TIBCO BusinessConnect™ SOAP Protocol

Installation

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TIBCO®

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Preface

TIBCO BusinessConnect™ SOAP Protocol is a business protocol designed to enhance the capabilities of the TIBCO BusinessConnect™ integration platform. Integrated with TIBCO ActiveMatrix BusinessWorks™, you can use TIBCO BusinessConnect SOAP Protocol to create and send private process messages.

Topics

- Related Documentation, page vi
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- TIBCO Product Documentation and Support Services, page x

Related Documentation

This section lists documentation resources you may find useful.

TIBCO BusinessConnect SOAP Protocol Documentation

The following documents form the *TIBCO BusinessConnect SOAP Protocol* documentation set:

- *TIBCO BusinessConnect SOAP Protocol Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO BusinessConnect SOAP Protocol User's Guide* Read this manual for instructions on using the product to manage SOAP operations between trading hosts and partners.
- *TIBCO BusinessConnect SOAP 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™
- TIBCO Administrator™
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO Designer™
- TIBCO Runtime Agent™
- TIBCO Rendezvous®
- TIBCO Enterprise Message Service ™
- TIBCO BusinessConnect™ Palette
- TIBCO ActiveMatrix BusinessWorks™ Plug-in for BusinessConnect

Third Party Documentation

You may find it useful to read the following third-party documentation:

- The specification for the SOAP protocol

  http://www.w3.org/TR/SOAP

- Web Services Security UsernameToken Profile 1.1 OASIS Standard Specification, 1 February 2006

  http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-UsernameTokenProfile.pdf

- Web Services Addressing (WS-Addressing). W3C Member Submission, 10 August 2004

  http://www.w3.org/Submission/ws-addressing

- SOAP Message Transmission Optimization Mechanism. W3C Recommendation, 25 January 2005

  http://www.w3.org/TR/2005/REC-soap12-mtom-20050125

- Assertions and Protocols for the OASIS Security Assertion Markup Language (SAML) V2.0 OASIS Standard, 15 March 2005

  http://docs.oasis-open.org/security/saml/v2.0/saml-core-2.0-os.pdf

- Authentication Context for the OASIS Security Assertion Markup Language (SAML) V2.0 OASIS Standard, 15 March 2005

  http://docs.oasis-open.org/security/saml/v2.0/saml-authn-context-2.0-os.pdf

- Web Services Security: SAML Token Profile 1.1 OASIS Standard, 1 February 2006

  https://www.oasis-open.org/committees/download.php/16768/wss-v1.1-spec-os-SAMLTokenProfile.pdf

- Web Services Security: SOAP Message Security 1.1 (WS-Security 2004) OASIS Standard Specification, 1 February 2006

  http://docs.oasis-open.org/wss/v1.1/wss-v1.1-spec-os-SOAPMessageSecurity.pdf

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Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
ENV_NAME *TIBCO_HOME*	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. An installation environment consists of the following properties: • **Name** Identifies the installation environment. This name is referenced in documentation as *ENV_NAME*. 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 > All Programs menu. • **Path** The folder into which the product is installed. This folder is referenced in documentation as *TIBCO_HOME*.
BCSOAP_HOME	*TIBCO BusinessConnect SOAP Protocol* installs into a directory within a *TIBCO_HOME*. This directory is referenced in documentation as *BCSOAP_HOME*. The default value of *BCSOAP_HOME* depends on the operating system. For example, on Windows systems, the default value is C:\tibco\bc*version*\protocols\soap.
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]

Table 1 General Typographical Conventions (Cont'd)

Convention	Use
italic font	Italic font is used in the following ways: • To indicate a document title. For example: See *TIBCO BusinessConnect 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*
Key combinations	Key name separated by a plus sign indicate 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.

TIBCO Product Documentation and Support Services

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 SOAP Protocol is available on the https://docs.tibco.com/products/tibco-businessconnect-soap-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 Installation Introduction

This chapter explains installation modes, components, and requirements.

Topics

- Installation Overview, page 2
- Installation Requirements, page 4

Installation Overview

The TIBCO Universal Installer is used to install and uninstall TIBCO BusinessConnect SOAP Protocol.

Installation Modes

You can run the TIBCO Universal Installer in GUI, console, or silent mode. Each mode is supported on all platforms.

GUI Mode

In GUI mode, you can use the installation wizard to select a product, product location, and so on.

Console Mode

In console mode, you can run the installer on the command line. This is useful if your machine does not have a GUI environment.

Silent Mode

In silent 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 Environment

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

An installation environment is the top-level installation directory for TIBCO products. An installation environment consists of the following properties:

- **Directory**: identifies the name of the directory where the product is installed. This directory is referred to as *TIBCO_HOME*.
- **Name**: identifies the installation environment. On Microsoft Windows, the name is a component of the path to the product shortcut in the Windows **Start > All Programs** menu.

You must install TIBCO BusinessConnect SOAP Protocol into an existing *TIBCO_HOME* where TIBCO BusinessConnect is already installed. On Microsoft Windows, the default value of *TIBCO_HOME* is C:\tibco.

Installation Components

Different installation components associate with different functions. You can use the installer to select the components to be installed during the installation.

The following installation components are available for the product:

- **SOAP Runtime** This component includes a runtime engine for TIBCO BusinessConnect SOAP Protocol.
- **SOAP Documentation** This component is required for context sensitive help. The documentation of the product is installed in the *TIBCO_HOME*/bc/*version_number*/protocols/soap/doc directory.
- **SOAP Tools** This component includes the WSDL tool and a runtime engine for TIBCO BusinessConnect SOAP Protocol. The WSDL tool is installed in the *TIBCO_HOME*/bc/*version_number*/protocols/soap/tools directory.

Installer Log File

An installer log file is created during the installation that captures installation environment details, such as the user that invoked the installer, host name, operating system details, list of assemblies installed, and so on.

The location of the log file depends on the platform, as follows:

Microsoft Windows

User_Home\.TIBCO\install_*identifier*

where *identifier* is the date when the product was installed, and a unique number used to identify this particular installation.

UNIX

$Home/.TIBCO/install_*identifier*

where *identifier* is the date when the product was installed, and a unique number used to identify this particular installation.

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.

Installer Account

Ensure that you have the appropriate privileges, depending on the platform on which you are installing.

Table 2 Installer Account Privilege

Platform	Account Privileges
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 that your system administrator assigns the privileges to your account. To install the product on a network drive, ensure that the account used for installation has permission to access the network drive.
UNIX	Any type of user, regular (non-root) user and super-user (root), can perform the installation. When installing this product on UNIX platforms, ensure that the same installer account is used to install all TIBCO BusinessConnect products. A graphic environment such as CDE or X Windows is required to run the installer in GUI mode.

Hardware and Software Requirements

For information about the hardware and software requirements, and also supported platforms, see the product readme file.

The readme can be obtained either on the TIBCO doc site (https://docs.tibco.com) or from the TIBCO eDelivery site (https://edelivery.tibco.com) with the product software.

To access the TIBCO eDelivery site, you will need a user name and password. If you did not receive a user name and password, contact TIBCO Technical Support.

Chapter 2 Installation

This chapter explains how to install TIBCO BusinessConnect SOAP Protocol.

Topics

- Installing in GUI Mode, page 6
- Installing in Console Mode, page 7
- Installing in Silent Mode, page 8

Installing in GUI Mode

When you run the installer in GUI mode, it prompts you for information about the installation environment, and other customizations that you can make.

To install this product in GUI mode:

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 and password, contact TIBCO Technical Support.

2. Extract the contents of the package to a temporary directory.
3. Start the TIBCO Universal Installer:

   — On Microsoft Windows, double-click TIBCOUniversalInstaller.exe or TIBCOUniversalInstaller-x86-64.exe.

   — On UNIX, run TIBCOUniversalInstaller-*platform-acronym*.bin.

4. In the **Welcome** dialog, click **Next**.
5. Read through the license text, click **I accept the terms of the license agreement**, and then click **Next.**

   Or if you do not agree to the terms of the license agreement, click **Cancel** to exit the installation process.

6. In the **TIBCO Installation Home** dialog, click **Use an existing TIBCO_HOME**, and then choose the appropriate *TIBCO_HOME* from the list. Click **Next**.

   For more information, see Installation Environment on page 2.

7. In the **Installation Profile Selection** dialog, select **Typical** to install all components, or select the **Customize Installation** check box to explicitly select the installation components, and then click **Next**.

   For more information, see Installation Components on page 3.

8. Review the information in the **Pre-Install Summary** dialog, and then click **Install** to start the installation process.
9. When the installation is completed, review the information in the **Post Install Summary** dialog, and then click **Finish** to complete the installation process and exit the installer.

Installing in Console Mode

In console mode, the TIBCO Universal Installer is run from the command line.

To install this product in console mode:

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 and password, contact TIBCO Technical Support.
2. Extract the contents of the package to a temporary directory.
3. On the command line, navigate to the temporary directory to which you extract the installation package.
4. Enter the appropriate command to start the installation. For example:
   - Microsoft Windows: TIBCOUniversalInstaller.cmd -console
   - UNIX: ./TIBCOUniversalInstaller-*platform-acronym*.bin -console
5. Respond to the messages on the command line.

   See Installing in GUI Mode on page 6 for information about the messages.
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, which contains installation parameters.

A default response file is included with the product. You can edit the response file with information about your environment before launching the silent installation. The name of the default response file is:

TIBCOUniversalInstaller-bcsoap.silent

The best practice is to make a copy of the default response file, and then edit that file and use it for the installation.

If you invoke the TIBCO Universal Installer with only the **-silent** argument, the installer reads the input from the default response file.

If you make a copy of the default response file, and rename it, you must provide the name of the response file when invoking the installer. This is done by passing the following arguments on the command line:

-silent -V responseFile="*filename*.silent"

where *filename* is the name you gave the response file.

To install this product in silent mode:

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 and password, contact TIBCO Technical Support.
2. Extract the contents of the package to a temporary directory.
3. Navigate to the temporary directory to which you extract the installation package.
4. Make a copy of the default response file, and then rename this copied file.
5. Open the copied file by using a text editor. Update the installation location, *ENV_NAME*, and features to be installed.
   - Update the installation location. TIBCO BusinessConnect SOAP Protocol must be installed in the same directory where TIBCO BusinessConnect is installed. The default location is:

     <entry key="installationRoot">C:\tibco</entry>
   - Update *ENV_NAME*. TIBCO BusinessConnect SOAP Protocol must use the same *ENV_NAME* that TIBCO BusinessConnect uses.
   - Update features to be installed. Set the features that you want to install to true.

6. Enter the following command to start the installation. For example, if you have copied the response file and saved it as MyResponseFile.silent:
   - Microsoft Windows:

     TIBCOUniversalInstaller.cmd -silent -V responseFile="MyResponseFile.silent"

   - UNIX:

     ./TIBCOUniversalInstaller-*platform-acronym*.bin -silent -V responseFile="MyResponseFile.silent"

If you copy the response file to a directory other than the temporary directory containing the installer, you must provide the absolute path of the response file.

Chapter 3 Postinstallation

This section explains the tasks that you must complete following the TIBCO BusinessConnect SOAP Protocol installation.

Topics

- Postinstallation Overview, page 12
- Activating TIBCO BusinessConnect SOAP Protocol, page 13
- Deploying TIBCO BusinessConnect SOAP Protocol, page 14

Postinstallation Overview

After the installation is completed, TIBCO BusinessConnect SOAP Protocol is displayed when you expand **Resource Management > Installed Software** in the left panel of TIBCO Administrator.

You must complete the following postinstallation tasks to activate and deploy TIBCO BusinessConnect SOAP Protocol.

Before activating TIBCO BusinessConnect SOAP Protocol, you must complete all the postinstallation tasks described in *TIBCO BusinessConnect Interior Server Administration*, including creating the BusinessConnect installation.

Activating TIBCO BusinessConnect SOAP Protocol

To activate TIBCO BusinessConnect SOAP Protocol, complete the following steps:

1. Log in to TIBCO Administrator and expand **BusinessConnect** in the left panel.
2. Click **Manage** in the right panel.
3. Click the **Protocol Plug-in Activation** tab, and select the **SOAP** check box in the Protocol Plug-in column.
4. Click **Activate**.

Once you have completed the activation, you are automatically logged off from TIBCO Administrator. When you log in again, TIBCO BusinessConnect SOAP Protocol has the status Activated.

During activation, TIBCO BusinessConnect performs the following activities:

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

Verifying Activated Protocols

To verify if TIBCO BusinessConnect SOAP Protocol has been activated, perform the following steps:

1. Log in to TIBCO Administrator, and expand **BusinessConnect > System Settings**.
2. Click **Activated Protocol Plug-ins and Properties** in the right panel.
3. Verify that **SOAP** is listed with the correct version number in the Plug-in column.

Deploying TIBCO BusinessConnect SOAP Protocol

Before TIBCO BusinessConnect SOAP Protocol can be used in business-to-business transactions, you must first deploy TIBCO BusinessConnect, even if it has been previously deployed, and then deploy TIBCO BusinessConnect SOAP Protocol.

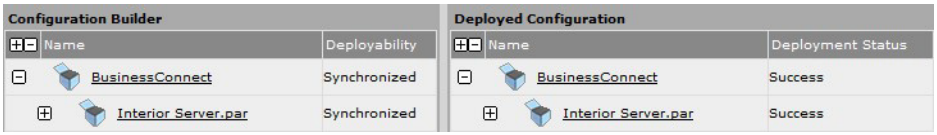
Before deploying TIBCO BusinessConnect, you must first create a deployment configuration. See *TIBCO BusinessConnect Interior Server Administration*.

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

To deploy TIBCO BusinessConnect, perform the following steps:

1. Log in to TIBCO Administrator, expand **Application Management > BusinessConnect > Configuration** in the left panel.
2. Click **Deploy** in the right panel.
3. On the Deploy Configuration page, click **OK**.

After performing the previous steps, the status of Deployability is Synchronized and the Deployment Status is Success, indicating that the instance is now deployed:



Chapter 4 Uninstallation

This chapter explains how to uninstall TIBCO BusinessConnect SOAP Protocol.

Topics

- Uninstalling in GUI Mode, page 16
- Uninstalling in Console Mode, page 17

Uninstalling in GUI Mode

By using the TIBCO Universal Installer, you can uninstall all products in a particular *TIBCO_HOME*, or you can uninstall specific products that have been installed in a *TIBCO_HOME*.

To uninstall this product in GUI mode:

1. Navigate to the *TIBCO_HOME*/tools/universal_installer directory.
2. Start the TIBCO Universal Installer:
   - On Microsoft Windows, double-click TIBCOUniversalInstaller.exe or TIBCOUniversalInstaller-x86-64.exe.
   - On UNIX, run TIBCOUniversalInstaller-*platform-acronym*.bin.
3. 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, and then click **Next**.
5. In the **Welcome** dialog, click **Next**.
6. In the **Uninstallation Type** dialog, select one of the following options, and then click **Next**.
   - **Custom Uninstall** Removes the products that you select in step 7.
   - **Typical Uninstall** Removes all the products in the *TIBCO_HOME* you selected. If you select this option, proceed to step 8.
7. Select the products to be uninstalled, and then click **Next**.
8. Review the products to be uninstalled, and then click **Uninstall**.
9. In the **Post Uninstall Summary** dialog, click **Finish** to exit the uninstall wizard.
10. If you have uninstalled all the software in *TIBCO_HOME*, delete the folders in the installation environment and user home.

Uninstalling in Console Mode

In console mode, you can uninstall the product from the command line.

To uninstall this product in console mode:

1. Open a command line and navigate to the *TIBCO_HOME*/tools/universal_installer directory.
2. Enter the appropriate command to start the uninstallation. For example:
   - Microsoft Windows: TIBCOUniversalInstaller.exe -console or TIBCOUniversalInstaller-x86-64.exe -console
   - UNIX: ./TIBCOUniversalInstaller-*platform-acronym*.bin -console
3. Respond to the messages on the command line.

   See Uninstalling in GUI Mode on page 16 for information about the messages.
4. When the uninstallation is completed, press Enter to exit the installer.

Appendix A Troubleshooting

This appendix provides guidance for diagnosing and resolving installation issues that you might encounter when installing TIBCO BusinessConnect SOAP Protocol.

Topics

- SOAP Features Are Not Displayed in the BusinessConnect Console, page 20

SOAP Features Are Not Displayed in the BusinessConnect Console

If you cannot see SOAP features in the Configuration GUI after installing TIBCO BusinessConnect SOAP Protocol, perform the following steps to manually load them:

1. Log in to TIBCO Administrator, expand **Application Management > All Service Instance** in the left panel.
2. Click the ***machine_name*** **- TIBCO Administrator** link in the right panel.
3. Click the **Plug-Ins** tab, and then click **Add**.
4. Click **Browse**. Navigate to the *TIBCO_HOME*/bc/*version_number*/protocols/soap/admin-plugins directory, and select the bcsoapadmin.war file.
5. Click **OK**, and then click **Done**.
6. Select the ***machine_name*** **- TIBCO Administrator** check box.
7. Click **Restart**.

The SOAP features are now available in TIBCO Administrator.

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