

# **TIBCO BusinessConnect™ B2BPlugin for CMI**

## **B2B-X12 Configuration**

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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

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- [Related Documentation, page viii](#)
- [Typographical Conventions, page ix](#)
- [Connecting with TIBCO Resources, page xi](#)

## Related Documentation

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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

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The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>TIBCO_HOME</i> <i>ENV_NAME</i> <i>b2bplugin_HOME</i>	<p>Many TIBCO products must be installed within the same home directory. This directory is referenced in documentation as <i>TIBCO_HOME</i>. The default value of <i>TIBCO_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco.</p> <p>Other TIBCO products are installed into an <i>installation environment</i>. Incompatible products and multiple instances of the same product are installed into different installation environments. An environment home directory is referenced in documentation as <i>ENV_NAME</i>. The default value of <i>ENV_NAME</i> depends on the operating system. For example, on Windows systems the default value is C:\tibco.</p> <p>TIBCO BusinessConnect B2BPlugin for CMI installs into a directory within <i>TIBCO_HOME</i> or <i>ENV_NAME</i>. This directory is referenced in documentation as <i>b2bplugin_HOME</i>. The default value of <i>b2bplugin_HOME</i> depends on the operating system. For example on Windows systems, the default value is C:\tibco\bc\version\protocols\b2bplugin.</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>
<b>bold code font</b>	<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 BusinessConnect™ B2BPlugin for CMI Installation and Configuration</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 names separated by a plus sign indicate 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.

## Connecting with TIBCO Resources

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### 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-X12 Overview

This chapter briefly describes the X12 standard and its use for Electronic Data Interchange (EDI). For a more complete description of the X12 standard, refer to the standard itself which can be found at the Data Interchange Standards Association (DISA) website: <http://www.disa.org>

### Topics

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- [Product Overview, page 2](#)
- [Document Structure, page 3](#)
- [Delimiters, page 6](#)
- [Acknowledgements, page 7](#)

## Product Overview

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EDI (Electronic Data Interchange) is the exchange of information between trading partners in which the information is formatted according to a set of common data format standards developed in the U.S. and Western Europe during the late 1970th. EDI standards define the vocabulary, syntax rules, and structure of electronic documents.

X12 is an EDI standard from the American National Standards Institute (ANSI). The Accredited Standards Committee (ASC) X12 develops and maintains the X12 standards. In the X12 standard, a transaction set contains the data for a well defined business function (for example, a purchase order). Today, there are more than three hundred X12 transaction sets used by more than thirty thousand organizations for nearly every facet of business-to-business operations.

## Document Structure

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An X12 document is a file containing EDI data to be exchanged between trading partners.

There are three basic structures in an X12 document. They are:

- [Interchange, page 3](#)
- [Functional Group, page 4](#)
- [Transaction Set, page 5](#)

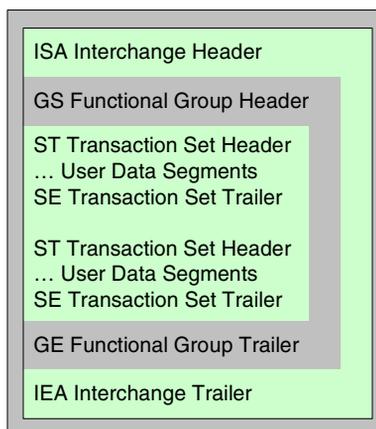
The following sections provide a basic description of each of these structures. For more detailed information on each of these structures, please refer to the X12 standard.

### Interchange

The interchange is the basic unit of electronic data transfer. Several interchanges can be bundled into a single file for data transfer.

An interchange is started by an interchange header (ISA segment) and terminated by an interchange trailer (IEA segment).

*Figure 1 Structure of X12 Interchange*



In X12, the interchange header (ISA) performs the following functions:

- Defines the delimiters used in the interchange
- Identifies the sender and receiver

- Provides control information for the interchange
- Allows for authorization and security information

The following example of an X12 interchange contains an 850 (purchase order) transaction set:

---

```

ISA~00~Authorizat~00~Security I~01~123456789      ~01~987654321
~040418~1338~U~00403~000000001~0~I~+^
GS~PO~Application Sen~Application Rec~20040418~1338~1~X~004030^
ST~850~0001^
BEG~00~CO~PO#39281~Release Number~20040418^
REF~.....
N1~.....
PO1~.....
PO1~.....
. . .
CTT~.....
SE~70~0001^
GE~1~1^
IEA~1~000000001^

```

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Normally all of the data in an X12 interchange would be on one line. The example here has the data split across several lines in order to fit on the page. However it is not unusual for X12 data to be split on segment boundaries or even blocked at a particular number of characters.

## Functional Group

A functional group is a group of similar transaction sets, for example, three purchase orders.

It is a group of one or more related transaction sets sharing the same functional group ID. Functional groups start with the segment GS Functional Group Header and end with the segment GE Functional Group Trailer.

The details in the Functional Group GS/GE envelope are often used to route the group's transaction sets to the appropriate department or business application within a company.

## Transaction Set

A transaction set contains the data for a well defined business function. For example, there are X12 transaction sets for purchase orders, invoices, and financial statements.

A business transaction is defined by a transaction set composed of a number of segments of variable lengths. Each segment is in turn composed of a number of data elements of variable lengths. A transaction set is analogous to a business document, such as a purchase order; a segment is analogous to a line of information in that purchase order; and a data element is analogous to a unit of information in the item line. For example, in the purchase order for a book, the number of copies requested or the unit price would be represented by data elements.

### Transaction Set Header and Transaction Set Trailer

Each transaction set starts with a transaction set header (ST), followed by a beginning segment that uniquely identifies the type of transaction set. The transaction set header contains the transaction set identification and transaction set control number. This is followed by other segments (which may also be found in other transaction sets) and concluded by a transaction set trailer.

The transaction set trailer (SE) is the last element in the transaction set. It defines the end of the transaction set and contains the number of segments included and the transaction set control number.

## Delimiters

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Delimiters separate various syntax structures of an X12 document.

Delimiters consist of three separators and a terminator. Each interchange in an X12 document specifies the set of delimiters to use for that interchange.

The delimiters to be used in the interchange are defined in the interchange header segment (ISA). The delimiters are:

- Data element separator
- Component element separator
- Replacement character
- Segment terminator

The delimiter characters defined in the ISA segment must not be used in a data element value elsewhere in the interchange. However, defined delimiter characters can appear within a binary data element.



Only one character per delimiter can be used for X12 Protocol.

## Acknowledgements

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Acknowledgements for X12 documents fall into three categories:

- [Delivery Acknowledgements, page 7](#)
- [Syntactic Response Acknowledgements, page 7](#)
- [Business Application Acknowledgements, page 8](#)

You must have an agreement with your trading partner in order to use acknowledgements.

### Delivery Acknowledgements

There are two interchange delivery acknowledgements:

- **Interchange acknowledgement segment (TA1)**

An interchange acknowledgement segment (TA1) reports the receipt of the contents of one interchange control header and trailer envelope in which the envelope surrounds one or more functional groups. The TA1 reports the results of the syntactical analysis of the interchange control header and trailer. Each interchange exchanged between trading partners may contain interchange-level control segments (TA1s) related to prior interchanges.

- **Interchange delivery notice segment (TA3)**

An interchange delivery notice (TA3) reports the delivery status of a document, when an intermediary is used to transfer documents between an interchange sender and interchange receiver.

### Syntactic Response Acknowledgements

There are two syntactic response acknowledgements:

- **Functional acknowledgement (997)**

The functional acknowledgement (997) describes the syntax-level acknowledgement of the receipt of an X12 functional group.

- **Implementation acknowledgement (999)**

The implementation acknowledgement (999) is first available in the X12 004061 subrelease. It is used for reporting the status of implementation guide syntax edits.

## Business Application Acknowledgements

There are two types of business application acknowledgements:

- **Application advice (824)**

The application advice (824) reports the results of an application system's data content edits on a transaction set. The results of editing transaction sets can be reported at the functional group and transaction set level, in either coded or free-form format.

The 824 is designed to report the following for a transaction set:

- Acceptance
- Rejection
- Acceptance with change

- **Specific response transaction (Example, 271 response to a 270)**

The status of a transaction set can also be reported by using a *specific response transaction* set as a response to the original transaction set.

The following are examples of transaction set pairs where the status of the original transaction set is indicated in the response transaction set:

- 271 response to a 270
- 855 response to an 850
- 870 response to an 869

## Chapter 2    **Tutorials — Getting Started**

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

You will configure trading partner information, configure a private process to communicate with TIBCO BusinessConnect B2BPlugin for CMI, and run the tutorials.

### Topics

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- [Prerequisites, page 10](#)
- [Configuring the Initiator, page 11](#)
- [Configuring the Initiator, page 11](#)
- [Configuring Private Processes, page 16](#)
- [Running the Tutorial, page 19](#)

## Prerequisites

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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 X12 standard, read [Chapter 1, B2B-X12 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

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This section steps you through the activities you need to perform to configure a host and a trading partner on an Initiator machine that runs on the Windows platform.

As explained before, this tutorial is run on a single (Initiator) machine and when the 850 transaction is sent to the trading partner, the transport properties are defined to store the request in a directory on the local file system.

To proceed with the tutorial, do the following:

- [Set Up a Host, page 11](#)
- [Set Up a Partner, page 13](#)
- [Configure the Business Agreement, page 15](#)
- [Deploy the Initiator Server, page 15](#)

### Set Up a Host

To set up a trading host on the Initiator machine, follow these steps:

1. [Start Creating a New Host, page 11](#)
2. [Set the Interchange Qualifier and ID for the Host, page 12](#)
3. [Activate the Host](#)

### Start Creating a New Host

To create and set up the default host, do the following:

1. Using TIBCO Administrator, select **Business Connect > Participants**.
2. Click the **New** button in the right panel.
3. Type **company1** in the Name field.
4. Select **Host** in the Type drop-down list.
5. Click **OK**.
6. Click **Save**.

### Enable the B2B-X12 Protocol for the New Host

All B2BPlugin protocols are enabled by default after installation. In order to configure and activate any of the protocols, you must 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.

1. Select the new Host and click on the Protocols tab.
  - a. Select the checkboxes next to B2BPlugin protocols other than B2B-X12.
  - b. Click **Disable**

If protocols have not been enabled:

- a. Click **Enable**
- b. Select the checkbox next to B2B-X12 and click **OK**.

### Set the Interchange Qualifier and ID for the Host

1. Click the **B2B-X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field.
3. Click the **Add New** button.
4. In the Interchange Qualifier drop-down list, select a qualifier such as **02**.  
In the ID field type a name, such as **123456789**.
5. Click **Save** and **OK**.
6. In the Default Interchange Qualifier ID drop-down list, select **02-123456789**.

### Define the Store Location

1. Select the **Advanced** tab.
2. In the Store Location window, type the location on the machine where the files will be stored by BusinessConnect (such as C:/testBCB2B).
3. Click **Save** twice.

### Activate the Host

1. Select **BusinessConnect > Participants** again.  
Verify that the host, Company 1, has the Domain Identity you defined in the step [Set the Interchange Qualifier and ID for the Host](#): (02)123456789.
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 enabled and a qualifier/ID and store location are provided.

5. Select **BusinessConnect>System Setting>General Settings** 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 13](#)
- [Enable the B2B-X12 Protocol for the Partner, page 13](#)
- [Set the Interchange Qualifier and ID for the Partner, page 14](#)
- [Set the Transport, page 14](#)

### 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**.

The new partner **Company2** appears on the Participants list, with no identity defined.

### Enable the B2B-X12 Protocol for the Partner

1. Select the link **Company2**.
2. Click the **Protocols** tab.
3. Click the **Enable** button.
4. **Check** the **B2B-X12** checkbox.
5. Click **OK**.

## Set the Interchange Qualifier and ID for the Partner

1. Click the **B2B-X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field.
3. Click the **Add New** button.
4. In the Interchange Qualifier drop-down list, select **02**.
5. In the ID field, type **987654321**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **02-987654321**.
9. Click **Save**.

## Set the Transport

To set the transport:

1. Click the **B2B-X12** link.
2. Click the **Transports** tab.
3. Click **Add**.
4. Provide the transport name as **FILE** and select **FILE** from the Transport Type drop-down list.
5. Click **OK**.
6. In the URL field, type **C:/tesBCB2B/out**.



Forward slashes are used in the path as opposed to the Windows backslash. This is because the fields of the TIBCO BusinessConnect console are HTML user interface text components. As with any HTML user interface text component, the backslash (\) is treated as an escape character.

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. Click the **Add Protocol Binding** button.
6. **Check** the **B2B-X12** checkbox.
7. Click **OK**.
8. Click the **B2B-X12** link.
9. Click the **Transports** tab.
10. Make sure that **FILE** is checked in the Primary Transport drop-down list in the Outbound Transports for Host 'Company1' area.
11. Click **Save** twice.

The new agreement between Company1 and Company2 with the enabled protocol B2B-X12 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 TIBCO BusinessConnect and start the server.

## Configuring Private Processes

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TIBCO BusinessConnect B2BPlugin for CMI contains a sample TIBCO ActiveMatrix BusinessWorks project that sends a B2B-X12 850 transaction to TIBCO BusinessConnect.

12. The example TIBCO ActiveMatrix BusinessWorks project can be found at `BC_HOME\protocols\b2bplugin\examples\bw\B2B-X12_850`.

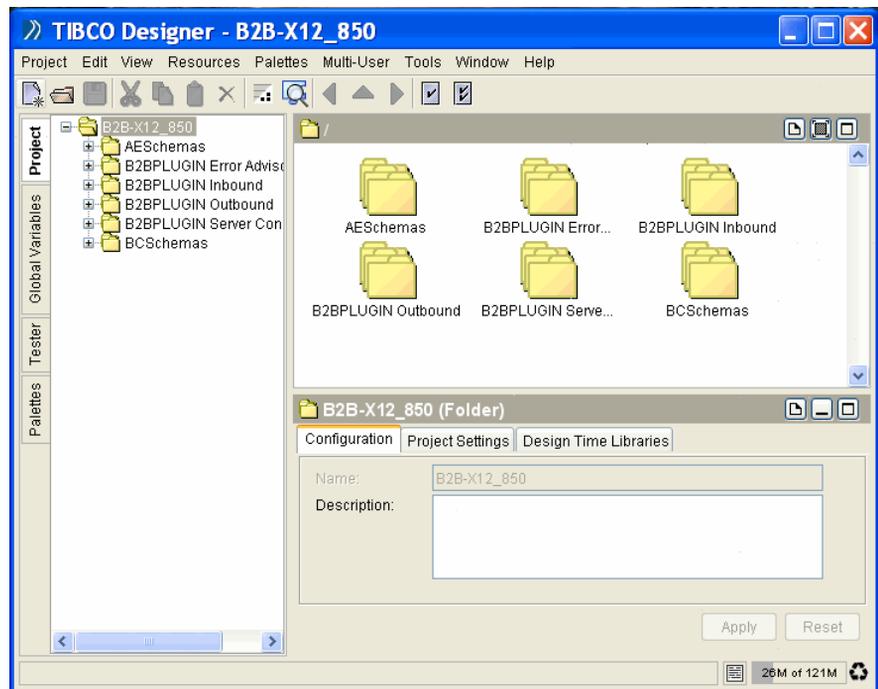
To open the sample project:

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-X12_850`
6. Select **B2B-X12\_850.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\examples\bw\B2B-X12_850`.
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 2](#) will display.

Figure 2 TIBCO ActiveMatrix BusinessWorks Project



15. Click the **Global Variables** tab.
16. Set **BCHome** to your TIBCO BusinessConnect installation directory and make sure that the **TPName** variable is defined as "Company2".
17. If you made any changes, save the project but do not exit TIBCO Designer.

## Configure Connections to BusinessConnect

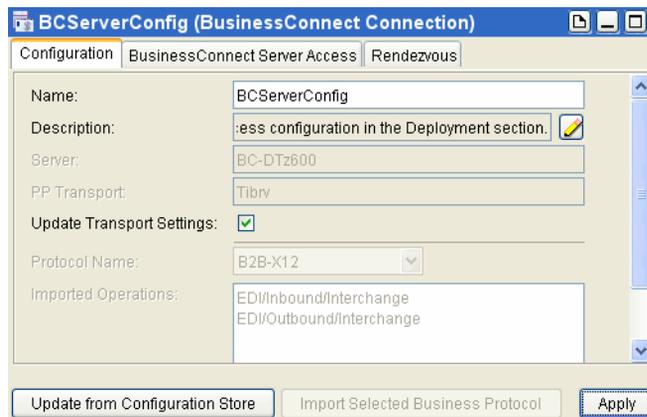
To configure connections to BusinessConnect, do the following:

1. Click the **Project** tab.
2. In the **B2BPLUGIN ServerConnection** folder, double-click **BCServerConfig**.
3. Select the **BusinessConnect Server Access** tab.
  - 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.
4. Click the **Configuration** tab.
  5. Click the **Update from Configuration Store** button. If you chose TIBCO Rendezvous as the transport for private communication, the software displays a TIBCO Rendezvous tab.
  6. Select **B2B-X12** from the Protocol Name drop-down list.
  7. Click the **Import Selected Business Protocol** button.

TIBCO ActiveMatrix BusinessWorks now retrieves schema information from the BusinessConnect configuration store and puts it in the BCschemas project folder.

Figure 3 BCServerConfig: Configuration



8. Click **Apply**.
9. Click the **Save** icon to save the project.

## Running the Tutorial

---

In this tutorial you will use TIBCO ActiveMatrix BusinessWorks and TIBCO BusinessConnect B2BPlugin for CMI running on one machine to send an X12 850 purchase order transaction to a trading partner.

Normally the trading partner is represented by another B2B engine running on another machine. However, this tutorial is run on a single machine and when the 850 transaction is sent to the trading partner, the transport properties are defined to store the request in a directory on the local file system.

The transaction set identifier information is as follows:

- Transaction set - 850
- Group version - 005010
- Interchange version - 00403

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

1. TIBCO Designer will read an EDI file which contains the data for an 850 transaction.

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

2. The EDI data will be sent to the trading partner.
3. The FILE transport will be used to simulate sending the interchange to the trading partner. By using the FILE transport, the B2B-X12 interchange will be written to a file on the local file system when it is sent to the trading partner.

## Process Types

The X12\_850 project contains several processes in two folders: B2B-X12 Message Processes and Error Advisory Processes.

The B2B-X12 Message Processes folder contains the following processes:

- B2BPlugin Outbound folder:
  - **Send Request Process** Reads an X12 850 document from a file and sends the document to BusinessConnect using the Send Request notification activity.
- B2BPlugin Error Advisories folder

This folder contains process that would be activated if TIBCO BusinessConnect were to send out any advisory messages during the processing of the 850 transaction.

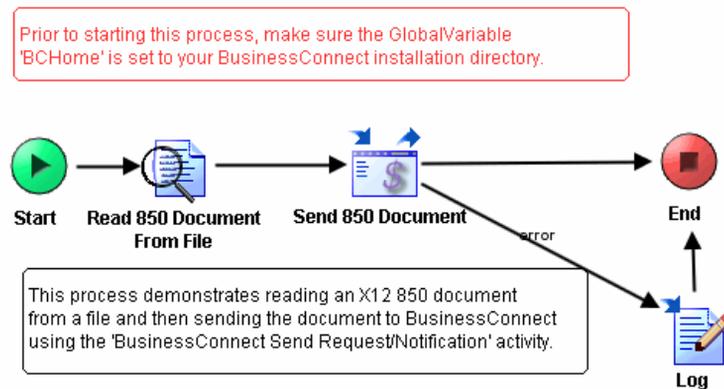
**Receive General Error Advisories** Shows how to use the activity BusinessConnect Receive Misc Msg to receive the General Error Advisory messages from BusinessConnect.

For more information on when TIBCO BusinessConnect would send out a general error advisory, refer to the *TIBCO BusinessConnect B2BPlugin for CMI, User's Guide*.

## Send the Request Process Transaction

To see the 850 transaction, select **B2BPLUGIN Outbound> Send Request Process**. The Send Request Process is shown in [Figure 4](#).

Figure 4 Send 850 Txn to BC



This process:

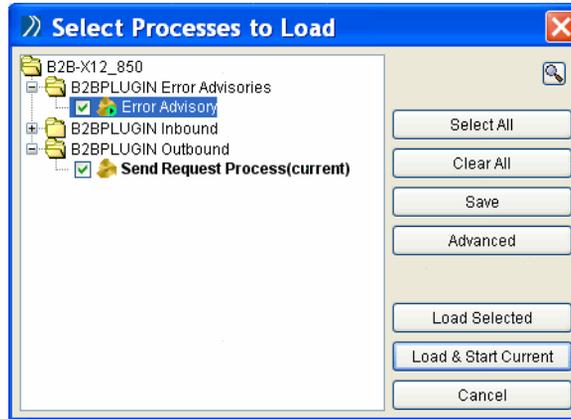
1. Reads an X12 850 document from a file.
2. Sends the document to BusinessConnect using the activity BusinessConnect Send Request/Notification.

## Run the Process

To run the process:

1. Select the **Tester** tab.
2. Select the **Start Testing Viewed Process** button 

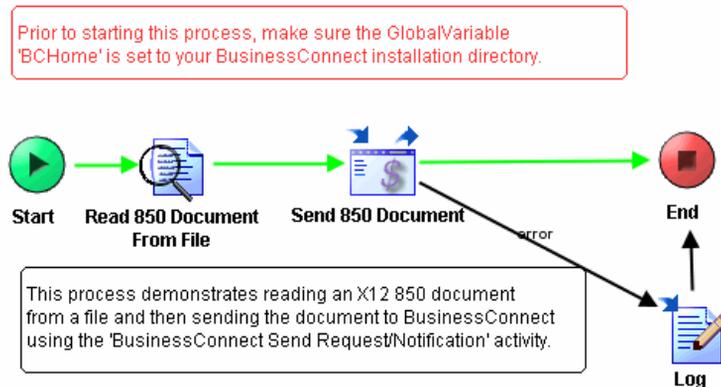
Figure 5 Select Process to Load



3. Check the checkbox next to **Send Request Process** in the B2BPLUGIN Outbound folder. Check the checkbox next to processes in the B2BPLUGIN Error Advisories folder.
4. Check the checkbox next to **Receive Request Process** in the B2BPLUGIN Inbound folder. Check the checkbox next to processes in the B2BPLUGIN Error Advisories folder.
5. Click **Load Selected**.

If everything was configured and run properly, you will get the result shown in [Figure 6, Send Request Process Completed](#).

Figure 6 Send Request Process Completed



## Expected Results

Once the 850 transaction is received by TIBCO BusinessConnect B2BPlugin for CMI:

1. The X12 data is sent to the trading partner.
2. The X12 interchange is written to a file on the local file system where it simulates sending the interchange to the trading partner.

What you can observe:

- The Send Request/Notification activity contains output that indicates the 850 transaction was successfully sent to the trading partner.
- The directory `c:\testBCB2B\out` should contain a file which contains the B2B-X12 850 transaction that was sent to the trading partner by TIBCO BusinessConnect B2BPlugin for CMI.
- The audit log should contain entries that for each processing state that occurred in TIBCO BusinessConnect. See [View the Audit Log on page 22](#).

## View the Audit Log

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

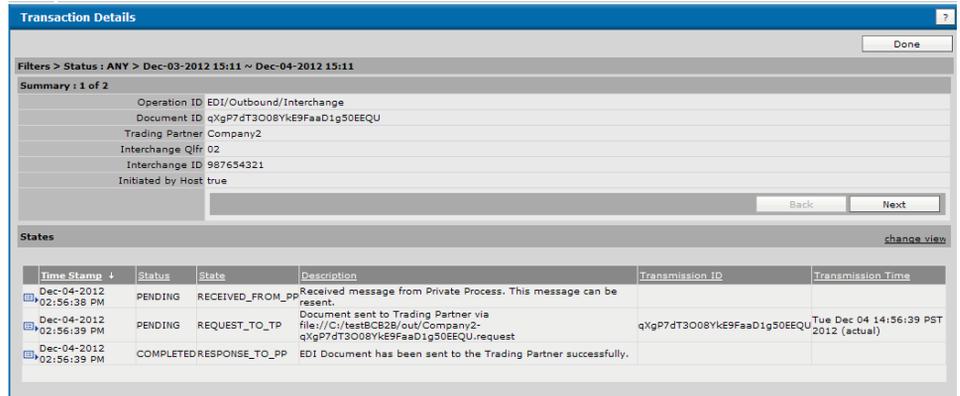
1. Using TIBCO Administrator, click the **BusinessConnect > Log Viewer** link in the left panel.
2. Click the **B2B-X12** link in the right panel.
3. The default search settings are already selected: Status ANY and Date Range One Day

Figure 7 Send 850 Txn To BC Audit Log

Date Group	Time Stamp (PDT)	Operation ID	Document ID	Trading Partner	Interchange OIfr	Interchange ID	Initiated by Host
LAST HOUR	Dec-04-2012 02:56:39	PMED1/Outbound/Interchange qXgP7dT3O08YkE9FaaD1g50EEQU		Company2	02	987654321	true
	Dec-04-2012 02:54:17	PMED1/Outbound/Interchange MZCaS3VhO0_2s_2E9FaZD1g50EEQU		Company2	02	987654321	true

- Click the **Details** icon  in the search results area for a specific operation to view the details of the transaction.

Figure 8 Transaction Details for the Send 850 Txn To BC Audit Log



The screenshot shows the 'Transaction Details' window with the following data:

**Filters > Status : ANY > Dec-03-2012 15:11 ~ Dec-04-2012 15:11**

**Summary : 1 of 2**

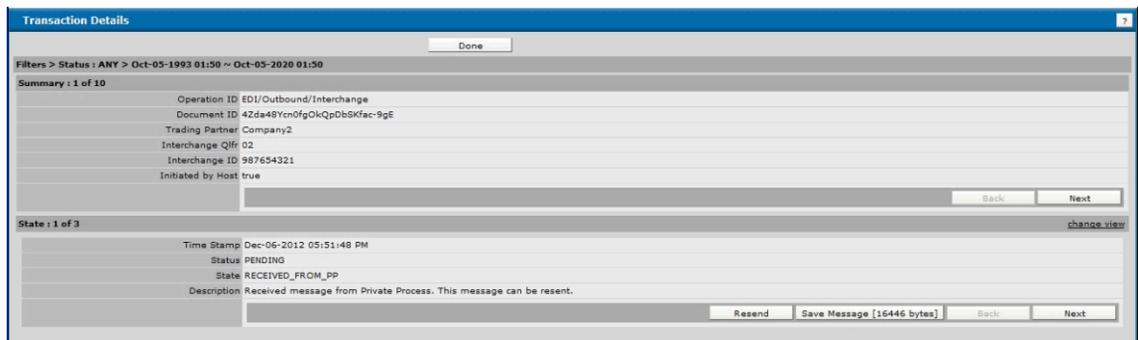
Operation ID: EDI/Outbound/Interchange  
 Document ID: qXgP7dT3008YkE9FaaD1g50EEQU  
 Trading Partner: Company2  
 Interchange Qlfr: 02  
 Interchange ID: 987654321  
 Initiated by Host: true

**States**

Time Stamp	Status	State	Description	Transmission ID	Transmission Time
Dec-04-2012 02:56:38 PM	PENDING	RECEIVED_FROM_PP	Received message from Private Process. This message can be resent.		
Dec-04-2012 02:56:39 PM	PENDING	REQUEST_TO_TP	Document sent to Trading Partner via file://C:/test/BCB28/out/Company2-qXgP7dT3008YkE9FaaD1g50EEQU.request	qXgP7dT3008YkE9FaaD1g50EEQU	Tue Dec 04 14:56:39 PST 2012 (actual)
Dec-04-2012 02:56:39 PM	COMPLETED	RESPONSE_TO_PP	EDI Document has been sent to the Trading Partner successfully.		

- Click on the icon  next to the specific transaction to see more details.

Figure 9 RECEIVED\_FROM\_PP



The screenshot shows the 'Transaction Details' window with the following data:

**Filters > Status : ANY > Oct-05-1993 01:50 ~ Oct-05-2020 01:50**

**Summary : 1 of 10**

Operation ID: EDI/Outbound/Interchange  
 Document ID: 4Zda48Ycn0fgOkQpDbsKfac-9gE  
 Trading Partner: Company2  
 Interchange Qlfr: 02  
 Interchange ID: 987654321  
 Initiated by Host: true

**State : 1 of 3**

Time Stamp: Dec-06-2012 05:51:48 PM  
 Status: PENDING  
 State: RECEIVED\_FROM\_PP  
 Description: Received message from Private Process. This message can be resent.

Buttons: Resend, Save Message [16446 bytes], Back, Next

The Detail View gives you all message details. It also indicates whether a particular message can be resent or saved.



## Chapter 3

# Managing X12 Interchanges, Functional Groups, and Transactions

This chapter describes how to manage B2B-X12 interchanges, functional groups, and transactions.

## Topics

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- [Overview, page 26](#)
- [Adding an Interchange Version, page 27](#)
- [Adding a Group Version to an Interchange Version, page 28](#)
- [Adding a Transaction to a Group Version, page 29](#)
- [Notification Transaction, page 30](#)
- [Synchronous Request Response Transaction, page 33](#)
- [Exporting Interchanges, Groups, and Transactions, page 40](#)
- [Importing an Interchange Version, page 41](#)
- [Exporting Interchanges, Groups, and Transactions, page 40](#)

## Overview

---

TIBCO BusinessConnect B2BPlugin for CMI B2B-X12 protocol uses three basic structures:

- Interchange
- Functional group
- Transaction

These structures are described in [Chapter 1, B2B-X12 Overview, page 1](#).

You use the TIBCO BusinessConnect console to configure the guidelines. Once you have configured transactions in the Operations Editor, the transactions can be seen during the configuration of your trading partners. The transactions can be allowed or disallowed, if necessary.

See [Operation Bindings Tab on page 59](#) for more information.

## Adding an Interchange Version

---

The first step in configuring an B2B-X12 transaction in the TIBCO BusinessConnect console is to add the interchange version:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Click on the **B2B-X12** link.
3. Click **New Interchange Version**.
4. In the Name field, enter a name that corresponds to the B2B-X12 interchange version number.
5. Add the description for the new interchange (optional).
6. Click **Save**.

## Adding a Group Version to an Interchange Version

---

To add a group version to an interchange version, do the following:

1. Click an interchange version radio button.
2. Click **New Group Version**.
3. Configure the options listed in [Table 1](#).

*Table 1 Group Version Fields*

Field	Descriptions
Name	A name that corresponds to the B2B-X12 standard version, release and subrelease which would be designated in the functional group header (GS) segment. For example, 004010 or 004030.
Description	Add a description for this group version (optional).
<b>Application Code</b>	
GS02 Sender	The application sender's code in the GS segment of an B2B-X12 document. This code identifies the party sending the B2B-X12 group. Codes are agreed upon between trading partners.
GS03 Receiver	The application receiver's code in the GS segment of an B2B-X12 document. This code identifies the party sending the B2B-X12 group. Codes are agreed upon between trading partners.
GS07 Responsible Agency Code	Accept or change the GS07 Responsible Agency Code.

- Click **Save**.

## Adding a Transaction to a Group Version

---

Once you have configured your interchange and group versions, you can add your B2B-X12 transaction. To add a transaction, do the following:

1. Click a group version radio button.
2. Click **New Transaction**.
3. Choose one of the following from the Transaction Type drop-down list:
  - **Notification** Continue with [Notification Transaction on page 30](#).
  - or
  - **Sync RequestResponse** Continue with [Synchronous Request Response Transaction on page 33](#).
4. Click **OK**.

## Notification Transaction

---

Notification transactions are asynchronous in nature: a transaction is sent to the trading partner and the response from the trading partner is expected at some later time.

- [Notification Transaction Tab, page 30](#)
- [Outbound Action Tab, page 32](#)

### Notification Transaction Tab

This tab contains three subtabs:

- [General Tab, page 30](#)
- [Guideline Tab, page 30](#)
- [Schema Tab, page 31](#)

#### General Tab

*Table 2 Notification Transaction: General Tab*

Field	Description
Name	A name for the transaction.
Description	Description for the transaction (optional)

#### Guideline Tab

*Table 3 Notification Transaction: Guideline Tab*

Field	Description
GS01 Functional Identifier Code	The mandatory code of the message. Example: P0. Entering the GS01 functional identifier that would normally be indicated in the Functional Group Header is needed by the EDI conversion engine.

Table 3 Notification Transaction: Guideline Tab

Field	Description
<b>Validation Guideline</b>	
Guideline File for validating X12 Partner data (.sef or .std)	<p>The guideline file associated with this message type. It is used to validate the EDI document that is received from a trading partner, or that is sent to the trading partner.</p> <p>Click <b>change</b> to select the guideline file associated with this message type. Then, follow the procedure described in the section File Specification Dialog in <i>TIBCO BusinessConnect Trading Partner Administration Guide</i>.</p>
Validator Profile File (.apf)	<p>Click <b>change</b> to select the Validator profile file.</p> <p>Validator profile files are used to check on errors and categorize them to different levels of severity. They are described in detail in <a href="#">Exporting Interchanges, Groups, and Transactions</a>.</p>

## Schema Tab

Table 4 Notification Transaction: Schema Tab

Field	Description
Transaction Schema (.xsd)	<p>Click <b>change</b> to select the schema file associated with this message type.</p> <p>The message schema is required for the EDI conversion engine. When a connection to TIBCO BusinessConnect is created in TIBCO Designer, loading the message schema into the TIBCO BusinessConnect configuration store allows it to be retrieved automatically by TIBCO Designer.</p>
Request Root Element Name	<p>Enter the name of the Transaction Schema root element from the above field.</p>
EDI to XML Translation Map file (.map)	<p>Click <b>change</b> to select the EDI to XML translation map file associated with this message type.</p> <p>When EDI to XML is selected as the inbound type of translation, then the appropriate B2B-X12 to XML translation map must be uploaded for the translation to occur.</p> <p>Note that EDI to XML translation map files generally have an extension <code>_EX.map</code>.</p>

Table 4 Notification Transaction: Schema Tab

Field	Description
XML to EDI Translation Map file (.map)	Click <b>change</b> to select the XML to EDI translation map file associated with this message type. Note that EDI to XML translation map files have an extension <code>_XE.map</code> .

## Outbound Action Tab

To configure the outbound action for the Notification transaction, enter information into the following tabs:

- [General Tab, page 32](#)

## General Tab

Table 5 Outbound Action: General Tab

Field	Description
Name	Enter a name for the action
Description	Enter the description for the outbound action
Direction	Initiator to Responder (pre-filled)

## Synchronous Request Response Transaction



Synchronous Request-Response transactions are applicable only for the HTTP transport.

Synchronous request-response transactions are transactions where a response transaction is expected to be returned quickly and using the same transport connection as the request transaction.



Make sure that the GS02 Sender Application value in the sent request .dat file ends with "R".

### Configure the Synchronous Request Response Transaction

To configure the Synchronous Request Response transaction, enter information into the following tabs, and then click **Save**:

- [General Tab, page 33](#)
- [Request Action Tab, page 37](#)
- [Response Action Tab, page 38](#)

#### General Tab

Table 6 *Synchronous Request Response Transaction: General tab*

Field	Description
Name	A name for the transaction. Example: 850.
Description	Description for the transaction (optional)
<b>Transaction Type</b>	
Acceptance Response	An acceptance response transaction type. This is the type of transaction expected as a response from your trading partner. For example, if 850 is the request transaction, the acceptance response transaction type is 855.
Rejection Ack	The rejection acknowledgement transaction type. This field indicates the type of transaction that would be expected to be returned as a response if the original request transaction had validation errors.  The default is 997.

## Guideline Tab

Table 7 Synchronous Request Response Transaction: Guideline Tab

Field	Description
<b>Request</b>	
GS01 Functional Identifier Code (for Request)	<p>The mandatory functional identifier code of the transaction. Entering the GS01 functional identifier that would normally be indicated in the Functional Group Header is needed by the EDI conversion engine.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• Request PO for an 850 purchase order transaction.</li> <li>• Acceptance Response PR for an 855 purchase order acknowledgement transaction.</li> <li>• Rejection Acknowledgement FA for a 997 functional acknowledgement transaction.</li> </ul>
<b>X12 Validation Guideline for Request</b>	
Request Guidelines File (.sef or .std)	<p>Provide the path to the inbound synchronous request guidelines file. You can override this field at the business agreement level. This guideline file is used to validate the EDI document that is received from a trading partner, or that is sent to a trading partner.</p> <p>Click <b>change</b> to select the Guidelines File (.sef or .std).</p>
Request Validator Profile File (.apf)	<p>Provide the path to the inbound synchronous request Validator Profile file that you want to suppress errors into warning or information. You can override this field at the business agreement level.</p> <p>Click <b>change</b> to select the Validator Profile file (.apf).</p>
<b>Acceptance Response</b>	
GS01 Functional Identifier Code (for Response)	<p>The mandatory functional identifier code of the transaction. Entering the GS01 functional identifier that would normally be indicated in the Functional Group Header is needed by the EDI conversion engine.</p> <p>Examples:</p> <ul style="list-style-type: none"> <li>• Request PO for an 850 purchase order transaction.</li> <li>• Acceptance Response PR for an 855 purchase order acknowledgement transaction.</li> <li>• Rejection Acknowledgement FA for a 997 functional acknowledgement transaction.</li> </ul>

Table 7 Synchronous Request Response Transaction: Guideline Tab

Field	Description
<b>X12 Validation Guideline for Response</b>	
Response Guidelines File (.sef or .std)	<p>Provide the path to the outbound synchronous response Guidelines file. You can override this field at the business agreement level.</p> <p>This guideline file is used to validate the synchronous response EDI document that is received from a trading partner, or that is sent to a trading partner.</p> <p>Click <b>change</b> to select the Guidelines File (.sef or .std).</p>
Response Validator Profile File (.apf)	<p>Provide the path to the outbound synchronous response Validator Profile file that you wanted to suppress errors into warning or informational if the responses have errors. You can override this field at the business agreement level.</p> <p>Click <b>change</b> to select the Validator Profile File (.apf).</p>
<b>Rejection Ack</b>	
GS01 Functional Identifier Code (for Acknowledgement)	<p>The mandatory code of the acknowledgement. Example: FA.</p> <p>Entering the GS01 functional identifier that would normally be indicated in the Functional Group Header is needed by the EDI conversion engine.</p>
Rejection Ack Guidelines File (.sef or .std)	<p>This guideline file would is used to validate the synchronous EDI rejection ack document that is received from a trading partner, or that is sent to a trading partner. Provide the path to the Rejection Ack Guidelines file. You can override this field at the business agreement level.</p> <p>Click <b>change</b> to select the Rejection Ack Guidelines File (.sef or .std).</p>

## Schema Tab

Loading the transaction schemas into the TIBCO BusinessConnect configuration store allows it to be retrieved automatically by TIBCO Designer when a connection to TIBCO BusinessConnect is created in TIBCO Designer. For further information refer to *Creating Private Processes in the TIBCO BusinessConnect B2BPlugin for CMI, User's Guide*.

Table 8 Synchronous Request Response Transaction: Schema Tab

Field	Description
<b>Request</b>	
Request Transaction Schema (.xsd)	To load the synchronous Request Transaction schema, and click <b>change...</b> to select the schema file for the synchronous request transaction. Example: X12_5010_850.xsd.
Request Root Element Name	Enter the name of the root element of the synchronous request Transaction Schema from the above field.
<b>Acceptance Response</b>	
Response Transaction Schema (.xsd)	To load the synchronous Response Transaction schema, and click <b>change...</b> to select the schema file for the synchronous response transaction. Example: X12_5010_850.xsd.
Response Root Element Name	Enter the name of the root element of the synchronous response Transaction Schema from the above field.
<b>Rejection Ack</b>	
Rejection Ack Transaction Schema (.xsd)	To load the Rejection Ack Transaction schema, and click <b>change...</b> to select the schema file for the rejection ack transaction. Example: X12_5010_997.xsd.
Rejection Root Element Name	Enter the name of the root element of the Transaction Schema from the above field.

## Request Action Tab

To configure the outbound action for the Notification transaction, enter information into the following tabs:

### General Tab

Table 9 Request Action: General Tab

Field	Description
Name	Request
Description	Enter the description for this action.
Direction	Initiator to Responder (pre-filled)

### Translation Map Tab

Table 10 Request Action: Translation Map Tab

Field	Description
<b>Request</b>	
Request XML to EDI Translation Map File (.map)	Click <b>change</b> to select the XML to EDI translation map file. This file is associated with this message type for sending XML from the private process to TIBCO BusinessConnect and is sent to the Trading Partner as a synchronous request. Note that XML to EDI translation map files have the extension <code>_XE</code> .
<b>Acceptance Response</b>	
Response EDI to XML Translation Map File (.map)	Click <b>change</b> to select the EDI to XML translation map file. When EDI to XML is selected as the inbound type of translation, then the appropriate B2B-X12 to XML translation map must be uploaded for the translation to occur. Note that EDI to XML translation map files have an extension <code>_EX.map</code> .

Table 10 Request Action: Translation Map Tab

Field	Description
<b>Rejection Ack</b>	
Rejection Ack EDI to XML Translation Map File (.map)	Click <b>change</b> to select the EDI to XML translation map file. When EDI to XML is selected as the inbound Type of Translation, then the appropriate B2B-X12 to XML translation map must be uploaded for the translation to occur. Note that EDI to XML translation map files have an extension <code>_EX.map</code> .

## Response Action Tab

### General Tab

Table 11 Response Action: General Tab

Field	Description
Name	Response
Description	Enter the description for this action.
Direction	Responder to Initiator (pre-filled)

### Translation Map Tab

Table 12 Response Action: Translation Map Tab

Field	Description
<b>Request</b>	
Request EDI to XML Translation Map File (.map)	Click <b>change</b> to select the EDI to XML translation map file. The appropriate B2B-X12 to XML translation map must be uploaded for the translation to occur. Note that EDI to XML translation map files have an extension <code>_EX.map</code> .

Table 12 Response Action: Translation Map Tab

Field	Description
<b>Acceptance Response</b>	
Response XML to EDI Translation Map File (.map)	Click <b>change</b> to select the EDI to XML translation map file. When XML to EDI is selected as the outbound type of translation, then the appropriate XML to B2B-X12 translation map must be uploaded for the translation to occur. Note that XML to EDI translation map files have an extension <code>_XE.map</code> .

## Exporting Interchanges, Groups, and Transactions

---

To export interchanges, groups, and transactions, do the following:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Select the **B2B-X12** link.
3. In the Edit Operations : B2B-X12 dialog, click on the topmost Plus (+) sign to show all existing transactions associated with the B2B-X12 protocol.
4. Click the radio button next to the interchange, group, or transaction you wish to export.
5. Click **ExportXXX**, where XXX is empty, **Interchange**, **Group**, or **Transaction**, depending on what you selected in [step 4](#).
6. Set a password (optional) and click **Export Data**.
7. The Save As dialog displays with `operations.csx` as the suggested file name.
8. Click **Save**.

## Importing an Interchange Version

---

To import a previously exported interchange version into the Operations Editor, do the following:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Select Group by **None** in the right corner.
3. Click the **Import** button.
4. Next to the Upload Configuration Data File field, click **change....**
5. Click **Browse**.
6. Navigate to a directory containing an interchange and select the file (.csx).
7. Click **Open**.
8. Click **OK**.
9. Enter a password in needed.
10. Click **Import**.



## Chapter 4 **Setting Up Trading Hosts**

This chapter describes how to set up trading hosts in TIBCO BusinessConnect B2BPlugin for CMI when using B2B-X12.

### Topics

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- [Configuring the B2B-X12 Protocol, page 44](#)
- [General Tab, page 45](#)
- [Advanced Tab, page 47](#)

## Configuring the B2B-X12 Protocol

---

Before you can enable the B2B-X12 protocol, the trading host has to be configured. To do that, see [Set Up a Host, page 11](#).

To enable the B2B-X12 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-X12 does not appear in the list of protocols:
  - a. Click **Enable Protocol**.
  - b. **Check** the **B2B-X12** checkbox.
  - c. Click **OK**.
5. Click the **B2B-X12** link. The following configuration options are available:
  - [General Tab, page 45](#).
  - [Advanced Tab, page 47](#).
6. Click **Save** after you finish with the configuration.

## General Tab

---

Use the General tab to set host general properties for B2B-X12.

Table 13 General Fields

Field	Description
Default Interchange Qualifier ID	<p>The interchange qualifier and ID to use for this trading host.</p> <ul style="list-style-type: none"> <li>For outbound documents, the qualifier and ID will be specified as the interchange sender qualifier and ID in the interchange header.</li> <li>For inbound documents, the interchange recipient qualifier and ID will be matched against the values of this field to ensure that the inbound document was intended for this host.</li> </ul>
	<p><b>Adding a Default Interchange Qualifier and ID</b></p> <p>To add a default interchange qualifier ID:</p> <ol style="list-style-type: none"> <li>Click the <b>Add New</b> link.</li> <li>Click the <b>Add New</b> button.</li> <li>Select a qualifier from the Interchange Qualifier drop-down list. This is mapped to the Interchange Qualifier used by the host. For outbound documents, the interchange qualifier is not validated for the sender of a document.</li> <li>Enter the mandatory identity for the local host in the ID field. This is mapped to the host's Interchange ID. For example, 123456789 is the fictitious DUNS number used in the tutorial. For outbound documents, the interchange ID is not validated for the sender of a document.</li> <li>Click <b>Save</b> and then <b>OK</b>.</li> </ol>
AS2 Identifier	<p>An identifier to use in the AS2-From header field of the HTTP message. This identifier should be mutually agreed upon between trading partners.</p> <p>This identifier can be an interchange ID. This only applies when using AS2 Transport.</p> <p><b>Add New</b> To use a new AS2 identifier:</p> <ol style="list-style-type: none"> <li>Click on the <b>Add New</b> link and then on the <b>Add New</b> button.</li> <li>Enter a name of the AS2 identity.</li> <li>Click the new AS2 identifier in the dropdown list.</li> </ol>

Table 13 General Fields

Field	Description
Valid Email Address List	<p>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.</p> <ul style="list-style-type: none"><li>• For an outbound document sent to the trading partner through SMTP transport, the first email address is used in the From header.</li><li>• 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.</li></ul>

- 
- Click the **Advanced** tab.

## Advanced Tab

---

Use the Advanced tab to specify advanced settings for Threshold to Publish Request as File Reference.

Table 14 Host Record Advanced Fields

Field	Description
<b>Inbound</b>	
Threshold to Publish Request as File Reference (bytes)	Specify a file size in bytes (default is <b>1000</b> ). TIBCO BusinessConnect writes 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	This checkbox is checked by default. It creates a file reference in a folder created based on the current date.
Store Location	Identify the directory in which TIBCO BusinessConnect should store the files. If this field is empty or the directory specified is not valid, TIBCO BusinessConnect does not store a file; it sends the request.

- Click **Save**.



## Chapter 5

# Setting Up Trading Partners

This chapter describes setting up your trading partners in TIBCO BusinessConnect B2BPlugin for CMI when using B2B-X12.

## Topics

---

- [Configuring the B2B-X12 Protocol, page 50](#)
- [General Tab, page 51](#)
- [Interchange Header Tab, page 52](#)
- [Group Header Tab, page 54](#)
- [Delimiters Tab, page 55](#)
- [Transports Tab, page 56](#)

## Configuring the B2B-X12 Protocol

---

Before you can enable the B2B-X12 protocol, the trading partner has to be configured. To do that, see [Set Up a Partner, page 13](#).

To enable the B2B-X12 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-X12 does not appear in the list of protocols:
  - a. Click **Enable Protocol**.
  - b. **Check** the **B2B-X12** checkbox.
  - c. Click **OK**.
5. Click the **B2B-X12** link. The following configuration options are available:
  - [General Tab, page 51](#)
  - [Interchange Header Tab, page 52](#).
  - [Group Header Tab, page 54...](#)
  - [Delimiters Tab, page 55](#).
  - [Transports Tab, page 56](#)
6. After you finish configuring all tabs, click **Save**.

## General Tab

---

Use the General tab to set partner general properties for B2B-X12 such as Interchange qualifier and ID

Table 15 General Fields

Field	Description
Default Interchange Qualifier ID	<p>The interchange qualifier and ID to use for this trading partner: for outbound documents, the qualifier and ID will be specified as the interchange receiver qualifier and ID in the interchange header; for inbound documents, the interchange sender qualifier and ID are used to identify the sender.</p> <p>To add a default interchange qualifier ID:</p> <ol style="list-style-type: none"> <li>1. Click the <b>Add New</b> link.</li> <li>2. Click the <b>Add New</b> button.</li> <li>3. Select a qualifier from the Interchange Qualifier drop-down list. Enter the mandatory domain name. This is mapped to the Interchange Qualifier used by the trading partner.</li> <li>4. Enter the mandatory identity for the partner in the ID field. This is mapped to the partner's Interchange ID. For example, 987654321 is the fictitious D-U-N-S number used in the tutorial.</li> <li>5. Click <b>Save</b> and <b>OK</b>.</li> <li>6. Select the new Interchange Qualifier ID in the dropdown list.</li> </ol>
AS2 Identifier	<p>An identifier to use in the AS2-To header field of the HTTP message. This identifier should be mutually agreed upon between trading partners.</p> <p>This identifier can be an interchange ID. This only applies when using AS2 Transport.</p> <p><b>Add New</b> To use a new AS2 identifier:</p> <ol style="list-style-type: none"> <li>1. Click on the <b>Add New</b> link and then on the <b>Add New</b> button.</li> <li>2. Enter a name of the AS2 identity.</li> <li>3. Click the new AS2 identifier in the dropdown list.</li> </ol>
Valid Email Address List	<p>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 recognized as the sender. This only applies when using AS1 or AS2 transport.</p>

- Click on the **Interchange Header** tab.

## Interchange Header Tab

Use the Interchange Header tab to specify the settings to use in composing the interchange header (ISA segment) for documents sent to this trading partner.

Table 16 Interchange Header Fields

Field	Description
<b>Outbound Authorization Information</b>	
ISA01 Qualifier*	Required. Code identifying the type of information specified in the ISA02 Information field.  Default value is 00 - No authorization information present.
ISA02 Information	Information used for additional identification or authorization of the interchange sender or the data in the interchange.
<b>Security Information</b>	
ISA03 Qualifier*	Required. Code identifying the type of information specified in the ISA04 Information field.  Default value is 00 - No security information present.
ISA04 Information	Security information about the interchange sender or the data in the interchange.
<b>Date and Time Formats</b>	
ISA09 Date Format*	Required. The date any outbound interchanges were prepared.  The macro YYMMDD can be specified to have the current system date inserted (in the designated format) into this field when an interchange is being prepared.
ISA10 Time Format*	Required. The time any outbound interchanges were processed.  The macro HHMM can be specified to have the current system time inserted (in the designated format) into this field when an interchange is being prepared.

Table 16 Interchange Header Fields (Cont'd)

Field	Description
<b>Others</b>	
ISA11 Control Standard (4012 And Lower)	The agency responsible for the interchange control standard used by the transaction that is enclosed by the interchange header and trailer. Default value is <b>U</b> .
ISA11 Repeating Separator (4020 and Higher)	Character used to separate repeated occurrences of a simple data element or a composite data structure. This character must differ from the data element separator, component element separator and the segment terminator. Default value is <b>*</b> . Earlier versions of B2B-X12 do not specify a repeating separator. In these earlier versions, an interchange control standard identifier is specified in the interchange segment instead.
ISA14 Ack Requested*	Required. Code sent by the sender to request an interchange acknowledgement. Default value is <b>0</b> - No interchange acknowledgement requested.
ISA15 Usage Indicator*	Required. Code indicating whether data enclosed by this interchange envelope is test, production or information. Default value is <b>P</b> - Production.
ISA16 Component Element Separator*	Character used to separate component data elements within a composite data structure. This character must differ from the data element separator, segment terminator, and repeating separator. The default value is <b>+</b> .

- Click the **Group Header** tab.

## Group Header Tab

Use the Group Header tab to specify the settings to use in composing the functional group header (GS segment) for transactions sent to this partner.

Table 17 Group Header Fields

Field	Description
<b>Outbound Application Code</b>	
GS02 Sender	The application sender's code in the GS segment of an B2B-X12 document that identifies the party sending the B2B-X12 group. Codes are agreed upon between trading partners.
GS03 Receiver	The application receiver's code in the GS segment of an B2B-X12 document. This code identifies the party sending the B2B-X12 group. Codes are agreed upon between trading partners.
<b>Date and Time Formats</b>	
GS04 Date Format*	<p>Required. The date any outbound groups were prepared.</p> <ul style="list-style-type: none"> <li>The macro CCYYMMDD can be specified to have the current system date inserted (in the designated format) into the GS04 field when a group is being prepared.</li> <li>The macro YYMMDD is used for earlier B2B-X12 versions where the GS04 field was designated as a 6 character field.</li> </ul>
GS05 Time Format*	<p>Required. This is the time any outbound groups were prepared and should be specified in 24-hour clock time. The macro HHMM can be specified to have the current system time inserted (in the designated format) into the GS05 field when a group is being prepared.</p>

- Click on the **Delimiters** tab.

## Delimiters Tab

Use the Delimiters tab to specify the delimiters to be used when composing B2B-X12 documents to be sent to this trading partner.



Only one character per delimiter can be used for B2B-X12 Protocol.



Each delimiter value must be unique; for example, the Segment Delimiter value cannot be set for the Element Separator, or for other delimiters.

For information on B2B-X12 delimiters, see [Delimiters, page 6](#).

Table 18 Delimiters Fields

Field	Character	Description
<b>Outbound</b>		
Segment Terminator *	' (apostrophe)	The character indicating the end of a segment. Segment Terminator should be a single character.
Data Element Separator *	~ (tilde)	The character used to separate data elements in a segment. Data Element Separator should be a single character.

- Click on the **Transports** tab.

## 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/S
- 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 essentially the same for all protocols. Refer to the transports chapters in *TIBCO BusinessConnect Trading Partner Administration Guide*. For EDI-specific transport configuration, see Chapter 4, File Masks in *TIBCO BusinessConnect B2BPlugin for CMI, User's 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.

# Configuring Agreement Protocol Bindings

This chapter explains how to configure protocol bindings for business agreements.

## Topics

---

- [Overview, page 58](#)
- [Operation Bindings Tab, page 59](#)
- [Overriding Outbound Settings for Notify, page 60](#)
- [Override Outbound Settings for Synchronous Response Request, page 62](#)
- [Document Security Tab, page 65](#)
- [Transports Tab, page 67](#)

## 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 configure 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 Binding** button.
4. Check the **B2B-X12** checkbox.
5. Click **OK**.
6. Click the **B2B-X12** agreement protocol binding link. The following configuration options are available:
  - [Operation Bindings Tab, page 59](#)
  - [Document Security Tab, page 65](#)
  - [Transports Tab, page 67](#)

## Operation Bindings Tab

---

Use the Operation Bindings tab to configure the B2B-X12 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 Hosts' Can Initiate and Partners' 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.  
Check the transaction.
3. Click **OK**.

The selected message is added to the Operation Name list.

You can continue by editing this operation binding.

## Overriding Outbound Settings for Notify

To override the outbound settings for a Notify operation binding, select it first.

- **Operation Settings** Override the default settings for this operation. See [Operation Settings Tab, page 60](#).
- **Transports** To override the transports for a transaction, check the **Override Transports** checkbox. Options in this tab override configuration set using the [Transports Tab, page 67](#).
- **Document Security** To override the document security for a transaction, check the **Override Document Security** checkbox. Options in this tab override configuration set using the [Document Security Tab, page 65](#).

### Operation Settings Tab



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

To override outbound settings for a Notify operation, check the checkbox **Override Operation Settings**. If you selected to override operation settings, continue by selecting one of the following from the drop-down list:

- [Guideline Option, page 60](#)
- [Schema Option, page 61](#)

### Guideline Option

If Guideline is selected, you can change or remove Validation Guidelines and TEXT Translation Guidelines as explained in [Table 19](#).

Table 19 Override Settings for Notify: Guideline

Field	Description
<b>Validation Guideline</b>	
Guideline File for validating B2B-X12 Partner data (.sef or .std)	The guideline file associated with this message type. Click <b>change</b> to select the guideline file associated with this message type. Then, follow the procedure described in the section File Specification Dialog in <i>TIBCO BusinessConnect Trading Partner Administration</i> .

Table 19 *Override Settings for Notify: Guideline*

Field	Description
Validator Profile File (.apf)	Click <b>change</b> to select the Validator profile file.  Validator profile files are used to check on errors and categorize them to different levels of severity. They are described in detail in <a href="#">Exporting Interchanges, Groups, and Transactions</a> .

## Schema Option

If Schema is selected, you can change or remove the Map file as explained in [Table 20](#).

Table 20 *Override Settings for Notify: Schema*

Field	Description
EDI to XML Translation Map file (.map)	Click <b>change</b> to select the EDI to XML or translation map file associated with this message type.  Note that EDI to XML translation map files have an extension <code>_EX.map</code> .

## Transports Tab

This configuration tab is available only for the Host. It provides the following options:

- **Override Transports** If selected, this option overrides the transports as explained in [Transports Tab, page 67](#).
- **Override Outbound Transports** You can override these transports by selecting which one is the Primary and which one is the Backup transport, or by selecting None (no changes).
  - **Primary Transport** Select one of the existing configured transports, or None.
  - **Backup Transport** Select one of the existing configured transports, or None.

## Document Security Tab

This configuration tab is available both for the Host and for the Partner. It provides the following options:

- **Override Document Security** If selected, this option overrides the transports.
- **Outbound Doc Exchange** See [Document Security Tab, page 65](#).

## Override Outbound Settings for Synchronous Response Request

---

To override the outbound settings for a Synchronous Response Request operation binding, select it first.

- **Operation Settings** Override the default settings for this operation. See [Operation Settings Tab, page 62](#).
- **Transports** To override the transports for a transaction, check the **Override Transports** checkbox. Options in this tab override configuration set using the [Transports Tab, page 67](#).
- **Document Security** To override the document security for a transaction, check the **Override Document Security** checkbox. Options in this tab override configuration set using the [Document Security Tab, page 65](#).

### Operation Settings Tab



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



If transactions of this operation are batched, then the override settings in this operation binding take effect only when these transactions are not transmitted in the same outbound transmission with other operation transactions. In addition, these overridings cannot take effect when the batch transmission is performed through a gateway.

To override outbound settings for a Synchronous Response Request, check the checkbox **Override Operation Settings**. If you selected to override operation settings, continue by selecting one of the following from the drop-down list:

## Guideline Option

If Guideline is selected, you can change or remove Validation Guidelines and TEXT Translation Guidelines as explained in [Table 19](#)

Table 21 *Override Settings for Synchronous Request Response: Guideline*

Field	Description
<b>X12 Validation Guideline for Request</b>	
Request Guidelines File (.sef or .std)	<p>Provide the path to the inbound synchronous request guidelines file. You can override this field at the business agreement level. This guideline file is used to validate the EDI document that is received from a trading partner, or that is sent to a trading partner.</p> <p>Click <b>change</b> to select the Guidelines File (.sef or .std).</p>
Request Validator Profile File (.apf)	<p>Provide the path to the inbound synchronous request Validator Profile file that you want to suppress errors into warning or information. You can override this field at the business agreement level.</p> <p>Click <b>change</b> to select the Validator Profile file (.apf).</p>
<b>Acceptance Response</b>	
<b>X12 Validation Guideline for Response</b>	
Response Guidelines File (.sef or .std)	<p>Provide the path to the outbound synchronous response Guidelines file. You can override this field at the business agreement level. This guideline file is used to validate the synchronous response EDI document that is received from a trading partner, or that is sent to a trading partner.</p> <p>Click <b>change</b> to select the Guidelines File (.sef or .std).</p>
Response Validator Profile File (.apf)	<p>Provide the path to the outbound synchronous response Validator Profile file that you wanted to suppress errors into warning or informational if the responses have errors. You can override this field at the business agreement level.</p> <p>Click <b>change</b> to select the Validator Profile File (.apf).</p>

Table 21 *Override Settings for Synchronous Request Response: Guideline*

Field	Description
<b>Rejection Ack</b>	
Rejection Ack Guidelines File (.sef or .std)	<p>This guideline file would be used to validate the synchronous EDI rejection ack document that is received from a trading partner, or that is sent to a trading partner.</p> <p>Provide the path to the Rejection Ack Guidelines file. You can override this field at the business agreement level.</p> <p>Click <b>change</b> to select the Rejection Ack Guidelines File (.sef or .std).</p>

## Transports Tab

This configuration tab is available only for the Host. It provides the following options:

- **Override Transports** If selected, this option overrides the transports as explained in [Transports Tab, page 67](#).
- **Override Outbound Transports** You can override these transports by selecting which one is the Primary and which one is the Backup transport, or by selecting None (no changes).
  - **Primary Transport** Select one of the existing configured transports, or None.
  - **Backup Transport** Select one of the existing configured transports, or None.

## Document Security Tab

This configuration tab is available both for the Host and for the Partner. It provides the following options:

- **Override Document Security** If selected, this option overrides the transports as explained in [Table 22, Document Security Fields](#).

## 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* for information on how to set Credentials. The properties listed in [Table 22](#) can be set for inbound and outbound document exchange

### Override Document Security

When this checkbox is checked, the configured document security settings will be overridden.



The document security settings you configure in the business agreement are the default values. You can override these values only for outbound documents.

Table 22 Document Security Fields

Field	Description
<b>Outbound Doc Exchange Signing Info Settings</b>	
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 to be used for digital signatures: SHA1, SHA256, SHA384, SHA512, MD5
PGP Signing Private Key	The PGP key the host uses to sign a message in order to identify itself to a partner.
PGP Hash Algorithm	The PGP algorithm used to create the digest to be used for digital signatures: MD5, SHA1, RIPEMD160, MD2
<b>Encryption Info Settings</b>	
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. You must obtain this certificate from the host in advance.

Table 22 Document Security Fields (Cont'd)

Field	Description
Encryption Algorithm	The algorithm used to encrypt documents: DES3, RC2-40, RC2-128, AES-128, AES-192, AES-256.
PGP Encryption Public Key	The PGP public key the host uses to encrypt a document before sending it to the partner.
PGP Encryption Algorithm	The PGP algorithm used to encrypt documents: DES3, BLOWFISGH, CAST5, AES-128, AES-192, AES-256.
<b>Inbound Doc Exchange Signing Info Settings</b>	
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.
PGP Signing Verification Public Key	The host uses this PGP public key to authenticate a partner by verifying the digital signature of the partner.
<b>Encryption Info Settings</b>	
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.
PGP Decryption Private Key	The host uses this PGP private key to decrypt the document.

## Transports Tab

---

Use this tab to configure the allowed outbound and inbound transport for the host and the partner participant in the business agreement.

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 [Transports Tab, page 56](#)..

Table 23 *Outbound Transport for the Host*

Field	Description
Primary Transport	See the Transports chapters in the <i>TIBCO BusinessConnect Trading Partner Administration</i> .
Backup Transport	<p>TIBCO BusinessConnect B2BPlugin for CMI supports a backup outbound transport for sending DAT 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.</p> <p>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.</p>

Table 23 Outbound Transport for the Host

Field	Description
AS2 Async MDN Reply Transport	<p>Same as for TIBCO BusinessConnect.</p> <p>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:</p> <ul style="list-style-type: none"> <li>• Retry Count – default is 3</li> <li>• Retry Interval – default is 60 seconds</li> <li>• Socket Timeout – default is 300 seconds (5 minutes)</li> </ul> <p>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.</p>
AS2 Async MDN Remote Server Certificate	<p>Same as for TIBCO BusinessConnect.</p> <p>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.</p> <p><b>Note</b> The server certificate configuration is only required for Async MDNs via AS2 HTTPS transport.</p>
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 24 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 <i>TIBCO BusinessConnect Trading Partner Administration</i> , 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 <i>TIBCO BusinessConnect Trading Partner Administration Guide</i> 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 <i>TIBCO BusinessConnect Trading Partner Administration</i> , Chapter 15, SSHFTP Transport.



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