

   ```
   TIB_tcb-enablement_1.1.0_linux24gl23_x86_64.zip
   ```

2. Extract the files from the Cloud Bus Enablement zipped archive.

   You could use the Shell prompt with the following command or whatever utility is convenient for you.

   ```
   unzip TIB_tcb-enablement_1.1.0_linux24gl23_x86_64.zip
   ```

   The contents of the Cloud Bus Enablement package are compressed zip archives called *gridlibs* and *componentTypes*. Do not extract these archives. The zipped archives are copied by TIBCO Silver Fabric.

3. Using the command prompt navigate to *SILVERFABRIC_HOME*, the installation directory, and stop the TIBCO Silver Fabric Broker:

   ```
   ./server.sh stop
   ```

4. Copy all the compressed archives in the `/gridlib` sub-dir to the directory:

   ```
   SILVERFABRIC_HOME/webapps/livecluster/deploy/resources/gridlib
   ```

   Where *SILVERFABRIC_HOME* is the TIBCO Silver Fabric installation directory.

5. Start the TIBCO Silver Fabric Broker. Using the command prompt enter:

   ```
   ./server.sh start
   ```

Verify the TIBCO Cloud Bus Enablement package is ready to use

- The latest log file in the **`/logs`** folder at the top-level of *SILVERFABRIC_HOME* will show whether the gridlibs have loaded correctly or not.
- You can also verify that you are ready to use Enablement package Enablers and Components by launching a browser pointed to the TIBCO Silver Fabric Administrator and verifying that the Enablers and Components of interest are accessible through the Admin interface:

  ```
  http://localhost:8080/livecluster
  ```

Where `localhost` and port *`8080`* are default values for TIBCO Silver Fabric Administrator when the browser is opened on the TIBCO Silver Fabric Broker.

Once you have verified installation of the TIBCO Cloud Bus On-Premises Enablement package, you have completed installation of TIBCO Cloud Bus.

You can work on your project implementation, configure new components, create and publish stacks, and add Silver Fabric Engines to your Silver Fabric Broker. It is recommended that you refer to the TIBCO Silver Fabric documentation for more information about the features, functionality, and flexibility of this broad integrated platform.

For More Information

For information about using TIBCO Silver Fabric, Enablers, Distributions, and associated plug-ins please refer to the product documentation for the platform, services, and applications you will use for your project.

The documentation for each of the TIBCO products that have been integrated and installed with the TIBCO Cloud Bus solution are available here:

https://docs.tibco.com

A good place to start if you are a new user is: *Introducing TIBCO Silver Fabric*.

Register as a member of the TIBCOmmunity to get full access to documentation, conversations, and blogs for TIBCO customers, partners, and resident experts. It is a place to share and access the collective experience of the TIBCO community.