



# **TIBCO BusinessConnect™ ConfigStore Management Interface Protocol**

## **Installation and Configuration**

*Software Release 6.1  
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# Preface



**This software may be available on multiple operating systems. However, not all operating system platforms for a specific software version are released at the same time. Please see the readme file for the availability of this software version on a specific operating system platform.**

TIBCO BusinessConnect™ ConfigStore Management Interface Protocol is a set of message-based interfaces that allows the private processes to interact with the TIBCO BusinessConnect™ server to retrieve or update configuration data. It acts as a service to other protocols based on TIBCO BusinessConnect to facilitate management of trading partners and business agreements.

## Topics

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- [Related Documentation, page vi](#)
- [Typographical Conventions, page viii](#)
- [TIBCO Product Documentation and Support Services, page xi](#)

## Related Documentation

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This section lists documentation resources you may find useful.

### TIBCO BusinessConnect ConfigStore Management Interface Protocol Documentation

The following documents form the *TIBCO BusinessConnect ConfigStore Management Interface Protocol* documentation set:

- *TIBCO BusinessConnect™ ConfigStore Management Interface Protocol Installation and Configuration*: Read this manual for instructions on site preparation and installation.
- *TIBCO BusinessConnect™ ConfigStore Management Interface Protocol User's Guide*: Read this manual for instructions on using the product.
- *TIBCO BusinessConnect™ ConfigStore Management Interface Protocol 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.

### Other TIBCO Product Documentation

You may find it useful to read the documentation for the following TIBCO products:

- **TIBCO BusinessConnect™ software**: A B2B (business-to-business) gateway that allows your company to engage in electronic commerce with your business partners.
- **TIBCO Administrator™ software**: The software allows you to manage users, machines and applications defined in a TIBCO Administration Domain. The TIBCO Administrator graphical user interface enables users to deploy, monitor, as well as start and stop TIBCO applications.
- **TIBCO ActiveMatrix BusinessWorks™ software**: This software is a scalable, extensible, and easy to use integration platform that allows you to develop integration projects. TIBCO BusinessWorks includes a graphical user interface (GUI) for defining business processes and an engine that executes the process.
- **TIBCO Designer™ software**: This graphical user interface is used for designing and creating integration project configurations and building an Enterprise Archive (EAR) for the project. The EAR can then be used by TIBCO Administrator for deploying and running the application.
- **TIBCO Runtime Agent™ software**: This software suite is a prerequisite for other TIBCO software products. In addition to TIBCO Runtime Agent components, the software suite includes the third-party libraries used by other TIBCO products such as

TIBCO Designer, Java Runtime Environment (JRE), TIBCO Hawk®, and TIBCO Rendezvous®.

- TIBCO Rendezvous®: This software enables programs running on many different kinds of computers on a network to communicate seamlessly. It includes two main components: the Rendezvous programming language interface (API) in several languages, and the Rendezvous daemon.
- TIBCO Enterprise Message Service <sup>TM</sup> software: This software provides a message service that enables integration of applications within an enterprise based on the Java Message Service (JMS) specifications.

# Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>ENV_NAME</i> <i>TIBCO_HOME</i> <i>bccmi_HOME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none"><li>• <b>Name</b> Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start &gt; All Programs menu.</li><li>• <b>Path</b> The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>.</li></ul> <p><i>TIBCO BusinessConnect ConfigStore Management Interface Protocol</i> installs into a directory within a <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>bccmi_HOME</i>. The default value of <i>bccmi_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\bc\version\protocols\emi.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none"><li>• In procedures, to indicate what a user types. For example: Type <b>admin</b>.</li><li>• In large code samples, to indicate the parts of the sample that are of particular interest.</li><li>• In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, MyCommand is enabled: MyCommand [<b>enable</b>   disable]</li></ul>



Table 1 General Typographical Conventions (Cont'd)




Convention	Use
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none"> <li>To indicate a document title. For example: See <i>TIBCO ActiveMatrix BusinessWorks Concepts</i>.</li> <li>To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.</li> <li>To indicate a variable in a command or code syntax that you must replace. For example: <code>MyCommand <i>PathName</i></code></li> </ul>
Key combinations	<p>Key name separated by a plus sign indicates keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	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
[ ]	<p>An optional item in a command or code syntax.</p> <p>For example:</p> <p><code>MyCommand [optional_parameter] required_parameter</code></p>
	<p>A logical OR that separates multiple items of which only one may be chosen.</p> <p>For example, you can select only one of the following parameters:</p> <p><code>MyCommand para1   param2   param3</code></p>

Table 2 Syntax Typographical Conventions (Cont'd)

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

# TIBCO Product Documentation and Support Services

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

## How to Access TIBCO Documentation

Documentation for TIBCO products is available on the TIBCO Product Documentation website mainly in the HTML and PDF formats.

The TIBCO Product Documentation website is updated frequently and is more current than any other documentation included with the product. To access the latest documentation, visit <https://docs.tibco.com>.

Documentation for TIBCO BusinessConnect ConfigStore Management Interface Protocol is available on the <https://docs.tibco.com/products/tibco-businessconnect-configstore-management-interface-protocol> Product Documentation page.

## How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit <http://www.tibco.com/services/support>
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- 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 <https://support.tibco.com>. 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 <https://community.tibco.com>.



## Chapter 1      **Introduction**

This chapter provides an overview of the installer, the software requirement, and other options you should be aware of before starting the installation.

### Topics

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- [Installation Overview, page 2](#)
- [Installation Requirements, page 4](#)

## Installation Overview

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This section gives an overview of the installer.

### Installation Modes

Three installation modes are available: GUI, console, and silent.

#### GUI Mode

In the GUI mode, the installer presents panels that allow you to make choices about product selection, product location, and so on. To invoke the installer in GUI mode, double-click the executable.

#### Console Mode

Console mode allows you to run the installer from the command prompt or terminal window. This is useful if your machine does not have a GUI environment.

#### Silent Mode

Silent mode installs the product using either default or custom settings that are saved in a response file. Silent mode installs the product without prompting you for information.

### Installation Types

Two installation types are available: Profile or Custom.

- The Profile installation type installs all the software for a specific profile.
- The Custom installation type allows you to select components.

### Installer Account

#### Microsoft Windows

You must have administrator privileges for the machine on which this product is installed. If you do not have administrator privileges, the installer exits. You must then log out of the system and log in as a user with the required privileges, or request your system administrator to assign the privileges to your account.

If you intend to install the product on a network drive, ensure that the account used for installation has permission to access the network drive.

## UNIX

Any user can install this product.

- Regular (non-root) user
- Super-user (root).

While installing this product on UNIX platforms, ensure that the same installer account is used to install all TIBCO <Family> products.

A graphic environment such as CDE or X Windows may be required to run the installer in GUI mode.

## Installer Log File

The installer log file, `tibco_universal_installer.username_install.log`, is written to the `.TIBCO/install_timestamp` folder of the user's home directory. To change the location of the installer log file, specify the option `-V logFile="myLogFile"` when you run the installer.

## Installation Requirements

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This section describes the disk space requirements, system memory requirements, software requirements, and supported platforms for this product.

### Disk Space Requirements

Before installing this product, extract the contents of the installation archive to a temporary directory. The installer files consume up to 500 MB of disk space.

#### Temporary Disk Space Required by the Installer

The installer requires at least 70 MB of free space in the temporary directory. On Microsoft Windows, the temporary directory typically is:

`%SystemDrive%\Documents and Settings\user_name\Local Settings\Temp.`

If your system does not have sufficient disk space in the default temporary area, you can run the installer with a different temporary directory by using the following option when starting the installer:

`-is:tempdir /new_temp`

where `/new_temp` has sufficient free disk space.

The installer calculates the disk space required in the product home location for the selected components. The calculation is done before the actual installation (copying of files to the system) begins. The installer will proceed only if sufficient free disk space is available in the product home location.

However, if disk space is consumed by another process while the installer is copying the files, and if the required disk space is thereby reduced, the installer may fail and will then give a failure message.

While performing installation, avoid running other processes that consume disk space in the product home location.

#### Disk Space After Installation

This product can consume 30 MB of free space under `bccmi_HOME`.

### System Memory Requirements

A minimum of 512 MB of physical memory is required.



## Supported Platforms

Refer to the readme file for the supported platforms, versions, and required patches.

## Software Requirements

Table 1 lists the required and optional software products..

Table 1 Software Requirements

Software	Description
<b>TIBCO Software</b>	
The software products below are distributed and installed separately from this product. See the readme file for the supported versions.	
TIBCO BusinessConnect™ (required)	<p>TIBCO BusinessConnect ConfigStore Management Interface Protocol requires TIBCO BusinessConnect software and all the software required by TIBCO BusinessConnect:</p> <ul style="list-style-type: none"><li>• TIBCO Runtime Agent™</li><li>• TIBCO Administrator™ (required only for administration and for migration)</li><li>• TIBCO ActiveMatrix BusinessWorks™ (optional)</li><li>• TIBCO BusinessConnect Services Plug-in The TIBCO BusinessConnect palette from TIBCO BusinessConnect Services Plug-in must be installed if you want to use TIBCO ActiveMatrix BusinessWorks processes as private processes for transactions.</li><li>• TIBCO Enterprise Message Service™</li></ul> <p>Refer to TIBCO BusinessConnect Installation and Configuration for details.</p>
<b>Third-party Software</b>	
See the readme file for the supported versions.	
You need a database to run TIBCO BusinessConnect.	
For an updated list of supported databases and version numbers, see the file TIB_bc_version_readme.txt for the specific release.	



## Chapter 2      **Installation Steps**

This chapter explains how to install and uninstall this product.

### Topics

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- [Installation, page 8](#)
- [Uninstallation, page 12](#)

## Installation

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The following sections describe the installation process in the available installation modes:

- [GUI Mode](#), page 14
- [Console Mode](#), page 16
- [Silent Mode](#), page 17

### GUI Mode

To install this product in GUI mode:

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Navigate to the temporary directory.
4. Run **TIBCOUniversalInstaller**. You can do so in one of the following ways:
  - Double-click the installer icon.
  - On the command prompt, provide the absolute path of the installer file without specifying any options. The installer defaults to GUI mode.
5. Click the **Next** button on the Welcome dialog.
6. Read through the license text when the License Agreement dialog appears, select the **I accept the terms of the license agreement** radio button and then click the **Next** button.
7. Choose an installation environment on the TIBCO Installation Home dialog.

An installation environment isolates product installations. A product installed into an installation environment does not access components in other installation

environments. An installation environment consists of a name and path. You can choose a new environment or an existing environment.

- **Create a new *TIBCO\_HOME*** To install the product into a new installation environment, 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.

The path cannot contain special characters such as "\*", "#", "?", ">", "<", "%", "&", "\$", "\", or "|". The path cannot be the same as the path of an existing environment.

**Name** Identifies the installation environment. The name cannot contain special characters such as "\*", "?", ">", "<", ":", "|", "/", "\", or quotation marks("").

The name is appended to the name of Windows services created by the installer and is a component of the path to the product in the Windows Start > All Programs menu.

- **Use an existing *TIBCO\_HOME*** To install the product into an existing installation environment, select the environment from the drop-down list.

Click the **Next** button.

8. TIBCO Universal Installer provides one installation profile, which installs TIBCO BusinessConnect ConfigStore Management Interface Protocol and CMI Palette components:

#### **BusinessConnect CMI Protocol.**

To customize the profile features, check the **Customize Installation** checkbox and use the feature tree on the right:

##### — **CMI Documentation**

This profile installs only the documentation provided for TIBCO BusinessConnect ConfigStore Management Interface Protocol.

##### — **CMI Runtime**

This profile installs the following components:

CMI Runtime

CMI Palette

9. Click **Next**.
10. Verify the list of products selected for install in the Pre-Install Summary dialog. If needed, go back to adjust the selection.
11. Click the **Install** button to start the installation process.
12. Review the information listed in the Post-Install Summary dialog.

13. Click the **Finish** button to complete the installation process and exit the universal installer.

## Console Mode

To install this product in console mode:

1. Open the physical media or download the package.
2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Run the following commands:

Windows:

**TIBCOUniversalInstaller-x86-64.exe -console**

AIX:

**TIBCOUniversalInstaller-aix.bin -console**

Linux:

**TIBCOUniversalInstaller-lnx-x86-64.bin -console**

Solaris Sparc:

**TIBCOUniversalInstaller-sol-sparc.bin -console**

Solaris X86 64:

**TIBCOUniversalInstaller-sol-x86.bin -console**

5. Complete the installation by responding to the console window prompts.

## Silent Mode

In silent mode, the universal installer does not prompt for any inputs during installation. Instead, the inputs are read from a response file that can be provided as a command-line parameter. If no value is specified, the installer uses the default

`TIBCOUniversalInstaller-bccmi.silent` file.

The `TIBCOUniversalInstaller-bccmi.silent` file is packaged in the directory that contains the universal installer. Edit the file with information for your environment before launching the silent installation. The file includes comments that describe the installation properties you can set. While you can use the `TIBCOUniversalInstaller-bccmi.silent` file, it's good practice to copy the file to a different name and use that file for the silent install.

If errors occur during installation, they will be listed in the installation log file located in the `User_Home/TIBCO` directory.

1. Open the physical media or download the package.

2. Extract the contents of the package to a temporary directory.
3. Using a console window, navigate to the temporary directory.
4. Make a copy of the `TIBCOUniversalInstaller-bccmi.silent` file and rename the file.
5. Using a text editor, open the copied file and update the install location and features to install.
6. Run the following:

Windows

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

AIX

```
TIBCOUniversalInstaller-aix.bin -silent -V responseFile="myfilename.silent"
```

Linux

```
TIBCOUniversalInstaller-lnx-x86-64.bin -silent -V responseFile="myfilename.silent"
```

Solaris Sparc

```
TIBCOUniversalInstaller-sol-sparc.bin -silent -V responseFile="myfilename.silent"
```

Solaris X86 64:

```
TIBCOUniversalInstaller-sol-x86.bin -silent -V responseFile="myfilename.silent"
```

## Uninstallation

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This section describes how to uninstall this product in the GUI mode and the Console mode.

### GUI Mode

To uninstall this product on Windows:

1. Shut down all running TIBCO BusinessConnect applications.
2. Navigate to *TIBCO\_HOME\tools\universal\_installer* and run **TIBCOUniversalInstaller-x86-64.exe**  
or  
select **Start>All Programs>TIBCO>Uninstall**.
3. Follow the steps as required by the Universal Installer Wizard.
4. Review the Post-Uninstall Summary and click the **Finish** button to exit the wizard.

## Uninstall Using the Console Mode

### Console Mode

To uninstall this product in Console mode:

1. Using a command window, navigate to the directory *TIBCO\_HOME/tools/universal\_installer*.
2. Type the following command at the command prompt:  
Windows:  
**TIBCOUniversalInstaller-x86-64.exe -console**  
AIX:  
**TIBCOUniversalInstaller-aix.bin -console**  
Linux:  
**TIBCOUniversalInstaller-lnx-x86-64.bin -console**  
Solaris Sparc:  
**TIBCOUniversalInstaller-sol-sparc.bin -console**  
Solaris X86 64:  
**TIBCOUniversalInstaller-sol-x86.bin -console**
3. Complete the uninstallation by responding to the console window prompts.



## Chapter 3      **Protocol Activation and Deployment**

This chapter explains how to activate and deploy TIBCO BusinessConnect ConfigStore Management Interface Protocol.

## Topics

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- [Overview, page 15](#)
- [Protocol Activation, page 16](#)
- [Protocol Deployment, page 17](#)

## Overview

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When installation is complete, TIBCO BusinessConnect ConfigStore Management Interface Protocol will appear in the table that displays when you click **Resource Management > Installed Software** in the left panel of TIBCO Administrator.

This chapter summarizes post-installation activities to activate and deploy TIBCO BusinessConnect ConfigStore Management Interface Protocol.



Before activating TIBCO BusinessConnect ConfigStore Management Interface Protocol, create the TIBCO BusinessConnect installation as explained in *TIBCO BusinessConnect Interior Server Administration*.

## Protocol Activation

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To activate TIBCO BusinessConnect ConfigStore Management Interface Protocol, do the following:

1. Using TIBCO Administrator, log in and click the **BusinessConnect** link in the left panel.
2. Click the **Manage** button.
3. Select the **Protocol Plug-in Activation** tab.
4. Check the **CMI** checkbox in the Protocol Plug-in column.
5. Click the **Activate** button.

During activation, TIBCO BusinessConnect performs the following activities:

- Installs the protocol grammar in the configuration store.
- Creates protocol-specific tables in the configuration store.
- Updates protocol-specific resources.
- Activates the protocol-specific online help.
- Activates protocol checker integration.
- Performs protocol-specific custom actions.

### Verify Activated Protocols

To check that the protocol has been activated:

1. Click the **BusinessConnect** link in the left panel.
2. Click **System Settings>Activated Protocol Plug-ins and Properties**
3. Verify that **CMI** is listed in the Installed Plug-in column with a correct version number.

## Protocol Deployment

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Before TIBCO BusinessConnect ConfigStore Management Interface Protocol can be used in B2B transactions, it must be deployed.

To deploy the installed protocol, you must deploy TIBCO BusinessConnect (even it has been previously deployed).

Before deploying TIBCO BusinessConnect, you must first create a deployment configuration. See *TIBCO BusinessConnect Interior Server Administration* for information on how to create a deployment configuration.

If TIBCO BusinessConnect is already deployed, undeploy it and deploy again.

To deploy TIBCO BusinessConnect, do the following:

1. In TIBCO Administrator, click the **Application Management > BusinessConnect > Configuration** link in the left panel.
2. Click the **Deploy** button in the right panel.
3. Click **OK**.

Deployability is now *Synchronized* and Deployment Status is *Success*, indicating that the instance is now deployed.



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