

TIBCO BusinessConnect™ B2BPlugin for CMI

B2B-EDIFACT Configuration

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Contents

Contents	iii
Tables	vii
Preface	ix
Related Documentation	x
Documentation	x
Other TIBCO Product Documentation	x
Typographical Conventions	xi
Connecting with TIBCO Resources	xiii
How to Join TIBCOCommunity	xiii
How to Access All TIBCO Documentation	xiii
How to Contact TIBCO Support	xiii
Chapter 1 B2B-EDIFACT Overview	1
Product Overview	2
Document Structure	3
Interchange	3
Functional Group	4
Message	5
UNA Segment	6
Chapter 2 Tutorial — Getting Started	7
Overview	8
Prerequisites	9
Configuring the Initiator	10
Set Up a Host	10
Set Up a Partner	12
Configure the Business Agreement	14
Deploy the Initiator Server	14
Configuring Private Processes	15
Configure Connections to TIBCO BusinessConnect	16
Process Types	18
Running the Tutorial	19

Send Request Process	19
Receive Request Process	20
Run the Processes	20
Expected Results	21
View the Audit Log	21
Chapter 3 Managing B2B-EDIFACT Interchanges, Functional Groups, and Messages.	23
Overview	24
Adding an Interchange Version	25
Adding a Group Version to an Interchange Version	26
Adding a Message to a Group Version	27
Notification Message Tab	28
Outbound Action Tab	30
Exporting Interchange Versions, Group Versions, and Messages	31
Importing an Interchange Version	32
Chapter 4 Setting Up Trading Hosts	33
Configuring the B2B-EDIFACT Protocol	34
General Tab	35
Advanced Tab	37
Chapter 5 Setting Up Trading Partners	39
Configuring the B2B-EDIFACT Protocol	40
General Tab	41
Interchange Header Tab	43
Group Header Tab	45
Delimiters Tab	47
Transports Tab	48
Chapter 6 Configuring Agreement Protocol Bindings	49
Overview	50
Add Protocol Binding	50
Operation Bindings Tab	51
Add Operation Binding	51
Overriding Outbound Settings	52
Operation Settings Tab	52
Transports Tab	53
Document Security Tab	54

Document Security Tab 55

Transports Tab 56

 Set the Outbound Transport for the Host 56

 Set the Inbound Transport 58

Index 1

Tables

Table 1	General Typographical Conventions	xi
Table 1	Default Service Characters	6
Table 2	Group Version Fields	34
Table 3	General Fields	35
Table 4	Guideline Fields	36
Table 5	Schema Fields	37
Table 6	Acknowledgement Fields	38
Table 7	Error Severity Types and Levels.	43
Table 8	Error Severity Settings Applied to Validation Errors.	49
Table 9	Host General Fields	55
Table 10	Preprocessing Fields	57
Table 11	Logging Fields	58
Table 12	Host Record Advanced Fields	59
Table 13	Partner General Fields	65
Table 14	Logging Fields	70
Table 15	Batching Fields.	71
Table 16	Interchange Header Fields	73
Table 17	Group Header Fields	75
Table 18	Acknowledgement Fields	77
Table 19	Control Numbers Fields	79
Table 20	Delimiter Fields	82
Table 21	Document Security Fields	90
Table 22	Inbound Transport Fields	93
Table 23	Scheduled Transmission Fields	94

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, page x](#)
- [Typographical Conventions, page xi](#)
- [Connecting with TIBCO Resources, page xiii](#)

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
<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>code font</code>	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none"> • 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
<i>italic font</i>	<p>Italic font is used in the following ways:</p> <ul style="list-style-type: none">• To indicate a document title. For example: See <i>TIBCO BusinessConnect™ B2BPlugin for CMI Installation and Configuration</i>.• To introduce new terms. For example: A portal page may contain several portlets. <i>Portlets</i> are mini-applications that run in a portal.• To indicate a variable in a command or code syntax that you must replace. For example: <i>MyCommand PathName</i>
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>
	<p>The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.</p>
	<p>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.</p>
	<p>The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.</p>

Connecting with TIBCO Resources

How to Join TIBCOCommunity

TIBCOCommunity is an online destination for TIBCO customers, partners, and resident experts; a place to share and access the collective experience of the TIBCO community. TIBCOCommunity 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 TIBCOCommunity, 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-EDIFACT Overview

This chapter briefly describes the EDIFACT standard and its use for electronic data interchange (EDI). For a more complete description of the EDIFACT standard, please refer to the standard itself which can be found at the following website:

<http://www.unece.org/trade/untdid/welcome.htm>

Topics

- [Product Overview, page 2](#)
- [Document Structure, page 3](#)
- [UNA Segment, page 6](#)

Product Overview

EDI (Electronic Data Interchange) 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.

EDIFACT is the United Nations rules for Electronic Data Interchange For Administration, Commerce, and Transport. EDIFACT is the international messaging standard for EDI. Organizations that choose to trade globally use the UN/EDIFACT (EDIFACT) standard. In contrast, ANSI X12 is an EDI standard developed and used mainly in the United States.

The EDIFACT standards cover messages, data element directories, and syntax rules.:

- **Message** A message contains the data for a well defined business function. There are approximately 200 messages in the EDIFACT standard. The first message, an invoice (INVOIC), was defined for EDIFACT in 1987.
- **Data element directories** They contain information about the data elements and various data structures used in the exchange of messages. The United Nations Trade Data Elements Directory (UNTDDED) is the basis for any trade data interchange.
- **Syntax rules** The EDIFACT syntax rules define how data is structured into segments, segments into messages, and messages into an interchange. The EDIFACT syntax rules are found in ISO9735.

Document Structure

When working with EDIFACT, it is important to understand that there are three basic structures in an EDIFACT document. They are:

- [Interchange](#)
- [Functional Group](#)
- [Message](#)

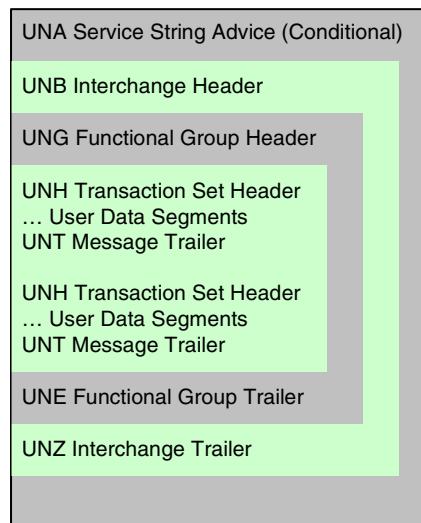
The following sections provide a basic description of each of these structures. For more detailed information on each of these structures, please refer to the EDIFACT standard.

Interchange

The interchange is the basic unit of electronic data transfer. It contains at least one functional group or one message and is started by either a service string advice (UNA segment) or by an interchange header (UNB segment). The interchange is identified by the interchange header and terminated by an interchange trailer (UNZ segment).

[Figure 1](#) depicts the structure of an interchange structure.

Figure 1 Interchange Structure



Segments starting with **UN** are called service segments. They constitute the envelope which groups the EDIFACT messages.

Several interchanges can be bundled into a single file for data transfer.

The following example of an EDIFACT interchange contains a BANSTA (Banking Status) message:

```

UNA:+. ? '
UNB+UNOB:1+Interchange sender identification:1:Interchange
s+Interchange recipient identificatio:1:Interchange
r+009266:4372+Interchange co+Recipient refe:AA+Application
re+A+1+Interchange agreement identifier+1'
UNG+BANSTA+Application sender identification:1+Application
recipient identificatio:1+027900:6798+Group
referenc+AA+D:98A:Associ+Application pa'
UNH+Message refere+BANSTA:D:98A:AA:Associ+Common access
reference+7:C'
BGM+1:12:1:Document/message name+Document/message
number:Version:Revisi+1+AA'
DTM+2:Date/time/period:2'
...
UNT+33+Message refere'
UNE+1+Group referenc'
UNZ+1+Interchange co'

```



Normally all of the data in an EDIFACT 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 EDIFACT 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 messages. You can group messages of different types in one functional group.

A functional group begins with a functional group header (UNG segment), which contains internal routing identifiers, and ends with a functional group trailer (UNE segment).

In EDIFACT, an interchange can contain zero or more functional groups. An interchange without any groups is called an empty group. An empty group is useful if internal routing is not necessary.

Message

A message contains the data for a well defined business function. For example, there are EDIFACT messages for purchase orders, invoices, and financial statements. An EDIFACT message is the equivalent of an ANSI X12 transaction.

The entire EDIFACT message structure is bounded by a UNH header segment and a UNT trailer segment. The user data segments of a message are organized into the following three sections:

- **Header section** Contains information that applies to the whole message.
- **Detail section** Contains information that may be repeated and provides the details for the business function of the message.
- **Summary section** Contains summary information for the message such as an invoice total amount.

UNA Segment

The UNA segment defines the service characters used in the transmission. Service characters act as delimiters for the various syntax structures of a message.

You can use only one character as a delimiter for TIBCO BusinessConnect B2BPlugin for CMI, EDIFACT protocol.

The following are the service characters:

- Component data element separator
- Data element separator
- Decimal separator
- Release character
- Repetition separator
- Segment terminator

The UNA segment must be used if the default service characters, specified in [Table 1](#), are not used.

Table 1 Default Service Characters

Name	Character	Functionality
Colon	:	Component data element separator
Plus sign	+	Data element separator
Period	.	Decimal notation
Question mark	?	Release character/Indicator
Asterix	*	Repetition separator, used only for Syntax 4 EDIFACT data
Apostrophe	'	Segment terminator

If the default service characters are used, use of the UNA segment is optional. When it is used, the UNA segment appears immediately before the interchange header segment.

Chapter 2

Tutorial — Getting Started

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

In this tutorial you will configure trading partner information, configure a private process to communicate with TIBCO BusinessConnect B2BPlugin for CMI, and run the tutorial.

Topics

- [Overview, page 8](#)
- [Prerequisites, page 9](#)
- [Configuring the Initiator, page 10](#)
- [Configuring the Initiator, page 10](#)
- [Configuring Private Processes, page 15](#)
- [Running the Tutorial, page 19](#)

Overview

In this tutorial you will use TIBCO ActiveMatrix BusinessWorks and TIBCO BusinessConnect B2BPlugin for CMI running on one machine to send an ORDERS message 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 (Initiator) and when the ORDERS message is sent to the trading partner, the transport properties are defined to store the request in a directory on the local file system.

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

1. TIBCO Designer will read an EDI file which contains the data for the ORDERS message.
2. TIBCO Designer will send the EDI data to TIBCO BusinessConnect B2BPlugin for CMI.
3. TIBCO BusinessConnect B2BPlugin for CMI will send it to the trading partner.
4. The FILE transport will be used to simulate sending the interchange to the trading partner. By using the FILE transport, the B2B-EDIFACT interchange will be written to a file on the local file system when it is sent to the trading partner.

The following sections describe how to set up and run the tutorial:

- [Prerequisites, page 9](#)
- [Configuring the Initiator, page 10](#)
- [Configuring Private Processes, page 15](#)
- [Running the Tutorial, page 19](#)

Prerequisites

Before starting the tutorial:

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 not familiar with the UN/EDIFACT standard, read [Chapter 1, B2B-EDIFACT 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.

As explained before, the trading partner is normally represented by another B2B engine running on another machine. However, this tutorial is run on a single (Initiator) machine.

To proceed with the tutorial, do the following:

- [Set Up a Host, page 10](#)
- [Set Up a Partner, page 12](#)
- [Configure the Business Agreement, page 14](#)
- [Deploy the Initiator Server, page 14](#)

Set Up a Host

On the Initiator machine, you will first set up a trading host. If this is the first time you are configuring a host on this machine after installing B2BPlugin protocols, follow these steps:

1. [Start Creating a New Host, page 10](#)
2. [Set the Interchange Qualifier and ID for the Host, page 11](#)
3. [Activate the Host, page 11](#)

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 Participant Name field.
4. Select **Host** in the Participant Type drop-down list.
5. Click **OK**.
6. Click **Save**.

Enable the B2B-EDIFACT 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. Check all B2BPlugin protocols except for B2B-EDIFACT.
 - b. Click **Disable**
 or, if protocols have not been enabled:
 - a. Click **Enable**
 - b. Check the checkbox next to B2B-EDIFACT and click **OK**.

Set the Interchange Qualifier and ID for the Host

1. Click the **B2B-EDIFACT** 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 **1**.
In the ID field, type **123456789**
5. Click **Save** and **OK**.
6. In the Default Interchange Qualifier ID drop-down list, select **1-123456789**.
7. Click **Save**.

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**.

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](#): (1)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 binded 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 12](#)
- [Enable the B2B-EDIFACT Protocol for the Partner, page 12](#)
- [Set the Interchange Qualifier and ID for the Partner, page 13](#)
- [Set the Transport, page 13](#)

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. Check the **Active** checkbox.
7. Click **Save**.

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

Enable the B2B-EDIFACT Protocol for the Partner

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

Set the Interchange Qualifier and ID for the Partner

1. Click the **B2B-EDIFACT** 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 **1**.
5. In the ID field, type **987654321**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **1-987654321**.
9. Click **Save**.

Set the Transport

To set the transport:

1. Click the **B2B-EDIFACT** 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:/testBCB2B/out**.



Forward slashes are used in the path as opposed to the Windows backslash. This is because the fields of the Configuration GUI 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-EDIFACT** checkbox.
7. Click **OK**.
8. Click the **B2B-EDIFACT** link.
9. Click the **Transports** tab.
10. Make sure **FILE** is selected 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-EDIFACT 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

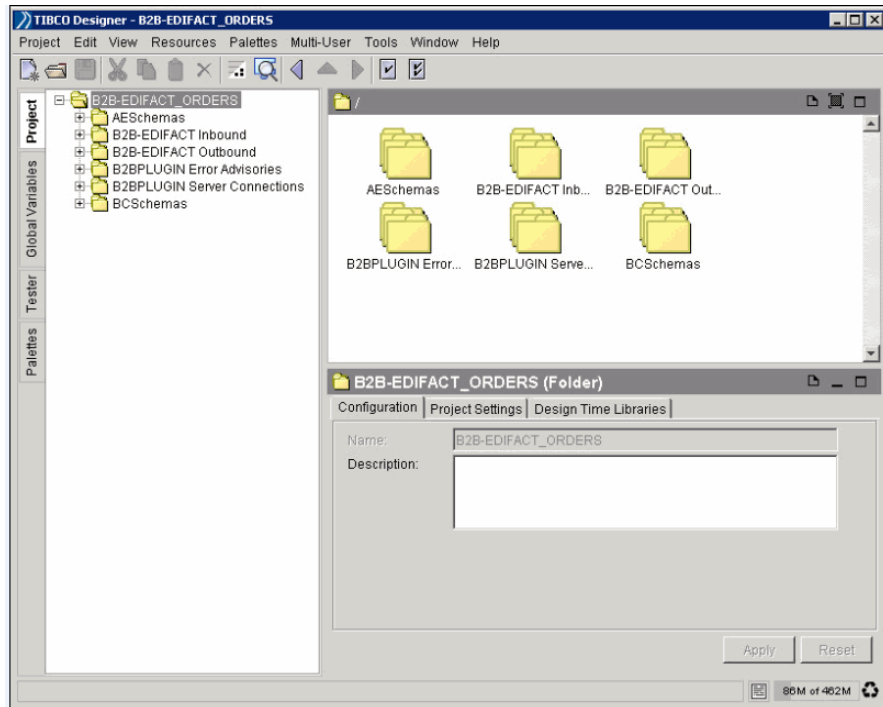
TIBCO BusinessConnect B2BPlugin for CMI contains an example TIBCO ActiveMatrix BusinessWorks project which sends a UN/B2B-EDIFACT ORDERS message to TIBCO BusinessConnect.

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

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-EDIFACT_ORDERS`
6. Select **B2B-EDIFACT_ORDERS.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-EDIFACT_ORDERS`.
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 B2B-EDIFACT 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 TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect:

1. Click the **Project** tab.
2. Expand the **B2BPLUGIN Server Connections** folder and 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-EDIFACT** from the Protocol Name drop-down list.
 7. Click the **Import Selected Business Protocol** button.

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

Figure 3 BusinessConnect Server Access

The screenshot shows the 'BCServerConfig (BusinessConnect Connection)' dialog box with the 'BusinessConnect Server Access' tab active. The 'Rendezvous' sub-tab is also visible. The configuration fields are as follows:

- Name:** BCServerConfig
- Description:** e on how to change private process transports.
- Server:** BC-DTz600
- PP Transport:** Tibrv
- Update Transport Settings:** ☒
- Protocol Name:** B2B-EDIFACT (selected from a dropdown)
- Select Operations:** ☐
- Imported Operations:** EDI/Inbound/Interchange, EDI/Outbound/Interchange
- Use Smart ID:** ☐

At the bottom, there are three buttons: 'Update from Configuration Store', 'Import Selected Business Protocol', and 'Apply'.

8. Click **Apply**.
9. Save the project.

Process Types

The EDIFACT-ORDERS project contains several processes in two folders:

- **B2B-EDIFACT Outbound** This folder contains the following process:
 - **Send Request Process** This process reads a file containing the EDI equivalent of the ORDERS message and sends the EDI data to TIBCO BusinessConnect.



If you want to use the same example EDI data file to receive it from TIBCO BusinessConnect B2BPlugin for CMI, you must alter both the Sender and Receiver Interchange qualifier /ID in the data file to match the configuration.

That way the EDI data will be received by the Receive Request process in BusinessWorks.

- **B2BPLUGIN Error Advisories** This folder contains processes which would be activated if TIBCO BusinessConnect were to send out any advisory messages during the processing of the ORDERS message. The B2BPLUGIN Error Advisories folder contains the following processes:
 - **Error Advisory** This process is activated when TIBCO BusinessConnect sends out a general error advisory. There are several conditions which could cause this advisory to be sent out. For example, it would be sent when an invalid message was sent from TIBCO ActiveMatrix BusinessWorks to TIBCO 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*, Chapter 6, Private Messages.

Running the Tutorial

To run the tutorial, follow these steps:

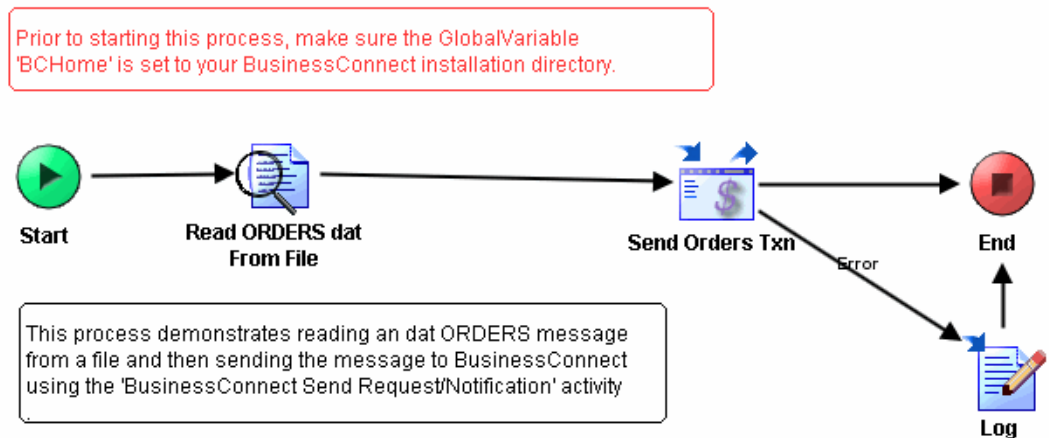
1. Send the transaction from TIBCO Designer.
See [Send Request Process, page 19](#).
2. Check the results of sending the message.
See [Expected Results, page 21](#) and [View the Audit Log, page 21](#).

Send Request Process

In the Project window, select **B2B-EDIFACT_ORDERS > B2B-EDIFACT Outbound > Send Request Process**.

The Send Request Process is shown on [Figure 4](#).

Figure 4 Sending the Request



The Send Request process does the following:

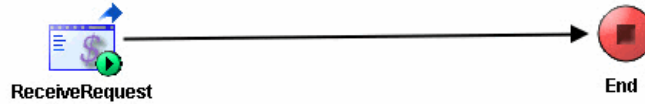
1. Reads a .dat ORDERS message from a file .
2. Sends the message to BusinessConnect using the BusinessConnect Send Request/Notification activity.

Receive Request Process

In the Project window, select **B2B-EDIFACT_ORDERS > B2B-EDIFACT Inbound > Receive Request Process**.

The Receive Request Process is shown on [Figure 5](#).

Figure 5 Receive Request Process



This process receives a EDIFACT document from BusinessConnect.

The Receive Request process receives an EDIFACT document from BusinessConnect.

Run the Processes

To run the processes:


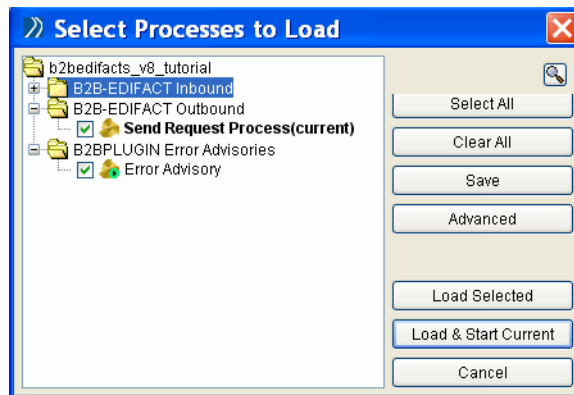
1. Select the Tester tab.
2. Select the Start Testing Viewed Process button .

Figure 6 Select Processes to Load



3. Check the checkbox next to **Send Request Process** in the B2B-EDIFACT Outbound folder and the checkbox next to the process in the B2BPlugin Error Advisory folder.

4. Click **Load Selected**.
5. Check the checkbox next to **Receive Request Process** in the B2B-EDIFACT Inbound folder and the checkbox next to the process in the B2BPlugin Error Advisory folder.
6. Click **Load Selected**.

Expected Results



- The Send Request activity contains output that indicates the Request message was successfully sent to the trading partner.
- The directory `c:/testBCB2B/out` should contain a file which contains the B2B-EDIFACT Request message that was sent to the trading partner by TIBCO BusinessConnect B2BPlugin for CMI.
- The directory `c:/testBCB2B/int` should contain a file which contains the B2B-EDIFACT Request message that was received from the trading partner by TIBCO BusinessConnect B2BPlugin for CMI.
- The audit log should contain entries 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 machines, do the following:

1. Using TIBCO Administrator, select **BusinessConnect > Log Viewer**.
2. Click the **B2B-EDIFACT** link in the right panel.
The default search settings are: status ANY and date range One Day
3. Click **Search**.

Figure 7 B2B-EDIFACT Audit Log

THURSDAY							
	Nov-29-2012 05:28:46 PM	EDI/Inbound/Interchange	5FK94R-ZLM8SE-0005W4-7K9NBA-023E	Company1	1	123456789	false
	Nov-29-2012 05:27:07 PM	EDI/Outbound/Interchange	7xn1CGdZHimNsEL9fED1g6xUEQU	Company2	1	987654321	true
	Nov-29-2012 05:18:46 PM	EDI/Inbound/Interchange	5FK94R-ZLM8SE-0005UX-H95MEB-023C	Company1	1	123456789	false
	Nov-29-2012 05:13:46 PM	EDI/Inbound/Interchange	5FK94R-ZLM8SE-0005X5-37NWMT-023B	Company1	1	123456789	false
	Nov-29-2012 05:03:46 PM	EDI/Outbound/Interchange	oE6bGHorHhQsHkL9fDD1g6xUEQU	Company2	1	987654321	true
	Nov-29-2012 04:59:37 PM	EDI/Outbound/Interchange	DP0JVC_2fHhBgBUL9fCD1g6xUEQU	Company2	NA	NA	true




4. Click the **Details** icon  for a specific operation to view the details.

Figure 8 Transaction Details for the B2B-EDIFACT Audit Log

States					
	Time Stamp +	Status	State	Description	Transmission ID
	Nov-29-2012 04:59:37 PM	PENDING	RECEIVED_FROM_PP	Received message from Private Process. This message can be resent.	
	Nov-29-2012 04:59:37 PM	ERROR PARSING	INVALID_EDI_FROM_PP	EDI Document has parsing errors. Please correct the file for the Errors and resubmit it again. Reason: Receiver ID/Qualifier specified in the EDI Document is not in the configuration. Either data file needs to be modified or Trading Partner Configuration should have this Receiver ID/Qualifier: "987654321/1"	

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

Transaction Details

Done

Filters > Status : ANY > Nov-03-2012 12:36 ~ Dec-03-2012 12:36

Summary : 11 of 11

Operation ID

Document ID

Trading Partner

Interchange Qlfr

Interchange ID

Initiated by Host

EDI/Outbound/Interchange

DPOJVC_2fHh8gBUL9CD1g6xUEQU

Company2

NA

NA

true

Back

Next

State : 1 of 2

change view

Time Stamp

Status

State

Description

Nov-29-2012 04:59:37 PM

PENDING

RECEIVED_FROM_PP

Received message from Private Process. This message can be resent.

Resend

Save Message [8776 bytes]

Back

Next

Chapter 3

Managing B2B-EDIFACT Interchanges, Functional Groups, and Messages

This chapter describes how to manage B2B-EDIFACT interchanges, functional groups, and messages.

Topics

- [Overview, page 24](#)
- [Adding an Interchange Version, page 25](#)
- [Adding a Group Version to an Interchange Version, page 26](#)
- [Adding a Message to a Group Version, page 27](#)
- [Exporting Interchange Versions, Group Versions, and Messages, page 31](#)
- [Importing an Interchange Version, page 32](#)

Overview

There are three basic structures in a UN/EDIFACT document:

- Interchange
- Functional group
- Message

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

You have to configure the guidelines for each of these structures.

Once you have configured messages, they can be seen during the configuration of your trading partners. The messages can be allowed or disallowed, or the guideline itself can be overridden for a particular trading partner, if necessary.

See [Operation Bindings Tab, page 51](#) for more information.

Adding an Interchange Version

The first step in configuring a B2B-EDIFACT message is to configure the interchange version and its associated guideline.

To add an interchange version:

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

Adding a Group Version to an Interchange Version

After you configure the interchange version, you configure the group version, even if a functional group is not used. To add a group version, do the following:

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



In some cases, you may need to handle inbound B2B-EDIFACT messages of the same message type that do not use a function group. These messages may belong to different version numbers or message release numbers or both, but not be contained within a function group. For information on handling such messages, refer to [Adding a Message to a Group Version, page 27](#).

Table 2 Group Version Fields

Field	Description
Name	A name for the group. Example: D98A. The name must correspond to the message version number and message release number which would be designated in the functional group header (UNG) segment. For example: Version number: D. Release number: 98A. If you are not using a functional group, enter <code>EmptyGroup</code> and then proceed to Adding a Message to a Group Version on page 27 .
Description	Description for the new group
UNG-0051 Controlling Agency Code	Example: UN
UNG-S008/0052 Version Number	Example: D
UNG-S008/0054 Release Number	Example: 98A
UNG-S006/0040 Application Sender ID	Within the sender's organization: name or code identifying the originating division, department, and so on.
UNG-S007/0044 Application Recipient ID	Within the recipient's organization for which the group of messages is intended: name or code identifying the division, department, and so on.

Adding a Message to a Group Version

Once you have configured your interchange and group versions, you can configure the B2B-EDIFACT message:

1. Click a group version radio button.
2. Click **New Message**.
3. The Operation Type drop-down list appears with **Notification** selected.

The Operation Type selection cannot be modified because only notification transactions are supported by the B2B-EDIFACT protocol; synchronous request-response transactions are not supported.

4. Click **OK**.

Figure 9 Edit Notification Message

The screenshot shows a dialog box titled "New Notification Message for Group Version 1/D98A". It features a "Notification Message" tab and an "Outbound Action" tab. The "Notification Message" tab is active, showing a "General" sub-tab. Within the "General" sub-tab, there are two text input fields: "Name" (containing "Unnamed") and "Description" (empty). "Save" and "Cancel" buttons are located at the top right of the dialog.

Notification Message Tab

To configure the Notification message, enter information into the following tabs:

- [General Tab, page 28](#)
- [Guideline Tab, page 28](#)
- [Schema Tab, page 29](#)

General Tab

Table 3 Notification Transaction: General tab

Field	Description
Name	A name for the message
Description	Description for the message

Guideline Tab

Table 4 Notification Transaction: Guideline Tab

Field	Description
UNG-0038 Group ID	The mandatory ID of the message.
Validation Guideline	
Guideline file for validating EDIFACT Partner data (.sef or .std)	The guideline file associated with this message type. Click change 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> .
Validator Profile File (.apf)	Click change to select the Validator profile file.

Schema Tab

Table 5 Notification Transaction: Schema Tab

Field	Description
Transaction Schema (.xsd)	Click change to select the schema file associated with this message type. Loading the message schema 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.
Request Root Element Name	Enter the name of the root element; for example, T-ORDERS for the Orders Message.
EDI to XML Translation Map file (.map)	Click change to select the EDI to XML translation map file associated with this message type. Note that EDI to XML translation map files have an extension <code>_EX.map</code> .
XML to EDI Translation Map file (.map)	Click change 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 tab:

Table 6 Outbound Action: General Tab

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

Exporting Interchange Versions, Group Versions, and Messages

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

1. Click the **BusinessConnect > Operations Editor** in the left panel.
2. Select the **B2B-EDIFACT** link.
3. In the Edit Operations : B2B-EDIFACT dialog, click on the topmost Plus (+) sign to show all existing transactions associated with the B2B-EDIFACT protocol.
4. Click the radio button next to the interchange, group, or message you wish to export.
5. Click **ExportXXX**, where XXX is empty, **Interchange**, **Group**, or **Message**, 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** 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 setting up trading hosts in TIBCO BusinessConnect B2BPlugin for CMI when using B2B-EDIFACT.

Topics

- [Configuring the B2B-EDIFACT Protocol, page 34](#)
- [General Tab, page 35](#)
- [Advanced Tab, page 37](#)

Configuring the B2B-EDIFACT Protocol

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

General Tab

Use the General tab to set the Host general properties for B2B-EDIFACT.

Table 7 Host General Fields

Field	Description
Default Interchange Qualifier ID	<p>The interchange qualifier and ID to use for this trading host.</p> <p>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.</p> <p>Adding a Default Interchange Qualifier and ID</p> <p>To add a default interchange qualifier ID:</p> <ol style="list-style-type: none">1. Click the Add New link.2. Click the Add New button.3. 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.4. 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 D-U-N-S number used in the tutorial. For outbound documents, the interchange ID is not validated for the sender of a document.5. Click Save and then OK.
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>Add New To use a new AS2 identifier:</p> <ol style="list-style-type: none">1. Click on the Add New link and then on the Add New button.2. Enter a name of the AS2 identity.3. Click the new AS2 identifier in the dropdown list.

Table 7 Host General Fields (Cont'd)

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">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.
Outbound	
Sender Internal Identification	
UNB-S002/0008 Internal ID/Routing Address	For B2B-EDIFACT Syntax 3 & 4, this field is optional and is the address specified by the sender of an interchange to be included by the recipient in response interchanges to facilitate internal routing.
UNB-S002/0042 Internal Sub ID (Syntax 4)	For B2B-EDIFACT Syntax 4 only, this field is optional and is the sender internal sub-identification, when further sub-level identification is required.

- Click the **Advanced** tab.

Advanced Tab

Use the Advanced tab to specify advanced settings for the handling of inbound documents.



Many of these properties impact memory usage, thereby impacting performance. Read the description for each field for information about memory tuning.

Table 8 Host Record Advanced Fields

Field	Description
Inbound	
Threshold to Publish Request as File Reference (bytes)	Specify a file size in bytes. TIBCO 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 checked, the date folder is added to the document path. If unchecked, the date folder is omitted and the document is stored under the <i>tpName</i> directory.
Store Location	Identify the directory in which BusinessConnect should store the files, such as C:/testB2BPlugin. This field is required.

- 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-EDIFACT.

Topics

- [Configuring the B2B-EDIFACT Protocol, page 40](#)
- [General Tab, page 41](#)
- [Interchange Header Tab, page 43](#)
- [Group Header Tab, page 45](#)
- [Delimiters Tab, page 47](#)
- [Transports Tab, page 48](#)

Configuring the B2B-EDIFACT Protocol

Before you can enable the B2B-EDIFACT protocol, the trading partner has to be configured. To do that, see [Set Up a Partner, page 12](#).

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

General Tab

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

Table 9 Partner General Fields (Sheet 1 of 2)

Field	Description
Default Interchange Qualifier ID	<p>The interchange qualifier and ID to use for this trading partner.</p> <p>For inbound documents, the interchange sender qualifier and ID will be matched against the values of this field to ensure that the inbound document came from this trading partner.</p> <p>To add a default interchange qualifier ID:</p> <ol style="list-style-type: none"> 1. Click the Add New link. 2. In the Interchange Qualifier ID List dialog, click the Add New button. 3. Select a qualifier from the Interchange Qualifier drop-down list. Enter the mandatory ID name. This is mapped to the Interchange Qualifier used by the host. For example, specify 1 for a D-U-N-S number. For outbound documents, the interchange qualifier is not validated for the sender of a document. 4. 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 D-U-N-S number used in the tutorial. For outbound documents, the interchange ID is not validated for the sender of a document. 5. Click Save and OK. 6. Select the new Interchange Qualifier ID in the dropdown list.
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>Add New To use a new AS2 identifier:</p> <ol style="list-style-type: none"> 1. Click on the Add New link and then on the Add New button. 2. Enter a name of the AS2 identity. 3. Click the new AS2 identifier in the dropdown list.

Table 9 Partner General Fields (Sheet 2 of 2)

Field	Description
Valid Email Address List	The email address that is used to match against the 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.

- 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 (UNB segment) for documents sent to this trading partner.

Table 10 Interchange Header Fields

Field	Description
Syntax Identification	
UNB-S001/0001 Identifier*	<p>This is the required UN/B2B-EDIFACT syntax identifier. It is made up of a code for the agency controlling the syntax, plus a code specifying the syntax level.</p> <p>For example, UNOB specifies that the UN/ECE is the controlling agency (UNO = UN/ECE) and that the syntax level is B.</p>
UNB-S001/0080 Service Code List (Syntax 4)	The service code list directory version number. The service code directory forms part of the UN Trade Data Interchange Directory (UNTDID).
UNB-S001/0133 Character Encoding (Syntax 4)	This option is only for Syntax 4 version and is used to send the Character Encoding of the B2B-EDIFACT document.
Recipient Internal Identification	
UNB-S003/0014 Internal ID/Routing Address	Identification specified by this trading partner has to be included in the interchange header in response to interchanges received from this trading partner. This field is used to facilitate internal routing of responses returned to this trading partner.
UNB-S003/0046 Internal Sub ID (Syntax 4)	Sub-level of this trading partner's internal identification.

Table 10 Interchange Header Fields (Cont'd)

Field	Description
Date and Time Formats	
UNB-S004/0017 Date Format *	<p>Required. The date any outbound interchanges were prepared.</p> <ul style="list-style-type: none"> The macro YYMMDD can be used for B2B-EDIFACT Syntax 3 interchanges. The macro CCYYMMDD can be used for B2B-EDIFACT Syntax 4 interchanges. <p>These macros insert the system date (in the designated format) into this field when an interchange is being prepared.</p>
UNB-S004/0019 Time Format *	<p>Required. The time any outbound interchanges were processed.</p> <p>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.</p>
Recipient Reference/Password	
UNB-S005/0022 Reference/Password	A reference or password to the trading partner's system or to a third party network. This field is used by the trading partner agreement.
UNB-S005/0025 Qualifier	Identifies the contents of UNB-S005/0022 as either a reference or a password.
Others	
UNB-0026 Application Reference	Identifies the application area (for example, accounting, purchasing) or the message type, as applicable.
UNB-0029 Processing Priority Code	A code determined by the sender requesting processing priority for the interchange. This field is used by business agreements.
UNB-0031 Ack Requested	A code for acknowledgement of the interchange.
UNB-0032 Agreement Identifier	Identifies by name or code the type of agreement under which the interchange takes place.
UNB-0035 Test Indicator	Indicates the interchange is for testing and the structural level of the test.

- 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 (UNG segment) for messages sent to the trading partner.

Table 11 Group Header Fields

Field	Description
Outbound Application Code	
UNG-S006/0007 Sender Qualifier	Accept or change the default of 1.
UNG-S006/0040 Sender ID	Accept or change the default of Application Sender Identification. This is part of the binding modifiers feature. See Set the Inbound Transport .
UNG-S007/0007 Recipient Qualifier	Accept or change the default of 1.
UNG-S007/0044 Receiver ID	Accept or change the default of Application Recipient Identification. This is part of the binding modifiers feature. See Set the Inbound Transport .
Date and Time Formats	
UNG-S004/0017 Date Format *	<p>This option is required.</p> <p>It represents the date any outbound groups were prepared.</p> <ul style="list-style-type: none"> The macro CCYYMMDD can be specified to have the current system date inserted (in the designated format) into the UNG-S004/0017 field when a group is being prepared. The macro YYMMDD can be specified to have the current system date inserted (in the designated format) into the UNG-S004/0017 field when a group is being prepared. It is used for earlier B2B-EDIFACT versions where the GS04 field was designated as a 6 character field.
UNG-S004/0019 Time Format *	<p>This option is required.</p> <p>It represents the time any outbound groups were prepared. Time should be specified in 24-hour clock time.</p> <p>The macro HHMM can be specified to have the current system time inserted (in the designated format) into the UNG-S004/0019 field when a group is being prepared.</p>

Table 11 Group Header Fields (Cont'd)

Field	Description
Others	
UNG-S008/0057 Association Assigned Code	A code which further identifies the message. The code is assigned by the association responsible for the design and maintenance of the message type concerned.
UNG-0058 Application Password	A password to the trading partner's division, department, or sectional application system/process.

- Click on the **Delimiters** tab.

Delimiters Tab

Use the Delimiters tab to specify the service characters that will be used .



Only one character per delimiter can be used for the B2B-EDIFACT Protocol. Each delimiter value must be unique.

The delimiters consist of two levels of separators and a terminator. The delimiters are an integral part of the transferred data stream. Delimiters are specified in the interchange header and may not be used in a data element value elsewhere in the interchange. From highest to lowest level, the separators and terminator are data element separator and sub-element separator, and segment terminator.

Table 12 Delimiter Fields

Field	Character	Description
Outbound		
UNA-010 Component Data Element Separator *	: (colon)	Required. A single character that separates the component elements of a composite data element.
UNA-020 Data Element Separator *	+ (plus sign)	Required. A unique character preceding each data element that is used to delimit data elements within segments.
UNA-030 Decimal Separator *	. (period)	Required. A unique character to indicate the decimal point for a decimal number.
UNA-040 Release Character *	? (question mark)	Required. A single character, which overrides the meaning of the next character, allowing a separator character to appear within a data element.
UNA-050 Repetition Separator (Syntax 4)*	* (asterix)	Required. A single character that separates the instances of a repeating data element.
UNA-060 Segment Terminator *	' (apostrophe)	Required. A unique character appearing at the end of a segment to indicate the termination of the segment.

- 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
- 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*.

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 configure protocol bindings for business agreements.

Topics

- [Overview, page 50](#)
- [Operation Bindings Tab, page 51](#)
- [Overriding Outbound Settings, page 52](#)
- [Document Security Tab, page 55](#)
- [Transports Tab, page 56](#)
- [, page 58](#)

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-EDIFACT** checkbox.
5. Click **OK**.
6. Click the **B2B-EDIFACT** agreement protocol binding link. To configure business agreement, use the following tabs:
 - [Operation Bindings Tab, page 51](#)
 - [Document Security Tab, page 55](#)
 - [Transports Tab, page 56](#)

Operation Bindings Tab

Use the Operation Bindings tab to configure the B2B-EDIFACT messages that each participant in a business agreement can initiate and respond to. The following properties apply to all the messages 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 messages 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 messages that the partner can initiate and the host can respond to.

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

1. Click **Add Operation Binding**.
2. Click the topmost + to expand the message tree.
3. Check the checkbox next to an operation.
4. Click **OK**. The checked message is added to the Operation Name list. You can continue by editing this operation binding.

Overriding Outbound Settings

To override B2B-EDIFACT operation binding, select a Notify operation. The following options are available:

- **Operation Settings** Override the default settings for this operation. See [Operation Settings Tab, page 52](#).
- **Transports** To override the transports for a message, check the **Override Transports** checkbox. Options entered here override the settings chosen in [Set the Inbound Transport on page 58](#).
- **Document Security** To override the document security for a outbound message, check the **Override Document Security** checkbox. Options entered here override the settings chosen in [Set the Inbound Transport, page 58](#).

Operation Settings Tab

This configuration tab is available both for the Host and for the Partner.

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, page 53](#)
- [Schema Option, page 53](#)

Guideline Option

If Guideline is selected, you can change or remove Validation Guidelines and TEXT Translation Guidelines as explained in [Table 13](#).

Table 13 Override Settings for a Transaction: Guideline

Field	Description
Validation Guideline	
Guideline File for validating EDIFACT Partner data (.sef or .std)	<p>The guideline file associated with this message type.</p> <p>Click change 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>.</p>
Validator Profile File (.apf)	<p>Click change 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.</p>

Schema Option

If Schema is selected, change or remove the Map file as explained in [Table 14](#).

Table 14 Override Settings for a Transaction: Schema

Field	Description
EDI to XML Translation Map file (.map)	Click change to select the EDI to XML 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:

- **Override Transports** If selected, this option overrides the transports as explained in [Transports Tab, page 48](#).
- **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:

- **Override Document Security** If selected, this option overrides the transports as explained in [Set the Inbound Transport, page 58](#).
- **Outbound Doc Exchange** See [Set the Inbound Transport, page 58](#)

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 15](#) can be set for inbound and outbound document exchange.



All PGP fields are used only for the B2B-X12 protocol and not for B2B-EDIFACT.

Table 15 Document Security Fields

Field	Description
Outbound Doc Exchange Signing Info Settings	
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. Selection are: SHA1, SHA256, SHA384, SHA512, and MD5
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. Selections are: DES3, RC2-40, RC2-128, AES-128, AES-192, AES-256.
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

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

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

Table 16 Outbound Transports 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 EDI documents to the trading partner. This backup transport is used if the document 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 document is being sent: the document 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 16 Outbound Transports 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"> • Retry Count – default is 3 • Retry Interval – default is 5 seconds • Socket Timeout – default is 300 seconds (5 minutes) <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>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>Note The server certificate configuration is only required for Async MDNs via AS2 HTTPS transport.</p>
Client Authentication Identity for HTTPS, FTPS, HTTPSCA	<p>Choose between the transport that was set up as Client Authentication Identity for HTTPS, FTPS, HTTPSCA, or None.</p>
Client Authentication Identity for SSHFTP	<p>Choose between the transport that was set up as Client Authentication Identity for SSHFTP, or None.</p>

Set the Inbound Transport

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 17 Inbound Transport Fields

Field	Description
HTTP/S HTTPSCA	<p>Allow HTTP/S connections from this partner directly or from a VAN. This also applies when the inbound connection is using the AS2 transport.</p> <p>See <i>TIBCO BusinessConnect Trading Partner Administration</i>, Chapter 11, HTTP, HTTPS, and HTTPSCA Transports.</p>
FTP/S	<p>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.</p> <p>See <i>TIBCO BusinessConnect Trading Partner Administration</i>, Chapter 9, FTP and FTPS Transports.</p>
EMAIL	<p>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.</p> <p>See <i>TIBCO BusinessConnect Trading Partner Administration</i>, Chapter 8, Email Transport.</p>
FILE	<p>Allow FILE connections from this partner. FILE is normally used for file exchange within an enterprise.</p> <p>See <i>TIBCO BusinessConnect Trading Partner Administration</i>, Chapter 15, Chapter 14, File Transport.</p>
SSHFTP	<p>See <i>TIBCO BusinessConnect Trading Partner Administration</i>, Chapter 15, SSHFTP Transport.</p>

Index

A

- add operation binding [51](#)
- adding a default interchange qualifier and ID for the host [35](#)
- adding a default interchange qualifier and ID for the partner [41](#)
- adding a group version to an interchange version [26](#)
- adding a message to a group version [27](#)
- adding an interchange version [25](#)

C

- configuring connections to BusinessConnect [16](#)
- configuring private processes [15](#)
- configuring the B2B-EDIFACT Protocol for the host [34](#)
- configuring the B2B-EDIFACT protocol for the partner [40](#)
- configuring the message
 - General tab [28](#)
 - Guideline tab [28](#)
 - Schema tab [29](#)
- configuring the Notification message [28](#)
- configuring the outbound action [30](#)
- customer support [xiii](#), [xiii](#)

D

- document structure [3](#)

E

- ENV_HOME [xi](#)

F

- functional group [4](#)

I

- importing an interchange version [32](#)
- interchange [3](#)

M

- messages [5](#)

O

- overriding the settings for an operation [52](#)

P

- prerequisites for the tutorial [9](#)
- process types [18](#)

R

- running the tutorial [19](#)

S

set the inbound transport [58](#)
support, contacting [xiii](#), [xiii](#)

T

technical support [xiii](#), [xiii](#)
TIBCO_HOME [xi](#)
tutorial
 activate the host [11](#)
 configuring the business agreement [14](#)
 configuring the initiator [10](#)
 enable the B2B-EDIFACT Protocol for the
 partner [12](#)
 expected results [21](#)
 send Request Process [19](#)
 set the transport [13](#)
 set up a host [10](#)
 set up a partner [12](#)
 setting the interchange qualifier and ID for the
 host [11](#)
 setting the interchange qualifier and ID for the
 partner [13](#)
 viewing the audit log [21](#)

U

UNA segment [6](#)