TIBCO BusinessConnect™ B2BPlugin for CMI

B2B-TRADACOMS Configuration

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Two-Second Advantage®

TIBCO®

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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.txt file for the availability of this software version on a specific operating system platform.

This manual describes how to install and configure TIBCO BusinessConnect™ B2BPlugin for CMI.

Topics

Related Documentation

This section lists documentation resources you may find useful.

Documentation

The following documents form the TIBCO BusinessConnect B2BPlugin for CMI documentation set:

- *TIBCO BusinessConnect™ B2BPlugin for CMI Installation and Configuration*. Read this manual to learn about installing and deploying TIBCO BusinessConnect B2BPlugin for CMI.

- *TIBCO BusinessConnect™ B2BPlugin for CMI User's Guide*. Read this manual to learn about using TIBCO BusinessConnect B2BPlugin for CMI. It contains information on use and configuration that is common to all the B2BPlugin protocols.

- *TIBCO BusinessConnect™ B2BPlugin for CMI B2B-EDIFACT Configuration*. Read this manual for instructions on configuring the B2B-EDIFACT protocol.

- *TIBCO BusinessConnect™ B2BPlugin for CMI B2B-TEXT Configuration*. Read this manual for instructions on configuring the B2B-TEXT protocol.

- *TIBCO BusinessConnect™ B2BPlugin for CMI B2B-TRADACOMS Configuration*. Read this manual for instructions on configuring the B2B-TRADACOMS protocol.

- *TIBCO BusinessConnect™ B2B B2BPlugin B2B-X12 Configuration*. Read this manual for instructions on configuring the B2B-X12 protocol.

- *TIBCO BusinessConnect™ B2BPlugin for CMI Release Notes*. Read this manual for information on new features and resolved and open issues for TIBCO BusinessConnect B2BPlugin for CMI.

Other TIBCO Product Documentation

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

- TIBCO BusinessConnect™ software

- TIBCO Administrator™ software

- TIBCO ActiveMatrix BusinessWorks™ software

- TIBCO Designer™ software

Typographical Conventions

The following typographical conventions are used in this manual.

Table 1   General Typographical Conventions

Convention	Use
TIBCO_HOME *ENV_NAME* *b2bplugin_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`. Other TIBCO products are installed into an *installation environment*. Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as *ENV_NAME*. The default value of *ENV_NAME* depends on the operating system. For example, on Windows systems the default value is `C:\tibco`. TIBCO BusinessConnect B2BPlugin for CMI installs into a directory within *TIBCO_HOME* or *ENV_NAME*. This directory is referenced in documentation as *b2bplugin_HOME*. The default value of *b2bplugin_HOME* depends on the operating system. For example on Windows systems, the default value is `C:\tibco\bc\`*version*`\protocols\`*b2bplugin*.
`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™ B2BPlugin for CMI Installation and Configuration*. • 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 names 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.

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:

http://docs.tibco.com/TibcoDoc

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 username and password. If you do not have a username, you can request one.

Chapter 1 **B2B-TRADACOMS Overview**

This chapter briefly describes the TRADACOMS standard and its use for electronic data interchange.

Topics

Product Overview

EDI (**E**lectronic **D**ata **I**nterchange) is the exchange of information between trading partners where the information is formatted according to a set of common data format standards developed in the U.S. and Western Europe during the late 1970s. EDI standards describe the format of the data that is to be exchanged. These standards are independent of the transport.

TRADACOMS is a UK based standard, designed for domestic trade. The first TRADACOMS standard was released in 1982, a number of years before EDIFACT appeared. There are a few similarities between the two, but also some significant differences.

TRADACOMS Messages

The TRADACOMS standard encompasses 26 messages. Each message is laid out in a hierarchical structure. Unlike EDIFACT, TRADACOMS does not use a single message format, but instead uses multiple messages.

A single order message could comprise an Order Header Message (ORDHDR), multiple Orders Messages (ORDERS), Order Trailer Message (ORDTLR). Multiple individual order message can repeat between the ORDHDR and the ORDTLR.

In the general case, a TRADACOMS transmission consists of:

- A Start of Transmission Segment (STX)

- One or more files

- A Reconciliation Message (RSGRSG)

- An End of Transmission Segment (END)

A TRADACOMS file consists of a series of messages. Each message has a similar overall structure, beginning with a Message Header Segment (MHD) and ending with a Message Trailer Segment (MTR). The contents, however, are different for each transaction type or File Format (for example, Orders, Invoices).

Chapter 2 **Tutorial — Getting Started**

This chapter gives an overview of how to use ActiveMatrix BusinessWorks with TIBCO BusinessConnect B2BPlugin for CMI

In this tutorial you will configure trading partner information, configure a private process to communicate with B2B-TRADACOMS protocol, and run the tutorial.

Topics

Overview

In this tutorial you use TIBCO ActiveMatrix BusinessWorks and TIBCO BusinessConnect B2BPlugin for CMI running on one machine to send a message to a trading partner.

When you run the tutorial, the following steps will occur:

1. TIBCO Designer will read a file that contains the data for ORDHDR.

2. TIBCO Designer will send the EDI data to TIBCO BusinessConnect B2BPlugin for CMI.

3. TIBCO BusinessConnect B2BPlugin for CMI will send the document to the trading partner using HTTP transport.

The following sections describe how to set up and run the tutorial. The steps involved in setting up TIBCO BusinessConnect B2BPlugin for CMI to run the tutorial are the same steps that have been discussed in *TIBCO BusinessConnect B2BPlugin for CMI User's Guide* Chapter 4, Setting Up Trading Hosts:

• Trading Partner Setup

• TIBCO ActiveMatrix BusinessWorksProcess Assembly

Prerequisites

Before starting the tutorial, do the following:

1. Install the following software packages:

    a. TIBCO BusinessConnect (Server)

    b. TIBCO BusinessConnect Services Plug-in (Palette)

    c. TIBCO BusinessConnect B2BPlugin for CMI

2. If you are unfamiliar with the TRADACOMS standard, read Chapter 1, B2B-TRADACOMS Overview, on page 1.

3. See the *TIBCO BusinessConnect Interior Server Administration* and the *TIBCO BusinessConnect Trading Partner Administration* for complete information on setting up and running TIBCO BusinessConnect.

4. Review Setting Up Trading Partners in *TIBCO BusinessConnect B2BPlugin for CMI, User's Guide*.

5. Activate TIBCO BusinessConnect B2BPlugin for CMI

Configuring the Initiator

This section steps you through the activities you need to perform to configure the host and trading partner on the Initiator machine.

To proceed with the tutorial, do the following:

- Set Up a Host, page 8
- Deploy the Initiator Server, page 12
- Set Up a Partner, page 10
- Configure the Business Agreement, page 12

Set Up a Host

If this is the first time you are configuring a host on this machine after installing EDI protocols, follow these steps:

1. Start Creating a New Trading Host, page 8
2. Set a Custom Transmission Code for the Host, page 9
3. Activate the Host, page 10

Start Creating a New Trading Host

To create your trading host and set it as the default host, do the following:

1. Click the **Business Connect > Participants** link in the left panel.
2. Click the **New** button in the right panel.
3. Type **Company1** in the Participant Name field.
4. Select **Host** in the Participant Type drop-down list.
5. Click **OK**.
6. Click **Apply**.

Enable the B2B-TRADACOMS Protocol for the New Host

All B2BPlugin protocols are enabled by default after installation. In order to configure and activate any of the protocols, disable *all other unconfigured* protocols. Once the protocols are configured, they can be enabled or disabled at any time: this procedure is needed only when configuring protocols for the first time.

If no protocols have been enabled:

1. Select the new Host and click on the Protocols tab.

2. Select the checkboxes next to B2BPlugin protocols other than B2B-TRADACOMS.

3. Click **Disable.**

If enabling an additional protocol:

1. Click **Enable**

2. Select the checkbox next to B2B-TRADACOMS.

3. Click **OK** .

Set a Custom Transmission Code for the Host

1. Select **BusinessConnect>SystemSettings>Metadata Type Configuration> Domains.**

2. Click the **New** button.

3. Add the required name (`5013546000000`) and the description.

4. Click **Save** and **Done**.

5. Click **BusinessConnect>Participants>Company1**.

6. Select **Protocols** and **Enable**.

7. Select the checkbox next to **B2B-TRADACOMS** and click **OK**.

8. Select the **B2B-TRADACOMS** link.

9. In the Edit Enabled Protocol dialog, click the **Add New** link next to the Default Transmission Code Name field.

10. In the Transmission Code Name List dialog, click the **Add New** button.

11. In the Transmission Code drop-down list, select `5013546000000` (you may need to scroll through the list to find it).

12. In the Name field type a name, such as `TRANSMISSION SENDER`.

13. Click **Save**.

14. Click **OK**.

15. In the Default Transmission Code Name drop-down list, select `5013546000000`-`TRANSMISSION SENDER`.

Define the Store Location

1. Select the **Advanced** tab.

2. In the Store Location window, type the locatio on the machine where the files will be stored by BusinessConnect (such as C:/testBCB2B).

3. Click **Save**.

Activate the Host

1. Select **BusinessConnect > Participants** again.

   Verify that the new host, Company 1, has the Domain Identity you defined in the step Set the Default Transmission Code and Name:
   5013546000000-TRANSMISSION SENDER.

2. Click on the **Company1** link.

3. In the Edit Host Participant dialog, check the **Active** checkbox.

4. Click **Save**.

> Saving of the trading host will succeed only if the protocol is properly configured: protocol is binded and a qualifier/ID and store location are provided.

5. Select **BusinessConnect>System Setting>General** and verify that Company1 is selected as the default host.

Set Up a Partner

The trading partner setup consists of these steps:

- Create a Partner, page 10
- Enable the B2B-TRADACOMS Protocol for the Partner, page 11
- Set the Default Transmission Code and Name, page 11
- Set the Transport, page 11

Create a Partner

To set up the trading partner do the following:

1. Click the **Business Connect > Participants** link in the left panel.

2. Click the **New** button in the right panel.

3. Type **Company2** in the Participant Name field.

4. Select **Partner** in the Participant Type drop-down list.

5. Click **OK**.

6. Select the **Active** checkbox.

7. Click **Save**.

   Company2 appears on the Participants list, with no identity defined.

Enable the B2B-TRADACOMS Protocol for the Partner

1. Click on the link **Company2**.

2. Click the **Protocols** tab.

3. Click the **Enable** button.

4. Select the **B2B-TRADACOMS** checkbox.

5. Click **OK**.

Set the Default Transmission Code and Name

1. Click the **B2B-TRADACOMS** link.

2. Click the **Add New** link next to the Default Transmission Code Name field.

3. In the Transmission Code Name List dialog, click the **Add New** button.

4. In the Transmission Code drop-down list, select 5013546000000.

5. In the Name field, type **TRANSMISSION RECEIVER**.

6. Click **Save**.

7. Click **OK**.

8. In the Default Transmission Code Name drop-down list, select
   5013546000000-TRANSMISSION RECEIVER.

9. Click **Save**.

Set the Transport

To set the transport:

1. Click the B2B-TRADACOMS link.

2. Click the **Transports** tab.

3. Click the **Add** button.

4. Select **HTTP** from the Transport Type drop-down list.

5. Click **OK**.

6. In the URL field, type *hostname***:6700/B2B-TRADACOMS**, where *hostname* is the name of the machine hosting the Responder trading partner, and 6700 is the HTTP port set in the deployment configuration on the Responder's server.

7. Click **Save** three times.

Configure the Business Agreement

1. Click the **Business Connect > Business Agreements** link in the left panel.

2. Click the **New** button in the right panel.

3. Select the **Company1** radio button in the Host Party area and the **Company2** radio button in the Partner Party area.

4. Click **OK**.

5. In the New Agreement dialog, click the **Add Protocol Binding** button.

6. Select the **B2B-TRADACOMS** checkbox.

7. Click **OK**.

8. Click the **B2B-TRADACOMS** link.

9. Select the transports.

   a. Click the **Transports** tab.

   b. In the Outbound Transports for Host 'Company1' area, select **HTTP** from the Primary Transport drop-down list.

10. Click **Save** twice.

    The new agreement between Company1 and Company2 with the enabled protocol B2B-TRADACOMS appears.

Deploy the Initiator Server

The Initiator server must be set up to communicate with its trading partners. To do so, follow these steps

- Create the deployment configuration. See *TIBCO BusinessConnect Interior Server Administration* for information on deployment configurations.

- Deploy BusinessConnect and start the server.

Configuring the Responder

This section steps you through the activities you need to perform to configure the host and trading partner on the Responder machine.

To proceed with the tutorial, do the following:

Set Up a Host

If this is the first time you are configuring a host on this machine after installing EDI protocols, follow these steps:

Start Creating a New Trading Host

To create your trading host and set it as the default host, do the following:

1. Click the **Business Connect > Participants** link in the left panel.

2. Click the **New** button in the right panel.

3. Type `Company2` in the Participant Name field.

4. Select **Host** in the Participant Type drop-down list.

5. Click **OK**.

6. Click **Save**.

If no protocols have been enabled:

1. Select the new Host and click on the Protocols tab.

   a. Select the checkboxes next to B2BPlugin protocols other than B2B-TRADACOMS.

   b. Click **Disable**

If enabling an additional protocol:

    a. Click **Enable**

    b. Select the checkbox next to B2B-TRADACOMS and click **OK**.

Set a Custom Transmission Code for the Host

1. Select **BusinessConnect>SystemSettings>Metadata Type Configuration> Domains.**

2. Click the **New** button.

3. Add the required name (5013546000000) and the description.

4. Click **Save** and **Done**.

5. Click **BusinessConnect>Participants>Company2**.

6. Select **Protocols** and **Enable**.

7. Select the checkbox next to **B2B-TRADACOMS** and click **OK**.

8. Select the **B2B-TRADACOMS** link.

9. In the Edit Enabled Protocol dialog, click the **Add New** link next to the Default Transmission Code Name field.

10. In the Transmission Code Name List dialog, click the **Add New** button.

11. In the Transmission Code drop-down list, select 5013546000000 (you may need to scroll through the list to find it).

12. In the Name field type a name, such as **TRANSMISSION RECEIVER**.

13. Click **Save**.

14. Click **OK**.

15. In the Default Transmission Code Name drop-down list, select 5013546000000**-**TRANSMISSION RECEIVER.

16. Click **Save**.

Define the Store Location

1. Select the **Advanced** tab.

2. In the Store Location window, type the locatio on the machine where the files will be stored by BusinessConnect (such as C:/testBCB2B).

3. Click **Save**.

Activate the Host

1. Select **BusinessConnect > Participants** again.

   Verify that the new host, Company2, has the Domain Identity you defined in the step Set the Default Transmission Code and Name: 5013546000000-TRANSMISSION RECEIVER.

2. Click on the **Company2** link.

3. In the Edit Host Participant dialog, check the **Active** checkbox.

4. Click **Save**.

> Saving of the trading host will succeed only if the protocol is properly configured: protocol is binded and a qualifier/ID and store location are provided.

5. Select **BusinessConnect>System Setting>General Settings** and verify that Company2 is selected as the default host.

Set Up a Partner

The Responder trading partner setup consists of these steps:

- Configure a Trading Partner, page 15
- Enable the B2B-TRADACOMS Protocol, page 16
- Set the Default Transmission Code and Name, page 16
- Set the Transport, page 16

Configure a Trading Partner

To set up the Responder trading partner do the following:

1. Click the **Business Connect > Participants** link in the left panel.

2. Click the **New** button in the right panel.

3. Type **Company1** in the Participant Name field.

4. Select **Partner** in the Participant Type drop-down list.

5. Click **OK**.

6. Select the **Active** checkbox.

7. Click **Save**.

   Company1 appears on the Participants list, with no identity defined.

Enable the B2B-TRADACOMS Protocol

1. Click on the link **Company1**.
2. Click the **Protocols** tab.
3. Click the **Enable** button.
4. Select the **B2B-TRADACOMS** checkbox.
5. Click **OK**.

Set the Default Transmission Code and Name

1. Click the **B2B-TRADACOMS** link.
2. Click the **Add New** link next to the Default Transmission Code Name field.
3. In the Transmission Code Name List dialog, click the **Add New** button.
4. In the Transmission Code drop-down list, select 5013546000000.
5. In the Name field, type **TRANSMISSION_SENDER**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Transmission Code Name drop-down list, select 5013546000000-TRANSMISSION SENDER.
9. Click **Save**.

Set the Transport

To set the transport:

1. Click the B2B-TRADACOMS link.
2. Click the **Transports** tab.
3. Click the **Add** button.
4. Select **HTTP** from the Transport Type drop-down list.
5. Click **OK**.
6. In the URL field, type *hostname***:6700/B2B-TRADACOMS**, where *hostname* is the name of the machine hosting the Initiator trading partner, and 6700 is the HTTP port set in the deployment configuration on the Responder's server.
7. Click **Save** three times.

Configure the Business Agreement

1. Click the **Business Connect > Business Agreements** link in the left panel.

2. Click the **New** button in the right panel.

3. Select the **Company2** radio button in the Host Party area and the **Company1** radio button in the Partner Party area.

4. Click **OK**.

5. In the New Agreement dialog, click the **Add Protocol Binding** button.

6. Select the **B2B-TRADACOMS** checkbox.

7. Click **OK**.

8. Click the **B2B-TRADACOMS** link.

9. Select the transports.

   a. Click the **Transports** tab.

   b. In the Outbound Transports for Host 'Company2' area, select **HTTP** from the Primary Transport drop-down list.

   c. In the Allowed Inbound Transports for Partner 'Company1' area, ensure that the **HTTP** checkbox is selected.

10. Click **Save** twice.

    The new agreement between Company2 and Company1 with the enabled protocol B2B-TRADACOMS appears.

Deploy the Responder Server

The Responder server must be set up to communicate with its trading partners. To do so, follow these steps

- Create the deployment configuration. See *TIBCO BusinessConnect Interior Server Administration* for information on deployment configurations.

- Deploy BusinessConnect and start the server.

Configuring Private Processes

TIBCO BusinessConnect B2BPlugin for CMI contains an example TIBCO ActiveMatrix BusinessWorks project which reads a B2B-TRADACOMS sample file and sends out a B2B-TRADACOMS request.

This sample project that can be found in the directory
BC_HOME\protocols\b2bplugin\examples\bw\B2B-TRADACOMS.

To open the sample project:

1. Start TIBCO Designer and select **New empty project**.

2. In the Save Project dialog, click **Cancel**.

3. Select **Project > Import Full Project**.

4. Click the **ZIP Archive** tab.

5. Navigate to
   BC_HOME\protocols\b2bplugin\examples\bw\B2B-TRADACOMS.

6. Select **B2B-TRADACOMS.zip** and click **Open**.

7. Click **OK**.

   The Import - Options dialog appears.

8. In the Options tab, select the **Try rename in case of name conflict** radio button.

9. Click **Apply**.

10. Select **Project > Save As**.

11. In the Project Directory file chooser, navigate to
    BC_HOME\protocols\b2bplugin\samples\bw\B2B-TRADACOMS.

12. Click **OK**.

13. Click **Yes** when a dialog appears asking to use the directory as a project directory.

    The zip archive file will be deleted.

14. The window shown in Figure 1 will display.

Figure 1   TIBCO ActiveMatrix BusinessWorks Project
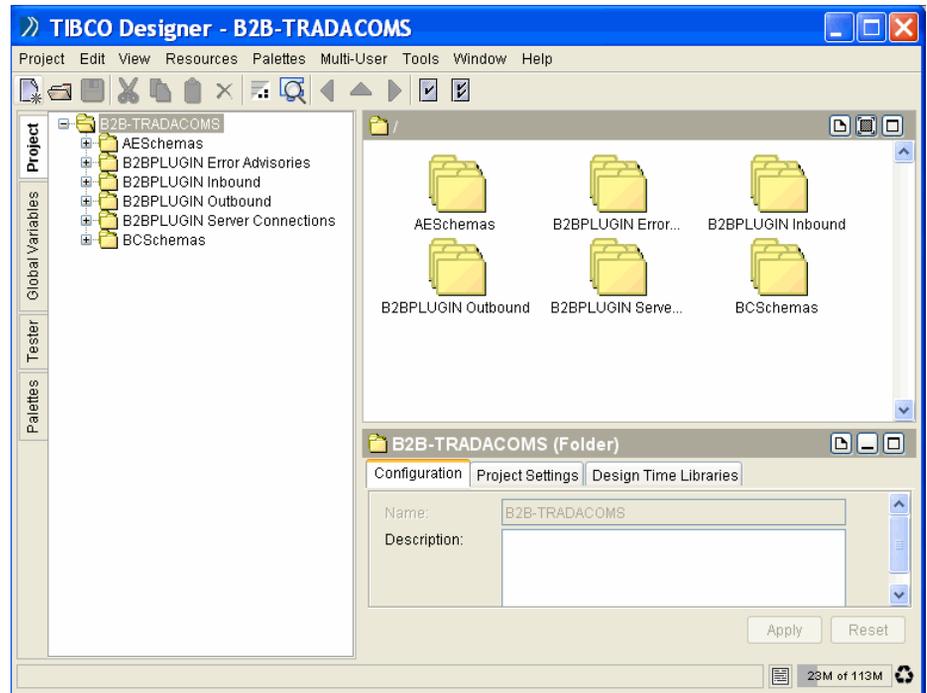
15. If you made any changes, save the project but do not exit TIBCO Designer.

Configure Connections to BusinessConnect

To configure connections to BusinessConnect, do the following:

1. Click the **Project** tab.

2. Expand the **B2BPLUGIN Server Connections** folder.

3. Click the **BCServerConfig.**

4. Click the BusinessConnect **Server Access** tab and enter the following information for the *Responder*:

   a. Select the JDBC driver you use to communicate with the BusinessConnect configuration store from the JDBC Driver drop-down list.

   b. Type the URL for the configuration store in the JDBC URL field.

   c. Type the configuration store user name and password in the DB User and Password fields.

   d. Click the **Apply** button.

5. Click the **Configuration** tab.

6. Click the **Update from Configuration Store** button.

7. Select **B2B-TRADACOMS** from the Protocol Name drop-down list.

8. Click the **Import Selected Business Protocol** button. When you import the protocol, TIBCO ActiveMatrix BusinessWorks retrieves schema information from the TIBCO BusinessConnect configuration store and puts it in the BCSchemas project folder.

9. Click **Apply**.

10. Click the Save icon to save the project.

Process Types

The B2B-TRADACOMS project contains processes in three folders:

*   **B2BPlugin Inbound**   This folder contains the Receive Request process. It illustrates how to use the Notification activity to process a TRADACOMS ORDHDR inbound transmission by BusinessConnect

*   **B2BPlugin Outbound**   This folder contains the Send Request process, which reads a B2B-TRADACOMS sample file and sends out a B2B-TRADACOMS request.

*   **B2BPlugin Error Advisories**   This folder contains the Error Advisory process which is activated when TIBCO BusinessConnect sends out an advisory indicating that there was an error on the original message.

Running the Tutorial

To run the tutorial, follow these steps:

Set the Input Data on the Initiator

1. Expand the **B2B-TRADACOMS > B2BPlugin Outbound** folder.

2. Select the process **Send Reques**t and press the F12 key.

3. Type the following input data:

   BCHOME: *BC_HOME* , such as `C:\tibco\bc\n.n`

   DataFile: **tradacoms.ordhdr.dat**

   `TPName`: **Company2**

4. Click **OK**.

Send an Outbound Request

This process does the following:

- Reads a TRADACOMS sample file
- Sends a TRADACOMS request

Figure 2   Send B2B-TRADACOMS Request

This process definition example illustrates how to use the 'BusinessConnect Send Notification' activity to send a TRADACOMS message to BusinessConect.
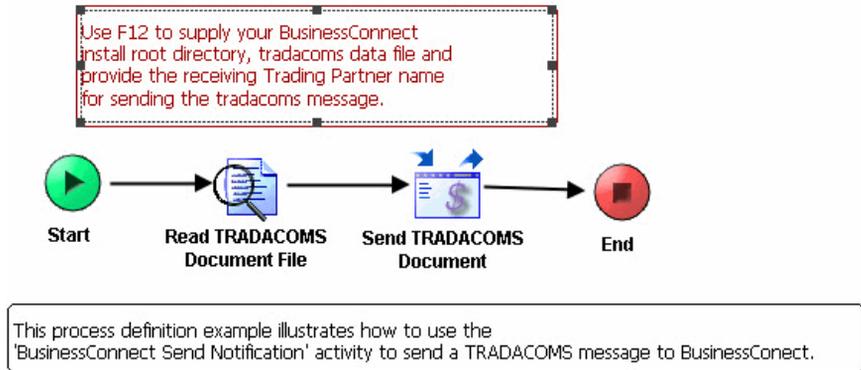
Receive Inbound Request

The Receive Request process is shown in Figure 3. This process receives the TRADACOMS request and send a notification

Figure 3   Receive Request Process

This process definition example illustrates how to use the 'BusinessConnect Receive Notification' activity to process an TRADACOMS ORDHDR inbound transmission by BusinessConnect.
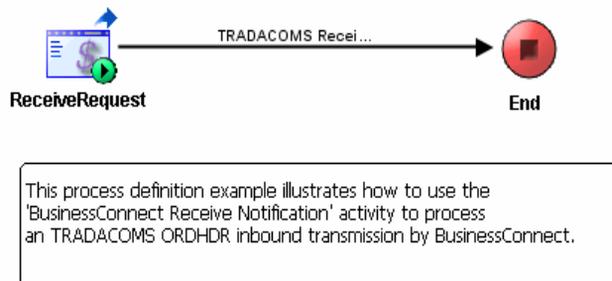
Start the Receive Request Process on the Responder Machine

To start the process:

1. Select the **Tester** tab.

2. Select **Start Testing Viewed Process** button ▶ .

3. Check the **B2BPLUGIN Inbound > Receive Request Process** checkbox.

4. Click **Load Selected**.

Expected Results

On the Initiator Side

Once the B2B-TRADACOMS data is received by TIBCO BusinessConnect B2BPlugin for CMI, the B2B-TRADACOMS message is sent to trading partner using HTTP transport.

The activity of the Receive process should contain output that indicates it received the message from the trading partner.

The audit log should contain entries that for each processing state that occurred in TIBCO BusinessConnect. See View the Audit Log.

View the Audit Log

To view the audit log on the Initiator machine, do the following:

1. Using TIBCO Administrator, click the BusinessConnect > Log Viewer link in the left panel.

2. Click the B2B-TRADACOMS link in the right panel.

3. The default search settings are already selected:

   — status ANY and

   — date range One Day

4. Click Search.

5. Click the **Details** icon ▤ in the Search Results area for a specific operation to view the details of the transaction.

6. Repeat the steps 1-5 on the Responder machine.

   Compare the audit log entries on your Initiator and on the Responder, which contain transaction detail examples for successfully completed transactions.

Figure 4   B2B-TRADACOMS Initiator Audit Log

Figure 5   B2B-TRADACOMS Responder Audit Log

Chapter 3 **Managing Syntax Rules Identifiers and Transmissions**

This chapter describes how to use the Operations Editor to manage syntax rules identifiers and transmissions for B2B-TRADACOMS.

Topics

Overview

TIBCO BusinessConnect B2BPlugin for CMI, B2B-TRADACOMS Protocol, uses syntax rules identifiers to organize transmissions. A transmission might be ORDRSP, which is an order response.

Each transmission defines an action and its related communication parameters. For example, the definition of a transmission would include the following:

- The transmission description
- The guidelines used by the transmission

You will later use transmissions after setting up communications with your trading partners.

Adding a Syntax Rules Identifier

Before you can create new transmissions, you must create a syntax rules identifier. To add a syntax rules identifier, do the following:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.

2. Click on the **B2B-TRADACOMS** link.

3. Click **New STDS - Syntax Rules Identifier**.

4. In the Name field, enter a name that corresponds to the B2B-TRADACOMS syntax version.

5. Click **Save**.

Adding a Transmission to a Syntax Rules Identifier

To add a transmission to a syntax rules identifier, do the following:

1. Click the radio button next to a syntax rules identifier.

2. Click **New Transmission**.

   Operation type that can be selected: APRF-Application Reference

3. Click **OK**.

Configure the Transmission

To configure the transmission, enter information into the following tabs, then click **Save**:

- General Tab, page 28
- Guideline Tab, page 28
- Schema Tab, page 29

General Tab

Table 1   General Tab

Field	Description
Name	Name for the transmission
Description	Description for the transmission

Guideline Tab

Table 2   Guideline Tab

Field	Description
Transmission Guideline (.sef or .std)	This field shows the current message guideline. It allows you also to change/add or to remove the existing message guideline. Load a guideline file.
Validator Profile file (.apf)	This field shows the current validator profile file (the default is no file). It allows you also to change/add or to remove the existing validator profile file.

Schema Tab

Table 3   Schema Tab

Field	Description
Transmission Schema (.xsd)	Load a transmission schema.
Request Root Element Name	
Transmission to XML translation Map file (.map)	Load a map file.
XML to Transmission translation Map file (.map)	Load a map file.

Importing and Exporting Syntax Rules Identifiers

Import a Syntax Rule Identifier

To import a syntax rules identifier, do the following:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.

2. Click **Import**.

3. Click **change**.

4. Click **Browse..**

5. Navigate to a directory containing a message group and select the file (.csx).

6. Click **Open**.

7. Click **OK**.

8. Enter a password (optional).

9. Click **Import and Done.**

Export all Syntax Rules Identifiers

To export syntax rules identifiers, do the following:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.

2. Select the **B2B-TRADACOMS** link.

3. In the Edit Operations: B2B-TRADACOMS dialog, click on the topmost plus (+) sign to display all B2B-TRADACOMS syntax rules identifiers and transmissions.

   Select the radio button next to the syntax rule identifier or transmission you wish to export.

4. Click **Export***XXX*, where *XXX* is **STDS-Syntax Rules Identifier** or **Transmission**, depending on what you selected in the previous step.

5. Set a password (optional), and click **Export Data**.

6. The Save As dialog displays with operations.csx as the suggested file name.

7. Click **Done**.

Chapter 4   **Setting Up Trading Hosts**

This chapter describes setting up trading hosts in TIBCO BusinessConnect B2BPlugin for CMI for the B2B-TRADACOMS protocol.

Topics

Configuring the B2B-TRADACOMS Protocol

To enable the B2B-TRADACOMS protocol:

1. Click the **BusinessConnect > Participants** link in the left panel.

2. Click a host participant link in the right panel.

3. Click the **Protocols** tab.

4. If B2B-TRADACOMS does not appear in the list of protocols:

    a. Click **Enable**.

    b. Check the **B2B-TRADACOMS** checkbox.

    c. Click **OK**.

5. Click the **B2B-TRADACOMS** link.

    The following configuration options are available:

    —

    —

6. Click **Save**.

General Tab

Use the General tab to set host general properties for B2B-TRADACOMS.

Table 4   General Fields

Field	Description
Default Transmission Code Name	The transmission code and name to use for this trading host.
	For inbound documents, the code and name will be matched against the values of this field to ensure that the inbound document was intended for this host.
	Add a Default Transmission Code Name
	To add a default transmission code and name:
	1. Click the **Add New** link.
	2. Click the **Add New** button.
	Select a transmission code from the Transmission Code drop-down list. This is mapped to the transmission code used by the host; for example, specify 1 for a D-U-N-S number.
	3. Enter the mandatory name for the partner in the Name field. For example, 123456789 is the fictitious D-U-N-S number used in the tutorial. Either code or name must be present. Both cannot be null.
	4. Click **Save** and **OK**.
AS2 Identifier	The identifier to use in the `AS2-To` header field of the HTTP message, which should be mutually agreed upon between trading partners. This identifier can be an interchange ID. This only applies when using AS1 or AS2 transport.
Valid Email Address List	The identifier to use in the From header field of the SMTP MIME message. This email address list can be a list of email addresses. For an outbound document sent to the trading partner through SMTP transport, the first email address is used in the From header. For incoming email from the mail server, the To email address from the email is matched to one of the email addresses in this list. This only applies when using AS1 or AS2 transport.

Advanced Tab

Use the Advanced tab to specify advanced settings to perform the task Publish Request as File Reference.

Table 5   Host Record Advanced Fields

Field	Description
Inbound	
Threshold to Publish Request as File Reference (bytes)	Specify a file size in bytes. BusinessConnect writes EDI requests that are this size and larger to a file and sends a reference to that file instead of the request itself. A value of 1000 is often appropriate. This can decrease memory usage within the EDI processing component, improving performance.
Include Date Folder	If selected, the `date` folder is added to the document path.
	If cleared, the `date` folder is omitted and the document is stored under the *tpName* directory.
Store Location	An existing directory under the TIBCO installation directory. Within this directory, BusinessConnect creates an In directory for inbound and files. BusinessConnect stores the EDI files in a subdirectory named for the trading partner.
	This field is required.

Chapter 5 **Setting Up Trading Partners**

This chapter describes setting up trading partners for B2B-TRADACOMS.

Topics

Configuring the B2B-TRADACOMS Protocol for a Partner

To configure the B2B-TRADACOMS protocol:

1. Click the BusinessConnect **> Participants** link in the left panel.

2. Click a partner participant link in the right panel.

3. Click the **Protocols** tab.

4. If B2B-TRADACOMS does not appear in the list of protocols:

   a. Click **Enable**.

   b. Check the **B2B-TRADACOMS** checkbox.

   c. Click **OK**.

5. Click the **B2B-TRADACOMS** link. The following configuration options are available:

   — General Tab, page 37

   — Transports Tab, page 38

General Tab

To configure the General tab and set the partner general properties for B2B-TRADACOMS use Table 6.

Table 6   Setting Up a Partner: General Tab

Field	Description
Default Transmission Code Name	The transmission code name to use for this trading partner.
	For inbound documents, the transmission code name is used to identify the sender.
	Add a Default Transmission Code Name
	To add a default transmission code name:
	1. Click the **Add New** link associated with the Default Transmission Code Name.
	2. Click the **Add New** button.
	3. Select a transmission code from the Transmission Code drop-down list. This is mapped to the transmission code used by the host. For example, specify 1 for a D-U-N-S number.
	4. Enter the mandatory name for the partner in the Name field. For example, 123456789 is the fictitious D-U-N-S number used in the tutorial.
	5. Click **Save**.
AS2 Identifier	The identifier to use in the AS2-To header field of the HTTP message. This identifier should be mutually agreed upon between trading partners. This identifier can be an interchange ID. This only applies when using AS2 transport.
Valid Email Address List	The email address that is used to match against incoming email from the mail server. If the incoming email From address matches to any email address in this list, then this trading partner is picked as the receiving party. This only applies when using AS1 or AS2 transport.

Transports Tab

Use the Transports tab to configure outbound transport settings for this trading partner. To add an outbound transport, click **Add** in the Transports tab. The following transports are available for use with this protocol:

- HTTP
- FTP/S
- FILE
- AS2-HTTP/S
- AS1-EMAIL
- EMAIL
- SSHFTP
- Inbox

  Inbox option is available in order to allow for document exchange between partners running TIBCO BusinessConnect B2BPlugin for CMI and one of these products:

  — TIBCO BusinessConnect Plug-in for SSH Server

  — TIBCO BusinessConnect Plug-in for FTP Server

  — TIBCO PartnerExpress

  For more information, see *TIBCO BusinessConnect B2BPlugin for CMI, User's Guide*, Set Up Trading Partner Transport via Inbox

The steps required for configuring transports are the same for all protocols. Refer to the Transports chapters in *TIBCO BusinessConnect Trading Partner Administration Guide*.

The transports you configure serve as the default transports for all business agreements associated with this partner. You can override the default transport settings as part of the business agreement.

Chapter 6 **Configuring Agreement Protocol Bindings**

This chapter explains how to con figure protocol bindings for business agreements.

Topics

Overview

An agreement protocol binding is contained within a business agreement. For information on business agreements, see *TIBCO BusinessConnect Trading Partner Administration*.

Overriding of general settings for a participant per agreement protocol binding is not supported for TIBCO BusinessConnect B2BPlugin for CMI.

Add Protocol Binding

To add an agreement protocol binding:

1. Click the BusinessConnect **> Business Agreements** link in the left panel.

2. Click a business agreement link in the right panel.

3. Click the **Add Protocol Bindings** button.

4. Check **B2B-TRADACOMS**.

5. Click **OK**.

6. Click the **B2B-TRADACOMS** agreement protocol binding link.

   The following configuration options are available:

   — Operation Bindings on page 41

   — Document Security Tab on page 43

   — Transports Tab on page 44

Operation Bindings

Use the Operation Bindings tab to configure the B2B-TRADACOMS transactions that each participant in a business agreement can initiate and respond to.

The following properties apply to all the transactions that you import in the Operations Editor:

- **Allow All Operations** Enables participants to initiate all operations configured in BusinessConnect. You can modify the behavior of one or more operations by binding the operations in the Host *'X'* Can Initiate and Partner *'Y'* Can Initiate areas. If unchecked, operations must be explicitly bound in the Host *'X'* Can Initiate and Partner *'Y'* Can Initiate areas.

- **Non Repudiation Logging** Enables logging of all operations in the non-repudiation log.

Add Operation Binding

The Host *'X'* Can Initiate area (where *X* is the host participant in the business agreement) lists the transactions that the host can initiate and the partner can respond to. The Partner *'Y'* Can Initiate area (where *Y* is the partner participant in the business agreement) lists the transactions that the partner can initiate and the host can respond to.

To bind a transaction in either area, do the following:

1. Click **Add Operation Bindings**.
2. Click the topmost + to expand the transaction tree.
3. Check the transaction.
4. Click **OK**.

Edit an Operation

To edit a B2B-TRADACOMS operation, click on operation binding link.

> When no guidelines are given for the operation binding with the Override Operation Settings enabled and with Allow all Operation checkbox selected, the guideline in the operations editor will take effect.

The following options are available:

- Operation Settings Tab, page 42

- Transports Tab, page 42

Operation Settings Tab

To override the settings for a message, check the **Override Operation Settings** checkbox and then select one of the following from the drop-down list:

Guideline Option

Changing the settings in this dialog overrides all the same settings made in the Operations Editor. See Guideline Tab, page 28.

Transports Tab

This tab is used for overriding of outbound transport settings:

Table 7 Configuring Business Agreement: Transports Tab

Override Transports	When checked, overrides the transports set in participant's configuration.
Override Outbound Transports	
Primary Transport	Select from the dropdown list: • Current transport (such as HTTP Email, AS1, AS2-HTTP, AS2-HTTPS, AS2HTTPSCA, FILE, FTP, FTPS, SSHFTP, or Inbox) • None
Backup Transport	Select from the dropdown list: • Current transport (such as HTTP Email, AS1, AS2-HTTP, AS2-HTTPS, AS2HTTPSCA, FILE, FTP, FTPS, SSHFTP, or Inbox) • None

Document Security Tab

Use the Document Security tab to specify security information for trading partners. The keys and certificates selected in the tab are set in the host and partner participant's Credentials tabs.

See *TIBCO BusinessConnect Trading Partner Administration Guide* for information on how to set credentials. The properties listed in Table 8 can be set for inbound and outbound document exchange.

All PGP fields apply only to the B2B-X12 (and not to the B2B-TRADACOMS) protocol.

Table 8   Document Security Fields

Field	Description
Outbound Doc Exchange	
Signing Key	The key the host uses to sign a message in order to identify itself to a partner. The partner uses the host's certificates file to authenticate the host by verifying the digital signature of the host.
Digest Algorithm	The algorithm used to create the digest used for the signature. Selection are: SHA1,MD5, SHA256,SHA384 and SHA512.
Encryption Info Settings	
Encryption Certificate	The certificates file the host uses to encrypt a document before sending it to the partner. The partner uses its own host key identity file to decrypt the document.
Encryption Algorithm	The algorithm used to encrypt documents.
Inbound Doc Exchange Signing Info Settings	
Verification Certificate	The partner identifies itself by signing a document with its own host identity file. The host uses this certificate to authenticate a partner by verifying the digital signature of the partner. You must obtain this certificate from the host in advance.
Encryption Info Settings	
Decryption Key	The host uses part of the host key identity file to decrypt a document that the partner encrypted using the host's certificates file.

Transports Tab

Use the Transports tab to set transport information for a transporting Gateway. A transporting Gateway can be shared by multiple B2B-EDIFACT and B2B-X12 trading partners, while it is not supported for partners using the B2B-TEXT protocol.

The top section of the tab is used for selecting transports for the outbound, or host to trading partner, direction. The bottom section of the tab is used for selecting and configuring transports for the inbound, or trading partner to host, direction.

Set the Outbound Transport for the Host

Select an outbound primary and backup transport. The transports are configured in a trading partner's Protocols > Transports tab.

See .

Table 9   Outbound Transport for the Host

Field	Description
Primary Transport	See the Transports chapters in the *TIBCO BusinessConnect Trading Partner Administration*.
Backup Transport	TIBCO BusinessConnect B2BPlugin for CMI supports a backup outbound transport for sending files to the trading partner. This backup transport is used if the file could not be sent via the primary transport configured in the business agreement. Such situation may happen if the trading partner's server is not available or has a wrong URL during the time the file is being sent: the file still needs to reach the server via some other means even after the primary transport retry was exhausted.

Backup transports are configured at the business agreement level and can be one of the supported BusinessConnect transports. The same rules apply for choosing a backup transport as for a primary transport. |

Table 9   Outbound Transport for the Host

Field	Description
AS2 Async MDN Reply Transport	Same as for TIBCO BusinessConnect: select any of the configured transports. The settings from the specified AS2 MDN Async Reply Transport field are used for sending async MDN responses back to your trading partner. Configuring the AS2 MDN Async Reply Transport is not necessary unless you would like to specify different values for the following HTTP transmission related settings: • Retry Count – default is 3 • Retry Interval – default is 60 seconds • Socket Timeout – default is 300 seconds (5 minutes) Any other settings specified in the AS2 MDN Async Reply Transport are ignored. The most common case for which you would specify this transport is when your trading partner is not acknowledging the receipt of your async MDNs within the default socket timeout period.
AS2 Async MDN Remote Server Certificate	Same as for TIBCO BusinessConnect. The Remote Server Certificate for the AS2 HTTPS transport is a SSL certificate that should be used for encrypting the data sent using HTTPS. This dropdown list contains all of the certificates that have been configured for the Trading Partner. You can select the one that was configured to be used for SSL encryption. **Note** The server certificate configuration is only required for Async MDNs via AS2 HTTPS transport.
Client Authentication Identity for HTTPS, FTPS, HTTPSCA	Choose between the transport that was set up as Client Authentication Identity for HTTPS, FTPS, HTTPSCA, or None.
Client Authentication Identity for SSHFTP	Choose between the transport that was set up as Client Authentication Identity for SSHFTP, or None.

Set the Inbound Transport for the Host

What displays in this area depends on the transports that are selected in the Inbound Public Transport Types area under the System Settings tab.

For further information, see the section on Deployment Configuration in the *TIBCO BusinessConnect Trading Partner Administration*.

Table 10   Inbound Transport Fields

Field	Description
HTTP/S	Allow HTTP/S connections from this partner directly or from a VAN. This also applies when the inbound connection is using the AS2 transport.
HTTPSCA/AS2	See *TIBCO BusinessConnect Trading Partner Administration*, Chapter 11, HTTP, HTTPS, and HTTPSCA Transports.
FTP/S	Allow the host to perform FTP/S connections with this partner. The host is the Initiator of the FTP process. Click Edit Settings to configure FTP/S. See *TIBCO BusinessConnect Trading Partner Administration Guide* for more information on how a host uses FTP.
EMAIL	Allow email from this partner or from a VAN. This also applies when the inbound connection is using the AS1 transport. If your partner uses EMAIL and a transporting Gateway to send EDI documents back to you through a VAN, you need to configure the FTP transport. You must use FTP to get your partner's documents from the VAN site. This is because a VAN receives documents for multiple trading partners, but does not forward those documents to the recipients.
FILE	Allow FILE connections from this partner. FILE is normally used for file exchange within an enterprise.

If your partner uses FILE and a transporting Gateway to send EDI documents back to you through a VAN, you need to configure FTP transport. You must use FTP to get your partner's documents from the VAN Gateway site. This is because a VAN receives documents for multiple trading partners, but does not forward those documents to the recipients. |
| SSHFTP | See *TIBCO BusinessConnect Trading Partner Administration*, Chapter 15, SSHFTP Transport. |

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