



TIBCO BusinessConnect™ EDI Protocol powered by Instream®

EDIFACT Configuration

*Software Release 6.10
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Preface

TIBCO BusinessConnect™ EDI Protocol powered by Instream® is the TIBCO business-to-business (B2B) solution for transferring EDI documents between trading partners. This manual describes how to use the EDIFACT protocol.

Topics

- [Related Documentation, page xii](#)
- [Typographical Conventions, page xiv](#)
- [TIBCO Product Documentation and Support Services, page xvi](#)

Related Documentation

This section lists documentation resources you may find useful.

TIBCO BusinessConnect EDI Protocol powered by Instream Documentation

The following documents form the TIBCO BusinessConnect EDI Protocol powered by Instream documentation set:

- *TIBCO BusinessConnect EDI Protocol powered by Instream Installation* Read this manual to learn about installing and deploying TIBCO BusinessConnect EDI Protocol powered by Instream.
- *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide* Read this manual for instructions on using the product to configure all the EDI protocols.
- *TIBCO BusinessConnect EDI Protocol powered by Instream EDIFACT Configuration* Read this manual for instructions on configuring the EDIFACT protocol.
- *TIBCO BusinessConnect EDI Protocol powered by Instream Gateway Configuration* Read this manual for instructions on configuring the Gateway protocol.
- *TIBCO BusinessConnect EDI Protocol powered by Instream Service Configuration* Read this manual for instructions on configuring the Service protocol.
- *TIBCO BusinessConnect EDI Protocol powered by Instream TEXT Configuration* Read this manual for instructions on configuring the TEXT protocol.
- *TIBCO BusinessConnect EDI Protocol powered by Instream TRADACOMS Configuration* Read this manual for instructions on configuring the TRADACOMS protocol.
- *TIBCO BusinessConnect EDI Protocol powered by Instream X12 Configuration* Read this manual for instructions on configuring the X12 protocol.
- *TIBCO BusinessConnect EDI Protocol powered by Instream Release Notes* Read the release notes for a list of new and changed features. This document also contains lists of known issues and closed issues for this release.

Other TIBCO Product Documentation

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

- TIBCO ActiveMatrix BusinessWorks™
- TIBCO ActiveMatrix BusinessWorks™ Plug-in for BusinessConnect™
- TIBCO Administrator™
- TIBCO BusinessConnect™
- TIBCO BusinessConnect™ Palette
- TIBCO Business Studio™
- TIBCO Designer™




Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>ENV_HOME</i> <i>TIBCO_HOME</i>	<p>TIBCO products are installed into an installation environment. A product installed into an installation environment does not access components in other installation environments. Incompatible products and multiple instances of the same product must be installed into different installation environments.</p> <p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none">• Name Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start > All Programs menu.• Path The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>.
<i>TIBEDI_HOME</i>	<p><i>TIBCO BusinessConnect EDI Protocol powered by Instream</i> installs into a directory within a <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>TIBEDI_HOME</i>. The default value of <i>TIBEDI_HOME</i> depends on the operating system. For example, on Windows systems, the default value is C:\tibco\bc\version\protocols\tibedi.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use MyCommand to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none">• 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 EDI Protocol powered by Instream Installation</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: <code>MyCommand <i>PathName</i></code>.
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.

TIBCO Product Documentation and Support Services

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

How to Access TIBCO Documentation

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

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

Documentation for TIBCO BusinessConnect EDI Protocol powered by Instream is available on the <https://docs.tibco.com/products/tibco-businessconnect-edi-protocol-powered-by-instream> Product Documentation page.

How to Contact TIBCO Support

You can contact TIBCO Support in the following ways:

- For an overview of TIBCO Support, and information about getting started with TIBCO Support, visit <http://www.tibco.com/services/support>
- For accessing the Support Knowledge Base and getting personalized content about products you are interested in, visit the TIBCO Support portal at <https://support.tibco.com>.
- For creating a Support case, you must have a valid maintenance or support contract with TIBCO. You also need a user name and password to log in to <https://support.tibco.com>. If you do not have a user name, you can request one by clicking Register on the website.

How to Join TIBCO Community

TIBCO Community is the official channel for TIBCO customers, partners, and employee subject matter experts to share and access their collective experience. TIBCO Community offers access to Q&A forums, product wikis, and best practices. It also offers access to extensions, adapters, solution accelerators, and tools that extend and enable customers to gain full value from TIBCO products. In addition, users can submit and vote on feature requests from within the [TIBCO Ideas Portal](#). For a free registration, go to <https://community.tibco.com>.

Chapter 1 **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, see 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](#)
- [Message Acknowledgment, page 7](#)
- [Support for File Conversion, page 8](#)

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](#)

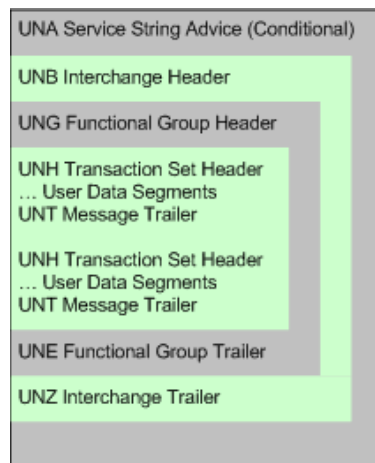
The following sections provide a basic description of each of these structures. For more detailed information on each of these structures, see the EDIFACT standard.

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 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 EDI Protocol powered by Instream, EDIFACT protocol.

The following are the service characters:

- Component data element separator
- Data element separator
- Decimal separator



XML standards do not allow a comma (,) to be used as a decimal separator. For TIBCO BusinessConnect EDI Protocol powered by Instream this applies to the XML payloads sent for inbound EDIFACT documents.

- Release character
- Repetition separator
- Segment terminator

The UNA segment must be used if the default service characters, specified in [Table 2](#), are not used.

Table 2 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 is displayed immediately before the interchange header segment.

Message Acknowledgment

When EDIFACT documents are exchanged between trading partners, an acknowledgment of the receipt and syntactical validation of the document can be returned to the sender of the document.

When exchanging EDIFACT documents, the `CONTRL` message is used to syntactically acknowledge or reject, with error indication, an interchange, group or message received from a trading partner.

Note that `CONTRL` is the only message for acknowledgment in EDIFACT. In contrast, in ANSI X12 there are two messages used for acknowledgment: `TA1` and `997/999 ACK`.

Use of a `CONTRL` message for acknowledging receipt of an interchange, group or message is not required in EDIFACT. The use of `CONTRL` is by trading partner agreement.

Support for File Conversion

The EDIFACT protocol supports these conversions:

- Validation of EDIFACT documents and their conversion to TEXT files, either delimited or positional, based on the TEXT guidelines developed in TIBCO Foresight® EDISIM® and mapped using the Translator tool.
- Conversion of the TEXT files to EDI for the Notify operation, where TEXT files are converted to EDIFACT protocol. To perform this conversion, the trading partner must enable both the TEXT and the EDIFACT protocol..



To learn more about TEXT to EDI conversion, see *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide*, "TEXT to EDI Conversion."

Chapter 2 **Tutorial — Getting Started**

This chapter gives an overview of how to use TIBCO ActiveMatrix BusinessWorks with TIBCO BusinessConnect EDI Protocol powered by Instream. In this tutorial you will configure trading partner information, configure a private process to communicate with TIBCO BusinessConnect EDI Protocol powered by Instream, and run the tutorial.

Topics

- [Overview, page 10](#)
- [Prerequisites, page 11](#)
- [Using EDI Guidelines, page 12](#)
- [Configuring the Initiator, page 15](#)
- [Configuring Private Processes, page 20](#)
- [Running the Tutorial, page 26](#)
- [Sending Multiple Messages in a Batch, page 31](#)

Overview

In this tutorial you will use TIBCO ActiveMatrix BusinessWorks and TIBCO BusinessConnect EDI Protocol powered by Instream 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 defined transport properties store the request in a directory on the local file system.

When you run the tutorial, the following steps occur:

1. TIBCO Designer/TIBCO Business Studio reads an XML file which contains the data for the ORDERS message.
2. TIBCO Designer/TIBCO Business Studio parses the XML and sends the XML data to TIBCO BusinessConnect EDI Protocol powered by Instream.
3. TIBCO BusinessConnect EDI Protocol powered by Instream converts the XML data to EDIFACT data.
4. TIBCO BusinessConnect EDI Protocol powered by Instream validates the EDIFACT data against an ORDERS guideline.
5. The validated EDIFACT data is bundled into an interchange for sending to the trading partner.
6. The FILE transport is used to simulate sending the interchange to the trading partner. By using the FILE transport, the EDIFACT interchange is 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. The steps involved in setting up TIBCO BusinessConnect EDI Protocol powered by Instream to run the tutorial are the same steps that have been discussed in *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide*, Chapter 3, Exchanging Documents.

- EDI Guideline Authoring
- Trading Partner Setup
- TIBCO ActiveMatrix BusinessWorks Process

Prerequisites

Before starting the tutorial:

1. Install the following software packages:
 - a. TIBCO BusinessConnect (Server)
 - b. TIBCO BusinessConnect Palette or TIBCO ActiveMatrix BusinessWorks Plug-in for BusinessConnect
 - c. TIBCO Foresight® Instream® Standard Edition
 - d. TIBCO Foresight® Translator Standard Edition
 - e. TIBCO BusinessConnect EDI Protocol powered by Instream.
2. If you are not familiar with the UN/EDIFACT standard, read [Chapter 1, EDIFACT Overview, on page 1](#).
3. See *TIBCO BusinessConnect Interior Server Administration* and the *TIBCO BusinessConnect Trading Partner Administration* for complete information on setting up and running TIBCO BusinessConnect.
4. Review *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide*, "Setting Up Trading Partners."
5. Activate TIBCO BusinessConnect EDI Protocol powered by Instream.

Using EDI Guidelines

The guidelines used for this tutorial can be found in the directory
`BC_HOME\protocols\tibedi\samples\sampleDocs\guidelines`.

The guideline file names are: `Edifact_41_CTRL.sef`, `Edifact_D3_CTRL.sef` and
`Edifact_D93A_Orders.sef`.

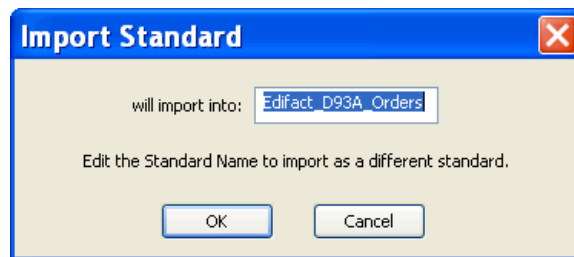
View a Guideline

This section explains how to view the guideline used in the tutorial.

To import a guideline:

1. Select **FORESIGHT > EDISIM > Standards Editor**.
2. In the Empty Guideline dialog, select **File > Import > Import Single .SEF and Open**.
3. Go to `BC_HOME\protocols\tibedi\samples\sampleDocs\guidelines` and select the `Edifact_D93_Orders.sef` file.
4. Click **Open**.
5. In the Import Standard dialog, keep or change the Standard name into which this guideline will be imported.

Figure 2 Import a Guideline



6. Keep the guideline name as `Edifact_D93A_Orders` and click **OK**.
 The imported standard `Edifact_D93A_Orders` is now displayed.
7. Click the + signs on the left to display the ORDERS guideline.

Figure 3 Elements of the ORDERS Message

The screenshot shows a software window titled "Edifact_D93A_Orders - Edisim". It features a menu bar (File, Edit, View, Window, Help) and a toolbar with various icons. Below the toolbar is a table with columns: Item (PosID), Description, Req, U/A, Repeat, and Type. The table lists the elements of the ORDERS message, including Dictionary Objects, ORDERS, and various segments like UNH, BGM, DTM, PAI, ALI, IMD, FTX, and their respective groups. The table is as follows:

Item (PosID)	Description	Req	U/A	Repeat	Type
Dictionary Objects					
ORDERS	Purchase Order Message				
005 : UNH	Message Header	M		1	
010 : BGM	Beginning of Message	M		1	
015 : DTM	Date/Time/Period	M		35	
020 : PAI	Payment Instructions	C		1	
025 : ALI	Additional Information	C		5	
030 : IMD	Item Description	C		1	
035 : FTX	Free Text	C		5	
Group 1: RFF-DTM		C		10	
Group 2: NAD-LOC-FIL...		C		20	
Group 6: TAX-MQA-LOC		C		5	
Group 7: CUX-PCD-D...		C		5	
Group 8: PAT-DTM-P...		C		10	
Group 9: TDT-SG10		C		10	
Group 11: TOD-LOC		C		5	
Group 12: PAC-MEA-S...		C		10	
Group 14: EQD-HAN...		C		10	
Group 15: SCC-FTX-R...		C		10	
Group 17: API-DTM-R...		C		25	
Group 18: ALC-ALI-DT...		C		15	
Group 24: RCS-RFF-D...		C		100	
Group 25: LIN-PIA-IM...		C		200000	
750 : UNS	Section Control	M		1	
755 : MQA	Monetary Amount	C		12	
760 : CNT	Control Total	C		10	
Group 51: ALC-ALI-MQA		C		10	
780 : UNT	Message Trailer	M		1	

As you expand and highlight elements in the Guideline panel, the properties of each element display in the Details View panel on the bottom.

Load Guidelines to the EDIFACT Protocol

This section describes how to load the guidelines and XSDs for the EDIFACT messages. TIBCO BusinessConnect EDI Protocol powered by Instream contains a sample configuration file for this tutorial.

Import the configuration file into the Operations Editor as follows:

1. Using TIBCO Administrator, select **BusinessConnect > Operations Editor**.
2. Click the **Import** button.
3. Click **change** next to the **Upload Configuration Data File** field.
4. Click **Browse** to navigate to the `BC_HOME\protocols\tibedi\samples\interfaces` directory.
5. Select the `EDIFACT-1.csx` file, and then click **Open**.
6. Click **OK**.

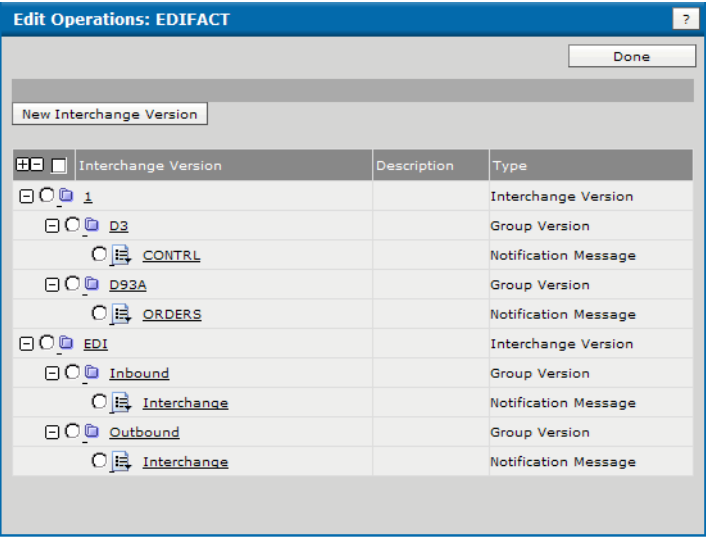
- 7. Supply your password (optional) and click **Import**.

Review the Guidelines

To review the guideline loaded for the purchase order transaction:

- 1. Click the **EDIFACT** link.
- 2. Click the topmost + (plus) sign on the left.

Figure 4 EDIFACT Operations



- 3. Click the **ORDERS** link.
- 4. Click the **Guideline** tab.

Note that Edifact_D93A_Orders.sef is displayed in the **Guideline** file for validating **EDIFACT Partner data (.sef or .std)** field.

- 5. Click **Save** and **Done**.

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, perform the following steps:

- Make sure that you have downloaded guidelines for this tutorial as described in [Load Guidelines to the EDIFACT Protocol on page 13](#).
- [Set Up a Host for the EDIFACT Protocol, page 15](#)
- [Set Up a Partner, page 17](#)
- [Configure the Business Agreement, page 19](#)
- [Deploy the Initiator Server, page 19](#)

Set Up a Host for the EDIFACT Protocol

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 EDI protocols, follow these steps:

1. [Start Creating a New Host, page 15](#)
2. [Set the Interchange Qualifier and ID for the Host, page 16](#)
3. [Activate the Host, page 16](#)

Start Creating a New Host

To create and set up the default host, perform the following steps:

1. Using TIBCO Administrator, select **BusinessConnect > Participants**.
2. Click the **New** button in the right panel.
3. Type `Company1` in the **Name** field.
4. Select **Host** in the **Type** list.
5. Click **OK**.
6. Click **Apply**.

Enable the EDIFACT Protocol for the New Host

All EDI 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 the **Protocols** tab.
 - a. Select the check boxes next to all EDI protocols except for EDIFACT.
 - b. Click **Disable**.

or, if protocols have not been enabled:

 - a. Click **Enable**.
 - b. Select the check box next to EDIFACT and click **OK**.

Set the Interchange Qualifier and ID for the Host

1. Click the **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** list, select **1**.
In the ID field, type **987654321**.
5. Click **Save** and **OK**.
6. In the **Default Interchange Qualifier ID** list, select **1-987654321**.
7. 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](#): (1)987654321.
2. Click the **Company1** link.
3. In the **General** tab of the Edit Host Participant dialog, select the **Active** check box.
4. Click **Save**.



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

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

Set Up a Partner

The trading partner setup consists of these steps:

- [Create a Partner, page 17](#)
- [Enable the EDIFACT Protocol for the Partner, page 17](#)
- [Set the Interchange Qualifier and ID for the Partner, page 17](#)
- [Enable Outbound EDI Validation, page 18](#)
- [Set the Transport, page 18](#)

Create a Partner

To set up the trading partner, perform the following steps:

1. Click the **BusinessConnect > Participants** link in the left panel.
2. Click the **New** button in the right panel.
3. Type **Company2** in the **Name** field.
4. Select **Partner** in the **Type** list.
5. Click **OK**.
6. Select the **Active** check box.
7. Click **Save**.

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

Enable the EDIFACT Protocol for the Partner

1. Select the link **Company2**.
2. Click the **Protocols** tab.
3. Click the **Enable** button.
4. Select the **EDIFACT** check box.
5. Click **OK**.

Set the Interchange Qualifier and ID for the Partner

1. Click the **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** list, select **1**.
5. In the ID field, type **123456789**.
6. Click **Save**.
7. Click **OK**.
8. In the **Default Interchange Qualifier ID** list, select **1-123456789**.
9. Click **Save**.

Enable Outbound EDI Validation

To enable outbound EDI validation:

1. Click the **EDIFACT** link.
2. In the **Outbound** area of the **General** tab, select the **Enable EDI Validation** check box.
3. Click **Save**.

Set the Transport

To set the transport:

1. Click the **EDIFACT** link.
2. Click the **Transports** tab.
3. Click **Add**.
4. Provide the transport name as **FILE** and select **FILE** from the **Type** list.
5. Click **OK**.
6. In the URL field, type **C:/testEDI/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 **BusinessConnect > 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. Select the **EDIFACT** check box.
7. Click **OK**.
8. Click the **EDIFACT** link.
9. Click the **Transports** tab.
10. Make sure **FILE** is selected in the **Primary Transport** list in the Outbound Transports for Host 'Company1' area.
11. Click **Save** twice.

The new agreement between Company1 and Company2 with the enabled protocol EDIFACT is displayed.

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 EDI Protocol powered by Instream contains an example TIBCO ActiveMatrix BusinessWorks project which sends a UN/EDIFACT ORDERS message to TIBCO BusinessConnect.

This section contains the following parts:

- [Processes Overview, page 20](#)
- [Configuring Private Processes in TIBCO Designer, page 21](#)
- [Configuring Private Processes in TIBCO Business Studio, page 24](#)

Processes Overview



Process names are different in TIBCO Designer and TIBCO Business Studio. For example, the Receive CONTRL Acknowledgement process in TIBCO Designer equals the Receive_CONTRL_Acknowledgement process in TIBCO Business Studio. The following description takes processes in TIBCO Designer as an example.

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

- **EDIFACT Message Processes** This folder contains the following processes:
 - **Receive CONTRL Acknowledgement** If you are actually communicating with a trading partner in this tutorial, when the trading partner received the ORDERS message it returns a CONTRL acknowledgment.

TIBCO BusinessConnect receives the CONTRL, validates it, and converts it to XML. TIBCO BusinessConnect publishes a ResponderRequest message containing the XML document. In TIBCO ActiveMatrix BusinessWorks, the Receive CONTRL Acknowledgement process receives a CONTRL message in the form of XML data, and then extracts and logs the status of the original ORDERS message.
 - **Send ORDERS to BC** This process reads a file containing the XML equivalent of a ORDERS message and sends the XML data to TIBCO BusinessConnect.
- **Error Advisory Processes** This folder contains processes which are activated if TIBCO BusinessConnect sends any advisory messages during the processing of the ORDERS messages. The Error Advisory Processes folder contains the following processes:
 - **Ack Timeout Error Advisory Received** This process is activated when TIBCO BusinessConnect sends a timeout advisory due to not receiving a CONTRL message

for the original ORDERS message within the default timeout period of 1440 minutes (24 hours).

- **General Error Advisory Received** This process is activated when TIBCO BusinessConnect sends a general error advisory. There are several conditions which cause this advisory to be sent. For example, it is sent when an invalid message has been sent from TIBCO ActiveMatrix BusinessWorks to TIBCO BusinessConnect.

For more information on when TIBCO BusinessConnect sends a general error advisory, see *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*, Chapter 8, "Private Messages."

- **Validation Error Advisory Received** This process is activated when TIBCO BusinessConnect sends an advisory indicating that there was a validation error on the original ORDERS message.

Configuring Private Processes in TIBCO Designer

To configure private processes in TIBCO Designer:

1. [Opening the TIBCO ActiveMatrix BusinessWorks Project, page 21](#)
2. [Configuring Connections to TIBCO BusinessConnect, page 22](#)

Opening the TIBCO ActiveMatrix BusinessWorks Project

To open the sample project:

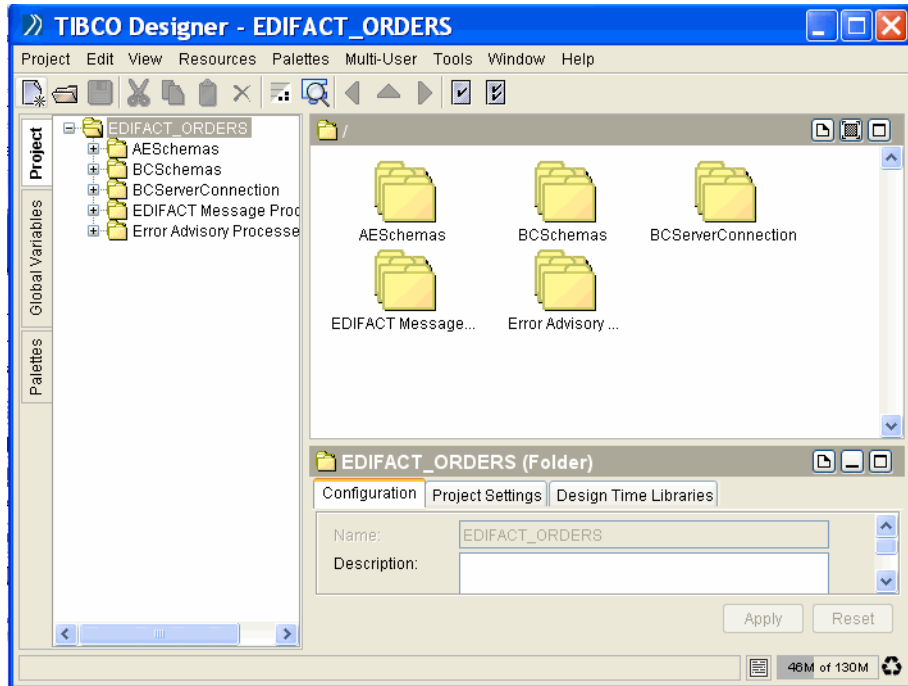
1. Start TIBCO Designer and select **New empty project**.
2. In the Save Project dialog, click **Cancel**.
3. Select **Project > Import Full Project**.
4. Click the **ZIP Archive** tab.
5. Navigate to `BC_HOME\protocols\tibedi\samples\bw\EDIFACT_ORDERS`.
6. Select **EDIFACT_ORDERS.zip** and click **Open**.
7. Click **OK**.

The Import - Options dialog is displayed.

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\tibedi\samples\bw\EDIFACT_ORDERS`.

12. Click **OK**.
13. When a dialog is displayed asking to use the directory as a project directory, click **Yes**.
The zip archive file is deleted.
14. The window shown in [Figure 5](#) is displayed.

Figure 5 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.

Configuring Connections to TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect:

1. Click the **Project** tab.
2. Expand the **BCServerConnection** 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 Type** 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 **DB Password** fields.
 - d. Click **Apply**.
4. Click the **Configuration** tab.
5. Click **Update from Configuration Store**.

If you chose TIBCO Rendezvous as the transport for private communication, the software displays a TIBCO Rendezvous tab.
6. Select **EDIFACT** from the **Protocol Name** 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 6 BusinessConnect Server Access

The screenshot shows the 'BCServerConfig (BusinessConnect Connection)' dialog box with the 'Configuration' tab active. The 'BusinessConnect Server Access' tab is also visible. The 'Name' field is 'BCServerConfig'. The 'Description' field contains 'Guide on how to change private process transports.' with a help icon. The 'Server' field is 'BC-DTZ600'. The 'PP Transport' field is 'Tibrv'. The 'Update Transport Settings' checkbox is checked. The 'Protocol Name' dropdown is set to 'EDIFACT'. The 'Imported Operations' list contains four items: '1/D3/CONTRL', '1/D93A/ORDERS', 'EDI/Inbound/Interchange', and 'EDI/Outbound/Interchange'. The 'Use Smart ID' checkbox is unchecked. At the bottom, there are three buttons: 'Update from Configuration Store', 'Import Selected Business Protocol', and 'Apply'.

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

Configuring Private Processes in TIBCO Business Studio

To configure a private process in TIBCO Business Studio:

1. [Opening the TIBCO ActiveMatrix BusinessWorks Project, page 24](#)
2. [Configuring Connections to TIBCO BusinessConnect, page 24](#)

Opening the TIBCO ActiveMatrix BusinessWorks Project

To open the TIBCO ActiveMatrix BusinessWorks project in TIBCO Business Studio:

1. Start TIBCO Business Studio.
2. Click **File > Import**.
3. On the Import page, expand the **General** folder and select **Existing Studio Projects into Workspace**. Click **Next**.
4. Click **Browse** next to the **Select archive file** field to navigate to the *BC_HOME/protocols/tibedi/samples/bw/EDIFACT_ORDERS* directory, and select the *EDIFACT_ORDERS_for_bw6.zip* file. Click **Open**.
5. Click **Finish**.

After importing the sample, you also need to perform the following steps:

1. Expand **EDIFACT_ORDERS > Module Descriptors** in the Project Explorer view.
2. Double-click **Module Properties**.
3. Change the default values of the *BCHome* and *TPName* properties according to your environment.

Configuring Connections to TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect:

1. In the Project Explorer view, expand **Resources** and double-click **BCConnection.bcResource**.
2. Click the **Server Access** tab.
3. Enter information as explained in [step 3](#).
4. Click the **Configuration** tab, and click **Update from Configuration Store**.
5. Select **EDIFACT** from the **Protocol Name** list.

If you select the **Select Operations** check box, you can select any of the configured/imported operations. For this tutorial, select all operations and click **OK**.

6. Click **Import Selected Business Protocol**.

When you import the protocol, TIBCO ActiveMatrix BusinessWorks retrieves information from the TIBCO BusinessConnect configuration store and puts them in the project folder.

7. Click **Save**.

Running the Tutorial

To run the tutorial, follow these steps:

1. Send the transaction from TIBCO Designer.
See [Send the ORDERS Message, page 26](#).
2. Check the results of sending the message.
See [Expected Results, page 28](#) and [View the Audit Log, page 28](#).



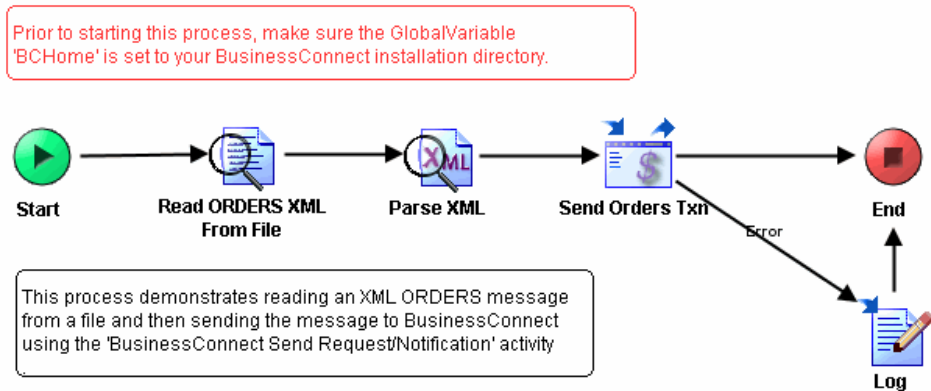
The steps of how to load and run private processes in TIBCO Business Studio are similar to TIBCO Designer. See TIBCO ActiveMatrix BusinessWorks Documentation for more details.

Send the ORDERS Message

In the Project window, select **EDIFACT_ORDERS > EDIFACT Message Processes > Send ORDERS To BC**.

The Send ORDERS to BC process is shown on [Figure 7](#).

Figure 7 Sending the ORDERS Message



The Send ORDERS to BC process does the following:

1. Reads a file containing XML data for the ORDERS message.
2. Parses Edifact_D93A_Orders.xml.
3. Constructs a message containing the Edifact_D93A_Orders.xml data and sends it to TIBCO BusinessConnect EDI Protocol powered by Instream.

Run the Process

To run the process:


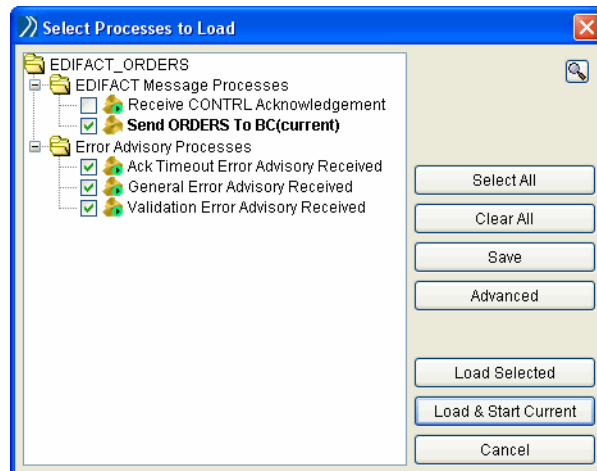
1. Click the **Tester** tab.
2. Click **Start testing viewed process** .

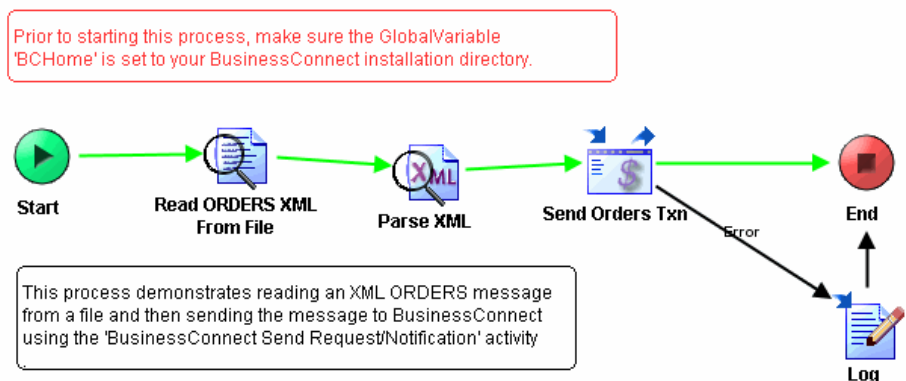
Figure 8 Select Processes to Load



3. Select the check box next to **Send ORDERS To BC** in the EDIFACT Message Processes folder. Select the check boxes next to all three processes in the Error Advisory Processes folder.
4. Click **Load Selected**.

If everything was configured properly, you will get the following result:

Figure 9 XML ORDERS Message Read from a File



Expected Results

Once the ORDERS message is received by TIBCO BusinessConnect EDI Protocol powered by Instream:

1. TIBCO BusinessConnect EDI Protocol powered by Instream validates the EDIFACT data against the ORDERS guideline.
2. The validated EDIFACT data is bundled into an interchange for sending to the trading partner.
3. The EDIFACT interchange is written to a file on the local file system when it simulates sending the interchange to the trading partner.

What you can observe:

- The Send ORDERS Txn activity of the Send ORDERS To BC process should contain output that indicates the ORDERS message was successfully sent to the trading partner.
- The directory c:\testEDI\out should contain a file which contains the EDIFACT ORDERS message that was sent to the trading partner by TIBCO BusinessConnect EDI Protocol powered by Instream.
- The audit log should contain entries that for each processing state that occurred in TIBCO BusinessConnect. See [View the Audit Log](#).
- After 24 hours, TIBCO BusinessConnect EDI Protocol powered by Instream will send an ack timeout error advisory to TIBCO ActiveMatrix BusinessWorks. However, for the purposes of this tutorial, it is not necessary to wait for this advisory message to arrive.

View the Audit Log

To view the audit log on the Initiator machine, perform the following steps:

1. Using TIBCO Administrator, click the **BusinessConnect > Log Viewer** link in the left panel.
2. Click the **EDIFACT** link in the right panel.
3. Select items from the following lists: **Status**, **Connection**, and **Date Range**.
4. Click **Search**.

Figure 10 EDIFACT Audit Log

Audit Logs : EDIFACT > Connection : bc-db

Search Done

Filters

Status: ANY

Connection: bc-db

Date Range: --Custom--

Start: September 25 2014 9 : 20

End: September 25 2014 9 : 30

Advanced: None Add

Summary Results

Search in Results Show All

Group by: Date Group

Hide Header

Date Group	Time Stamp (CST)	Operation ID	Document ID	Trading Partner	Interchange Qlfr	Interchange ID	User Key	Int Control Number	Group Control Number	Txn Control Number	Initiated by Host
THIS HOUR	Sep-25-2014 09:21:38 AM	1/D93A/ORDERS	tBPEorXSeaWaz-2jDPSKfBLUCf-	Company2	1	123456789	1	1	1	1	true

1 item(s)


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

Figure 11 Transaction Details for the EDIFACT Audit Log

Transaction Details

Done

Filters > Status : ANY > Sep-25-2014 09:20 ~ Sep-25-2014 09:30

Summary : 1 of 1

Gateway Instance Information	Operation ID	1/D93A/ORDERS
Document ID	tBPEorXSeaWaz-2jDPSKfBLUCf-	
Trading Partner	Company2	
Interchange Qlfr	1	
Interchange ID	123456789	
User Key		
Int Control Number	1	
Group Control Number	1	
Txn Control Number	1	
Initiated by Host	true	

Back Next

States [change view](#)

Time Stamp	Status	State	Description	Transmission ID	Transmission Time
Sep-25-2014 09:21:36 AM	PENDING	RECEIVED_FROM_PP	Received message from Private Process. This message can be resent.		
Sep-25-2014 09:21:37 AM	PENDING	REQUEST_FROM_PP	Received request EDI message from private process.		
Sep-25-2014 09:21:37 AM	ACK PENDING	TXN_VALIDATION_COMPLETE	Request converted successfully.		
Sep-25-2014 09:21:37 AM	ACK PENDING	REQUEST_TO_TP	Document sent to Trading Partner via file://c:/testEDI/out/Company2-tBPEorXSeaWaz-2jDPSKfBLUCf-.request	tBPEorXSeaWaz-2jDPSKfBLUCf-	Thu Sep 25 09:24:20 CST 2014 (actual)
Sep-25-2014 09:21:38 AM	ACK PENDING	RESPONSE_TO_PP	EDI Document has been sent to the Trading Partner successfully.		


6. Click the icon  next to the specific transaction to see more details.

Figure 12 RECEIVED_FROM_PP

Transaction Details

?

Done

Filters > Status : ANY > Sep-25-2014 09:20 ~ Sep-25-2014 09:30

Summary : 1 of 1

Gateway Instance Information

Operation ID 1/D93A/ORDERS

Document ID tBP6orKSeaWaz-2jDPSKfBLUCf-

Trading Partner Company2

Interchange Qlfr 1

Interchange ID 123456789

User Key

Int Control Number 1

Group Control Number 1

Txn Control Number 1

Initiated by Host true

Back

Next

State : 1 of 5

change view

Time Stamp Sep-25-2014 09:21:36 AM

Status PENDING

State RECEIVED_FROM_PP

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

Resend

Save Message [131631 bytes]

Back

Next

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

Sending Multiple Messages in a Batch

This section explains how to send a batch of ORDERS messages in a single interchange envelope.

Configure the Batch Scheduler

To send a batch of ORDERS messages to a fictitious trading partner, you must enable the batch scheduler as follows:

1. Click **BusinessConnect>Business Agreements**.
2. Click a business agreement **Company1-Company2**.
3. Click the **EDIFACT** agreement protocol binding.
4. Click the **Scheduled Transmission** tab.
5. Select the **Enable** check box.
6. Select **Everyday** in the **Transmission Mode** list to activate the start and end time period for every day of the week.
7. Select **Every 5 mins** from the **Frequency** list. This schedules batching for 5 minute increments from the start time.
8. Optionally, set a maximum Transaction Count Threshold to override the Every 5 mins interval when the number of cumulated transactions exceeds the specified limit before the next 5 minute interval expires.
9. Click **Save** twice.

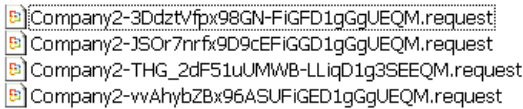
Send Multiple Messages

To send multiple messages in a batch, repeat steps from the section [Send the ORDERS Message on page 26](#). After 5 minutes have elapsed, the batching occurs. A batch of ORDERS messages are bundled into a single interchange envelope, which is transmitted to your fictitious trading partner using the configured outbound FILE transport.

Expected Results

- The validated EDIFACT data is batched for scheduled transmission to the trading partner when the next 5 minute interval expires.
- The directory c:\testEDI\out should contain a file which contains a batch of ORDERS messages bundled within a single interchange envelope that was sent to the trading partner by TIBCO BusinessConnect EDI Protocol powered by Instream.

Figure 13 Batch Orders



View the Audit Log

After the batch is sent, the control number fields are updated with the actual control numbers (see Figure 14).

Figure 14 Batched Messages After Sending

Date Group	Time Stamp (PDT)	Operation ID	Document ID	Trading Partner	Interchange Offr	Interchange ID	User Key	Int. Control Number	Group Control Number	Ten. Control Number	Initiated by Ho
<input type="checkbox"/> THIS HOUR											3 item
Mar-08-PM	04:10:33	1/D93A/ORDERS	WmnklQzhxAQ_235FIgHD1gGgUEQM	Company2	1	987654321		4	4	2	true
Mar-08-PM	04:10:33	1/D93A/ORDERS	vrH1mUrnxAQdb-FiGID1gGgUEQM	Company2	1	987654321		4	4	1	true
Mar-08-PM	04:10:33	EDI/Outbound/Interchange	5FK94P-MSBWOU-0008EJ-QU2357-010R	Company2	NA	NA		NA	NA	NA	true

Before the five minutes have elapsed, the messages display with a batch in the control number fields (Figure 15).

Figure 15 Transaction Detail of Batched Messages After Sending

Date Group	Time Stamp (PDT)	Operation ID	Document ID	Trading Partner	Interchange Offr	Interchange ID	User Key	Int. Control Number	Group Control Number	Ten. Control Number	Initiated by Ho
<input type="checkbox"/> THIS HOUR											6 item
Mar-08-	04:21:29 PM	1/D93A/ORDERS	t59PPymdxBhbQEfiGKD1gGgUEQM	Company2	1	987654321		batch	batch	batch	true
Mar-08-	04:20:32 PM	1/D93A/ORDERS	TRJvJJDfxB6FkFiGID1gGgUEQM	Company2	1	987654321		5	5	1	true
Mar-08-	04:20:32 PM	EDI/Outbound/Interchange	5FK94P-MSBWOU-00032K-H4XQRA-019Y	Company2	NA	NA		NA	NA	NA	true
Mar-08-	04:10:33 PM	1/D93A/ORDERS	WmnklQzhxAQ_235FIgHD1gGgUEQM	Company2	1	987654321		4	4	2	true
Mar-08-	04:10:33 PM	1/D93A/ORDERS	vrH1mUrnxAQdb-FiGID1gGgUEQM	Company2	1	987654321		4	4	1	true
Mar-08-	04:10:33 PM	EDI/Outbound/Interchange	5FK94P-MSBWOU-0008EJ-QU2357-010R	Company2	NA	NA		NA	NA	NA	true

Chapter 3

Managing EDIFACT Interchanges, Functional Groups, and Messages

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

Topics

- [Overview, page 34](#)
- [Adding an Interchange Version, page 35](#)
- [Adding a Group Version to an Interchange Version, page 36](#)
- [Adding a Message to a Group Version, page 38](#)
- [Configuring CONTRL Transactions, page 44](#)
- [Configuring Validation Profile \(.apf\) Files, page 47](#)
- [Exporting Interchange Versions, Group Versions, and Messages, page 52](#)
- [Importing an Interchange Version, page 53](#)

Overview

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

- Interchange
- Functional group
- Message

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

You configure the guidelines for each of these structures. Once you have configured messages, the messages 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 93](#) for more information.



To properly mark the UN segments with a DSR mark, as required for proper acknowledgments generation, see the documentation provided with the EDISIM Standards Editor.

Adding an Interchange Version

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

To add an interchange version:

1. Load a guideline as described in [Load Guidelines to the EDIFACT Protocol, page 13](#).
2. Click the **BusinessConnect> Operations Editor** link in the left panel.
3. Click the **EDIFACT** link.
4. Click **New Interchange Version**.
5. In the Name field, enter a name that corresponds to the UN/EDIFACT syntax version, such as 1, 2, 3, or 4.
6. Add the description for the new interchange (optional).
7. The Error Limit setting is used to control the number of errors reported to the back end or audited at transaction, group or interchange level to avoid system overload. The error limit 0 means that no error limit is set.

Interchange Setting (Default to 1000). Only up to 1000 errors will be reported for all the groups and messages in the Interchange. Any errors over that limit will not be reported, but the acknowledgment (CONTRL) will report everything.

8. 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, perform the following steps:

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



In some cases, you may need to handle inbound 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, see [Adding a Message to a Group Version, page 38](#).

Table 3 Group Version Fields

Field	Description
Name	<p>A name for the group. Example: D98A.</p> <p>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 EmptyGroup and then proceed to Adding a Message to a Group Version on page 38. For an EmptyGroup group version, there is not an associated guideline.</p>
Description	Description for the new group
Error Limit	<p>The Error Limit setting is used to control the number of errors reported to the back end process or audited at the message, group or interchange level to avoid system overload. The error limit 0 means that no error limit is set.</p> <p>Group Setting (Default to 100).</p> <p>Only up to 100 errors will be reported for all the messages in the group. Any errors over that limit will not be reported, but the acknowledgment (CONTRL) will report everything.</p>
UNG-0051 Controlling Agency Code	Example: UN
UNG-S008/0052 Version Number	Example: D

Table 3 Group Version Fields (Cont'd)

Field	Description
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 EDIFACT message:

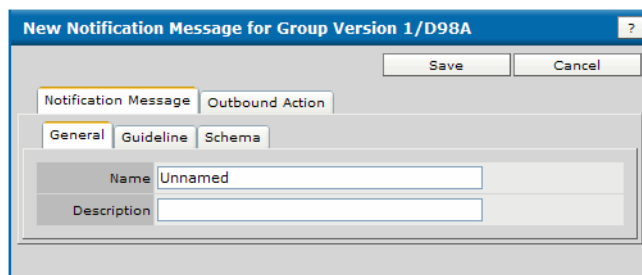
1. Click a group version radio button.
2. Click **New Message**.

The **Operation Type** list is displayed with **Notification** selected.

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

3. Click **OK**.

Figure 16 Edit Notification Message



Notification Message Tab

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

- [General Tab, page 39](#)
- [Guideline Tab, page 39](#)
- [Schema Tab, page 41](#)

General Tab

Table 4 Notification Transaction: General tab

Field	Description
Name	A name for the message
Description	Description for the message
Inbound Raw EDI Segments	
Include in Private Process Request	<p>Default is unchecked</p> <p>Enable the output of the raw EDI segments in the private process request. The raw EDI data of the interchange and group envelope header and trailer segments are always included. The interchange envelope includes the header UNB segment and the trailer UNZ segment. The group envelope includes the header UNG segment and trailer UNE segment.</p>
Include in Validation Error Advisory	<p>Default is checked</p> <p>Enable the output of the raw EDI segments in the validation error advisory.</p>
Extra Transaction Info	<p>Data included in the message to the private process for each message of this type. Some examples of uses of this field include:</p> <ul style="list-style-type: none"> • Routing information based upon the type of message • Cost information for the type of message. <p>If the information you wish to put into this field is trading partner dependent, there is a separate trading partner level information field. For information on the trading partner level field, see General Tab on page 67.</p>

Guideline Tab

Table 5 Notification Transaction: Guideline Tab

Field	Description
UNG-0038 Group ID	<p>The mandatory ID of the message.</p> <p>Entering the UNG-0038 group ID does not indicate that a functional group must be used. The UNG-0038 group ID that would normally be indicated in the Functional Group Header is needed by the EDI conversion engine whether or not a functional group is used.</p>

Table 5 Notification Transaction: Guideline Tab (Cont'd)

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 described in detail in Configuring Validation Profile (.apf) Files, page 47.</p>
Error Limit	<p>The Error Limit setting is used to control the number of errors reported to the back end process or audited at transaction, group or interchange level to avoid system overload. The error limit 0 means that error limit is not set.</p> <p>Message setting (Default set to 10). Only up to 10 errors will be reported per message, both in the audit and ERROR.VALIDATION; however, acknowledgments will have all the errors that are being reported.</p>
Inbound Type of Translation	
Inbound EDIFACT Translation Type (e.g. EDI to XML or EDI to TEXT)	<p>From the list, select one of the following items:</p> <ul style="list-style-type: none"> • EDI to XML This is the default value. It can be overridden at the business agreement level to do EDI to TEXT translation (see Table 24, Override Settings for a Transaction: Guideline) • EDI to TEXT When a proper TEXT guideline is uploaded and an appropriate translation map for mapping EDI to TEXT is created, the output is a TEXT file.
TEXT Translation Guideline	
Guideline File used for translating EDIFACT to TEXT (.sef or .std)	Click change to select a guideline file for translating EDIFACT to TEXT.

Schema Tab

Table 6 Notification Transaction: Schema Tab

Field	Description
Transaction Schema for EDI to XML or XML to EDI(.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/TIBCO Business Studio when a connection to TIBCO BusinessConnect is created in TIBCO Designer/TIBCO Business Studio.
Request Root Element Name	Enter the name of the root element, for example, T-ORDERS for the Orders Message.
EDI to XML (or EDI to TEXT) Translation Map file (.map)	Click change to select the EDI to XML or EDI to TEXT translation map file associated with this message type. <ul style="list-style-type: none"> • If EDI to TEXT is selected, then the appropriate EDIFACT to TEXT translation map must be uploaded for the translation to occur. • If EDI to XML is selected as the inbound type of translation, then the appropriate EDIFACT to XML translation map must be uploaded for the translation to occur. <p>Note that EDI to XML translation map files have an extension <code>_EX.map</code>.</p>
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 XML to EDI 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:

Table 7 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)

Table 8 Outbound Action: Batching Tab

Field	Description
Batch Option	<p>Select from among the following options in the Batch Option list:</p> <ul style="list-style-type: none">Always This is the default option. If Scheduled Transmission is enabled in the Scheduled Transmission tab of a trading partner's business agreement with the host, all messages of this transaction type for that trading partner will be placed into batches. The batches will be sent based upon the settings in the business agreement's Scheduled Transmission tab. See Overview on page 92.Never Messages of this transaction type are not to be included in any batches regardless of whether the scheduled transmission has been enabled for a trading partner. All messages of this type will be sent immediately to your trading partners and will bypass the schedule time/batch settings for your trading partners.Exclusively When messages of this transaction type are included in a scheduled batch, they will be separated into interchanges containing only messages of this type. This choice allows you to batch transactions based upon transaction type. For example, you can batch all ORDERS transactions and all BANSTA transactions so that your trading partners will receive ORDERS transactions in one interchange and BANSTA transactions in another interchange. The exclusive batching feature includes two options where TIBCO BusinessConnect can transmit:<ul style="list-style-type: none">— Each interchange in its own document.— Multiple interchanges in a single document.

Acknowledgement Tab

Table 9 Outbound Action: Acknowledgement Tab

Field	Description
Maximum Wait (minutes)	<p>The default value is 1440 minutes.</p> <p>This is the maximum amount of time that TIBCO BusinessConnect will wait for an acknowledgment (CTRL functional acknowledgment transaction) from your trading partner when a message of this type is sent to your trading partner.</p> <p>If an acknowledgment is not received within the time limit specified, TIBCO BusinessConnect logs an ACK_RESPONSE_TIMEOUT state for the original message and sends an alert message on the subject.</p>
Reconcile After Timeout	<p>Acknowledgments that are received after the timeout period are reconciled and processing of the original message continues.</p> <p>Normally when an acknowledgment times out, the final status of the original message will be set to ACK TIMEOUT ERROR. If the acknowledgment is received after the timeout period, it will be ignored.</p>
Mark as Completed After Timeout	<p>Final status of Completed with a state of ACK_RESPONSE_TIMEOUT is logged for the original message in the case when the acknowledgment for the message is not received before the specified timeout. If you select this and the acknowledgment is received after the timeout, it will be ignored.</p> <p>This feature is useful when your trading partner is sending an acknowledgment only when validation errors occur for the original message. After the acknowledgment timeout period expires, the original message is assumed to be accepted by your trading partner.</p>

For information on configuring acknowledgments, see Chapter 5, Acknowledgments and Reconciliation in *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide*

Configuring CONTRL Transactions



To properly mark the UN segments with a DSR mark, as required for proper acknowledgments generation, see the documentation provided with the EDISIM Standards Editor.

If acknowledgments will be sent or received for EDIFACT documents, you must configure a CONTRL message by following these conventions:

- The normal message version number for a CONTRL message is **D**
- The normal message release number for a CONTRL message is **3**

Therefore, a CONTRL message would typically be configured under a group version named D3. However, if functional groups are not used, the CONTRL message would be configured under a group version named EmptyGroup.

Multiple Configurations for the Same Message Type

TIBCO BusinessConnect EDI Protocol powered by Instream provides a feature called name modifiers that you may need to use to provide multiple configurations for your message. There are two types of name modifiers:

- [Message Name Modifiers](#)
- [EmptyGroup Name Modifiers](#)

Message Name Modifiers

Message name modifiers are used when you need to configure multiple guidelines for the same message type and only certain trading partners will be allowed to use the alternate message configurations.

You may need different guidelines for the same message type to satisfy the message exchange requirements for all of your trading partners. For example, the BANSTA guideline used for a trading partner A may include additional data elements which may not be suitable for other trading partners. These additional data elements may also result in the generation of an XSD for the guideline which is different from the XSD generated for normally-used BANSTA guidelines.

To handle this situation, you can configure multiple versions of the same message type by using message name modifiers when configuring the message.



One business agreement can have only one name modifier of the same transaction or message type.

To use a message name modifier:

1. Enter the name of the message type in the Name field of the **Notification Transaction > General** tab.
2. Append a colon : to the name.
3. Enter a short description after the colon to differentiate the message type configurations.

For example, you can configure two versions of a D98A BANSTA message as:

1/D98A/BANSTA

1/D98A/BANSTA:TPA

You must configure the generic 1/D98A/BANSTA version to exchange any BANSTA messages with your trading partners, including messages for the trading partner for which you are using the modified version. In the example above, this is Trading Partner A, using the version 1/D98A/BANSTA:TPA.

For the name modified version 1/D98A/BANSTA:TPA to be used for trading partner A, you must bind the name modified version 1/D98A/BANSTA:TPA to trading partner A.

For further information, see [Operation Bindings Tab on page 93](#).

When an inbound BANSTA message is received for trading partner A, the guideline associated with the named modified version 1/D98A/BANSTA:TPA will be used for validation of the message. The OperationID field of the ResponderRequest message to the private process will contain the modified message name 1/D98A/BANSTA:TPA. This message name allows the private process to filter and handle this non-generic BANSTA message from trading partner A.

EmptyGroup Name Modifiers

EmptyGroup name modifiers are used when you don't use functional groups and you need to configure different versions of the same message type. For example, you may need to configure both versions D93A and D98A of an ORDERS message under the group EmptyGroup.

When not using functional groups, you may need to configure multiple versions of the same message type. For example, you may need to configure a D93A ORDERS message type and a D98A ORDERS message type.

You could use message name modifiers to configure the message types as follows:

1/EmptyGroup/ORDERS

1/EmptyGroup/ORDERS:D98A

The disadvantage of using message name modifiers in this situation is that you would have to bind 1/EmptyGroup/ORDERS:D98A for every trading partner that uses it. This can become cumbersome if you have to manage more than a few trading partners.

EmptyGroup name modifiers can be used in this situation to identify the different message types in the Operations Editor. Multiple group versions are created using the following EmptyGroup name modifier syntax:

EmptyGroup:*Version/ReleaseNumber*

For this example, you would configure the following in the Operations Editor:

1/EmptyGroup:D93A/ORDERS

1/EmptyGroup:D98A/ORDERS

This configuration would allow TIBCO BusinessConnect EDI Protocol powered by Instream to detect at runtime the appropriate configuration, and therefore guideline, to use for validating the different ORDERS messages.

Configuring Validation Profile (.apf) Files

By default, any validation error that occurs will cause a transaction to be rejected. When a transaction is rejected, the CONTRL generated will contain a UCM segment with a Transaction Set Acknowledgment Code of **4** for the transaction. When validating EDI transactions, it is desirable to be able to control whether a validation error should cause the rejection of the entire transaction or not.

Sometimes we may want the error reported and the transaction rejected. At other times we may want to report the error in the CONTRL but to accept the transaction anyway (for example, the generated CONTRL would have a Transaction Set Acknowledgment Code of accepted with errors). We might want validation errors ignored altogether or we might want only some validation errors ignored. In conjunction with EDISIM Validator, TIBCO BusinessConnect EDI Protocol powered by Instream now provides the ability to configure the severity errors which occur in EDI transactions.

Severity Level

When a transaction is rejected, error information is also sent to the private process on the subject AX.BC.<BC instance name>.EDIFACT.ERROR.VALIDATION. This error information contains the transaction ID of the transaction which had validation errors and descriptive information about the validation errors similar to the following:

Setting different error severity types to validation errors will affect the information about the validation errors that is contained in CONTRL acknowledgments and the error information reported to the private process. It will also affect whether the given transaction is converted from EDI to XML or from XML to EDI. When a transaction is rejected, no conversion takes place. [Table 10](#) describes the four levels of severity which can be configured for validation errors and their affect on how error information is reported.

Table 10 Error Severity Types and Levels

Error Severity Type	CONTRL Acknowledgment	Error Information to Private Process	Data Conversion Occurs?
Normal	UCM or UCF segments report transaction/functional group status rejected. UCD segments might contain information about the location of the error in the transaction as appropriate.	The cause of the errors is reported in the message to the private process with the error code and a description of the error.	No

Table 10 Error Severity Types and Levels (Cont'd)

Error Severity Type	CONTRL Acknowledgment	Error Information to Private Process	Data Conversion Occurs?
Warning	UCM or UCF segments report transaction/functional group status accepted with errors. UCD segments might contain information about the location of the error in the transaction as appropriate.	The cause of the error will be reported in the message to the private process with the error code and a description of the error. The error description begins with Warning.	Yes
Information	UCM or UCF segments report transaction/functional group status accepted. UCD segments are not present.	The cause of the error will be reported in the message to the private process with the error code and a description of the error. The error description begins with Information.	Yes
Ignore	UCM or UCF segments report transaction/functional group status accepted. UCD segments are not present.	Does not cause the generation of an error report to the private process.	Yes



Changing the normal error severity of type 1, EDI syntax integrity, validation errors should be approached with caution as it could lead to invalid EDI or XML data. The converted EDI data could have errors that your trading partner may not accept. The converted XML data may not match the XSD used by the private process. Data elements could be shifted resulting in invalid data that might not be detected during validation.

Severity Scope

The scope of error severity setting is Message.

Normally an error severity setting is applied to all validation errors of the specified type within the entire transaction.

Validating Severity Levels

The steps for validating the error severity settings for a transaction are similar to configuring the guideline for the message. You first create a Validator Profile file for a message using EDISIM Validator and then upload this file in the Protocol Editor of the TIBCO BusinessConnect configuration GUI.

Task A Create A Validator Profile (.apf) File

The Validator Profile file is created using the EDISIM Validator.

1. Start EDISIM > Validator.
2. Click **Options > Validator Profile**.
3. Select a message in the **Message** tab, change the error severity and save it.
4. In the Save Profile As dialog, save the changed profile to a new profile of the type Validator Profile (*.apf).
5. Select **File> Open**.
6. Select the .apf you have saved in step 4.

This step should open an EDI data file, such as sample data Edifact_D93A_Orders.dat.

7. Click **Open**.
An EDI compliance check will be automatically performed.
8. Select the guideline to be used to validate the data file: it should be D93A that was imported from Edifact_D93A_Orders.sef (Figure 17).

Figure 18 shows the validation result.

Figure 17 Select Standard Dialog

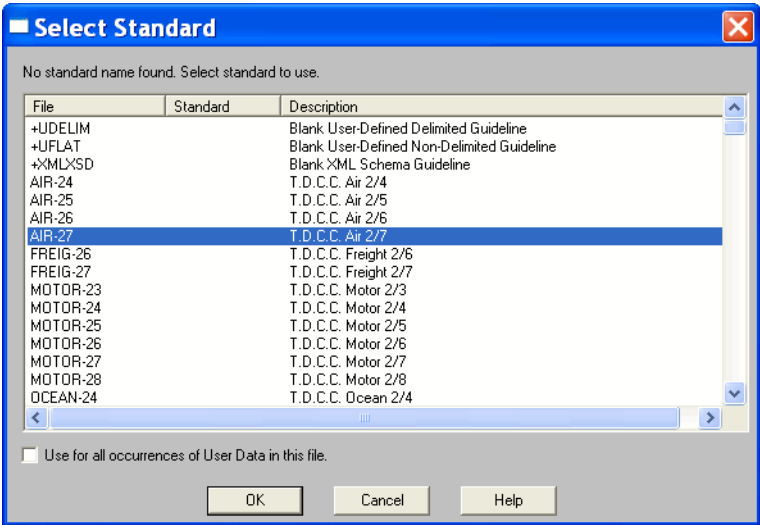
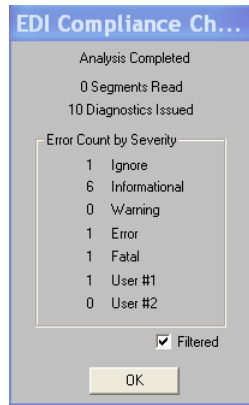


Figure 18 EDI Compliance Check

9. Select the standard to use for this guideline.
10. Click **OK**. The Diagnostics window provides the Validator analysis of the selected guideline.

Task B Apply the Validator Profile file (.apf) for a Message

To associate a transaction with a Validator Profile in EDIFACT, perform the following steps:

1. Using TIBCO Administrator, select **BusinessConnect> Operations Editor**.
2. Select **EDIFACT** from the Protocol menu.
3. Expand the operations tree and select the message with which you want to configure the Validator Profile .apf file for.
4. Select the **Guideline** tab.

Figure 19 Edit Notification Message

5. Click **change** to upload the Validator Profile file (.apf).



To apply a Validator Profile file to a transaction for a particular operation in a business agreement, bind the transaction and then override the transaction settings as described in [Operation Bindings Tab on page 93](#).

6. Select the file type:
 - **File Reference** When you select this option, enter the path to the file reference you want to use.
 - **Uploaded File** When you select this option, browse to the location of the file you want to upload. In this case, look for the file you saved in Task A.
7. Click **OK**.
8. Click **Save**.

Exporting Interchange Versions, Group Versions, and Messages

To export interchanges, groups, and messages, perform the following steps:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Select the **EDIFACT** link.
3. In the Edit Operations: EDIFACT dialog, click the topmost Plus (+) sign to show all existing transactions associated with the EDIFACT protocol.
4. Click the radio button next to the interchange, group, or message you want to export.
5. Click **Export XXX**, where **XXX** is **Interchange**, **Group**, or **Message**, depending on what you select in [step 4](#).
6. Set a password (optional) and click **Export Data**.
7. The Save As dialog is displayed 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, perform the following steps:

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**.

Sample Interchange Versions

TIBCO BusinessConnect EDI Protocol powered by Instream comes with a sample UN/EDIFACT interchange version that can be imported into the BusinessConnect configuration store.

The sample interchange version is located in
BC_HOME\protocols\tibedi\samples\interfaces\EDIFACT-1.csx

Chapter 4 **Setting Up Trading Hosts**

This chapter describes setting up trading hosts in TIBCO BusinessConnect EDI Protocol powered by Instream when using EDIFACT.

Topics

- [Configuring the EDIFACT Protocol, page 56](#)
- [General Tab, page 57](#)
- [Preprocessing Tab, page 59](#)
- [Logging Tab, page 60](#)
- [Advanced Tab, page 61](#)

Configuring the EDIFACT Protocol

To enable the 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 EDIFACT is not displayed in the list of protocols:
 - a. Click **Enable**.
 - b. Select the **EDIFACT** check box.
 - c. Click **OK**.
5. Click the **EDIFACT** link. The following configuration options are available:
 - [General Tab](#)
 - [Preprocessing Tab](#)
 - [Logging Tab](#)
 - [Advanced Tab](#)

General Tab

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

Table 11 Host 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">For outbound documents, the qualifier and ID will be specified as the interchange sender qualifier and ID in the interchange header.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.
Adding a Default Interchange Qualifier and ID	
To add a default interchange qualifier ID:	
<ol style="list-style-type: none">Click the Add New link.Click the Add New button.Select a qualifier from the Interchange Qualifier 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.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.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">Click the Add New link and then on the Add New button.Enter a name of the AS2 identity.Click the new AS2 identifier in the dropdown list.

Table 11 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 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 EDIFACT Syntax 4 only, this field is optional and is the sender internal sub-identification, when further sub-level identification is required.

- Click the **Preprocessing** tab.

Preprocessing Tab

Use the **Preprocessing** tab to configure preprocessing for inbound and outbound EDIFACT documents. Preprocessing is necessary if the EDIFACT documents you exchange with your trading partner are formatted in any way; for example, you need to preprocess if the EDIFACT document is blocked at 80 characters per line.

Table 12 Preprocessing Fields

Field	Description
Inbound and Outbound	
Characters To Strip (e.g. /r/n; /t; /0D)	<p>Formatting characters that may be in your EDIFACT documents. The EDI conversion engine of TIBCO BusinessConnect EDI Protocol powered by Instream requires EDI data that is on a single line. The exception to this requirement is when the carriage return has been specified as the segment delimiter.</p> <p>Specify any extra formatting characters that may be contained in the EDI messages you exchange with your trading partners. These formatting characters are not considered part of the EDI data itself. These formatting characters are typically used to make the EDI data more readable or to block the EDI data into lines of equal length. This would include any carriage return at the end of the data.</p> <p>See <i>TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide</i> for information on the characteristics of EDI data.</p>
Strip Chars Between Segments Boundaries	<p>Provides an easy way to remove formatting characters and selected by default.</p> <ul style="list-style-type: none">• If checked, it will cause any extraneous characters between segments to be removed from the EDI file regardless of what has been specified in Characters To Strip.• If not checked and no characters are specified in the Characters to Strip text box, you would get an error in case there are unwanted characters or any unrecognized characters other than the delimiters found in the document. <p>Characters To Strip must also be used if the EDI document has been blocked into lines of equal length because blocked documents will contain carriage returns inside of segments. Strip Chars Between Segment Boundaries only works between segments.</p>

- Click the **Logging** tab.

Logging Tab

Use the **Logging** tab to configure EDI-specific logging options available with TIBCO BusinessConnect EDI Protocol powered by Instream. For further information, see *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*, "Document Archiving."

Table 13 Logging Fields

Field	Description
Inbound	
Log Raw EDI Request to File	For inbound, log the original, intact, and unconverted inbound EDI document.
Store Location	<p>The original inbound EDI documents are archived in a directory whose name is derived from the specified location.</p> <p>For information on how the files are named, see <i>TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide</i>, "Document Archieving."</p>
Include Date Folder	Creates a file reference in a folder created based on the current date.
Outbound	
Log Raw EDI Request to File	For outbound, log the raw EDI document sent to the trading partner.
Store Location	<p>The original outbound EDI documents are archived in a directory whose name is derived from the specified location. For information on how the files are named, see <i>TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide</i>, "Document Archiving."</p>
Include Date Folder	Creates a file reference in a folder created based on the current date.

- Click the **Advanced** tab.

Advanced Tab

Use the **Advanced** tab to specify advanced settings for the handling of inbound and outbound XML documents.



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

Table 14 Host Record Advanced Fields (Sheet 1 of 3)

Field	Description
Inbound	
Publish XML (or TEXT) Request as File Reference	Write the converted XML or TEXT to a file for each inbound transaction and publish the file reference in the <code>requestFile</code> attribute of the <code>ResponderRequest</code> message to the private process. Use of this option can decrease memory usage, improving performance. The Threshold property determines how large the XML or TEXT must be before BusinessConnect writes the request to a file.
Threshold (bytes)	Specify a file size in bytes. TIBCO BusinessConnect writes XML or TEXT 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 <code>tpName</code> directory.
Store Location	Identify the directory in which BusinessConnect should store the files. If this field is empty or the directory specified is not valid, BusinessConnect behaves as if Publish XML Request as File Reference is not checked; it does not store a file; it sends the XML request.
Output XML Request in UTF-8 and Remove Empty Elements	<p>Selecting this check box instructs TIBCO BusinessConnect to perform these tasks:</p> <ul style="list-style-type: none"> • Convert the XML that is in UTF-16 format to UTF-8. • Delete XML elements in the request that contain no values. This reduces the file size. Reducing the request size is especially important when you are using the XML for back-end processing. <p>Note: Converting the XML from UTF-16 to UTF-8 in this way increases memory usage. Consider converting the XML to UTF-8 in a separate JVM process instead of using this option.</p>

Table 14 Host Record Advanced Fields (Sheet 2 of 3)

Field	Description
Use In-memory Compression During EDI to XML (or EDI to TEXT) Conversion	<p>By default this check box is unselected.</p> <p>Selecting this check box instructs TIBCO BusinessConnect to compress information stored in memory during the EDI to XML or TEXT conversion process. Although compressing and uncompressing data increases the processing time of the conversion process, it can greatly reduce memory usage. This option is useful when processing interchanges that contain a large number of messages.</p>
Threshold to Use File-based Storage During EDI to XML (or EDI to TEXT) Conversion (bytes)	<p>This threshold has a default value of 20,000,000 bytes (20MB).</p> <p>This threshold is triggered only when an inbound message comes in from a trading partner and the threshold is applied on Interchange basis: if the size of the interchange is above the threshold, the BusinessConnect EDI engine will make the conversion engine in-built to validate and process all the transactions in that interchange, including errors on the disk. Only one currently processed transaction will be loaded into memory and discarded after processing in chunks, saving memory and keeping it low. This also allows the interchange to process a lots of errors without loading them into memory.</p> <p>Frequent use of this threshold feature for very small sized files will slow the performance (depending on the network and I/O performance). It should be used only for fairly large interchanges, or for interchanges with lots of errors.</p>

Table 14 Host Record Advanced Fields (Sheet 3 of 3)

Field	Description
Inbound and Outbound	
Threshold to Use File-based Storage Prior to EDI Processing (bytes)	<p>This threshold has a default value of 1,000,000 bytes (1MB).</p> <p>This threshold is triggered for both outbound and inbound messages and applies on an interchange basis. If the interchange or XML (in case of outbound) is larger than the threshold, it makes sure to be written to a temporary local file and given to the conversion engine (instead of passing it as a blob to the engine). This reduces the memory consumption prior to EDI processing.</p> <p>This threshold does not resolve large number of smaller transaction details that will be in memory, or the number of errors that can still accumulate during processing by the conversion engine.</p>
AuditReportLogging	
Audit Report Location	<p>This field specifies the location to be used for the audit report XML files, which are placed when TIBCO BusinessConnect EDI Protocol powered by Instream validates and converts them during EDI to XML or XML to EDI processing.</p> <p>These XML files have additional information pointing to the internal details of the validated transactions.</p> <p>Example: C:\temp\htr</p>
Include Date Folder	<p>Default is checked:</p> <ul style="list-style-type: none"> • If checked, the <code>date</code> folder is added to the document path. • If unchecked, the <code>date</code> folder is omitted and the document is stored under the <code>tpName</code> directory.

- Click **Save**.

Chapter 5 **Setting Up Trading Partners**

This chapter describes setting up your trading partners in TIBCO BusinessConnect EDI Protocol powered by Instream when using EDIFACT.

Topics

- [Configuring the EDIFACT Protocol, page 66](#)
- [General Tab, page 67](#)
- [Logging Tab, page 75](#)
- [Batching Tab, page 76](#)
- [Interchange Header Tab, page 78](#)
- [Group Header Tab, page 80](#)
- [Acknowledgement Tab, page 82](#)
- [Control Numbers Tab, page 85](#)
- [Delimiters Tab, page 88](#)
- [Transports Tab, page 90](#)

Configuring the EDIFACT Protocol

Before you can enable the EDIFACT protocol, the trading partner has to be configured. To do that, see [Set Up a Partner, page 17](#).

To enable the 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 EDIFACT is not displayed in the list of protocols:
 - a. Click **Enable**.
 - b. Select the **EDIFACT** check box.
 - c. Click **OK**.
5. Click the **EDIFACT** link. The following configuration options are available:
 - [General Tab](#)
 - [Logging Tab](#)
 - [Batching Tab](#)
 - [Interchange Header Tab](#)
 - [Group Header Tab](#)
 - [Acknowledgement Tab](#)
 - [Control Numbers 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 EDIFACT such as:

- Interchange qualifier and ID
- Enable EDI validation for inbound or outbound transactions
- Enable duplicate detection
- Disable EDI to XML (or EDI to TEXT) conversion of inbound transactions

Table 15 Partner General Fields (Sheet 1 of 8)

Field	Description
Default Interchange Qualifier ID	<p>The interchange qualifier and ID to use for this trading partner.</p> <ul style="list-style-type: none"> • 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 will be matched against the values of this field to ensure that the inbound document came from this trading partner. <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 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.

Table 15 Partner General Fields (Sheet 2 of 8)

Field	Description
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 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.
Valid Email Address List	<p>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.</p> <p>This only applies when using AS1 or AS2 transport.</p>
Inbound	
Enable EDI Validation	<p>Default is checked (enabled).</p> <p>Validates inbound EDI documents before TIBCO BusinessConnect EDI Protocol powered by Instream converts and forwards them to the private process. Uses the guidelines configured in the configuration store to validate inbound EDI data.</p>
Disable EDI to XML (or EDI to TEXT) Conversion	<p>Default is unchecked (disabled).</p> <p>Disables EDI to XML conversion of inbound documents. Validation of inbound UN/EDIFACT documents will still occur using the guidelines configured in the configuration store; however the XML or TEXT corresponding to the inbound UN/EDIFACT data will not be generated.</p> <p>The ResponderRequest message is still sent to the private process. However the request attribute of the ResponderRequest message is not populated.</p> <p>This option should be used when XML or TEXT conversion of the EDI data is not required. Using this option reduces memory utilization and improves performance.</p>

Table 15 Partner General Fields (Sheet 3 of 8)

Field	Description
Enable Transaction Duplicate Detection	<p>Default is unchecked (disabled).</p> <p>Enables checking for duplicate inbound transactions.</p> <p>When this check box is selected, all inbound transactions that are received from the trading partner are inspected to see if a duplicate has been received and appropriately marked in the RESPONDER.REQUEST PP message. The duplicate attribute in ResponderRequest is marked as true if the same message is received from the trading partner.</p> <p>EDIFACT has the following attributes: Trading Partner Name, operationID, transactionName, whole transaction (only UNH to UNT segments for EDIFACT), host initiates flag, interchange control number, group control number, and transaction control number</p>
Extra Info in Private Process Request	Data included in the message to the private process for each message received from this trading partner. For example, you could use this field to pass routing information based upon the trading partner.
Allowable Receiver Identifier List (e.g. ZZ:50291; ZZ:50292)	<p>A list of interchange qualifiers and identifiers to be allowed for this trading partner.</p> <p>Normally, only interchanges with the qualifier and identifier specified in the Default Interchange Qualifier - ID field are allowed for a trading partner. When a trading partner uses multiple interchange qualifiers and IDs, the additional qualifiers and IDs to be allowed can be specified in this field.</p> <p>To specify the allowable list of identities, follow the syntax below: <i>Qualifier:ID[:Qualifier:ID]</i></p>

Table 15 Partner General Fields (Sheet 4 of 8)

Field	Description
Partner Level Security Option (MIME Encode Messages Only)	<p>Select what kind of messages you expect from this partner for this particular transaction set from among the following options:</p> <ul style="list-style-type: none"> • None • Plain Text Only • Signed Only • Encrypted Only • Signed And Encrypted <p>For example, if you expect only signed messages for this particular transaction set from a partner, but the partner, or someone posing as the partner, sends this particular transaction set in a plain text message, TIBCO BusinessConnect rejects the message.</p> <p>If a message is rejected, it is logged as an ERROR transaction and an error advisory is published. The rejected message is not published to the Responder private process.</p> <p>The security level affects acknowledgment creation: if a message is rejected, it is not processed for conversion and validation.</p>
Enable Interchange Complete Message	Selecting this option causes the TIBCO BusinessConnect engine to send a RVCN or JMS Queue message to the private process after the interchange processing is completed.
Enable Audit Report Logging	When checked, enables audit report logging for the complete inbound interchanges.
Publish Information to Insight Reporting	If enabled, this option will publish a report on the "Messages received from the trading partner" (both synchronous and asynchronous).

Table 15 Partner General Fields (Sheet 5 of 8)

Field	Description
Inbound EDI Data Encoding	<p>Specify the type of encoding for inbound EDI data.</p> <ul style="list-style-type: none"> • If inbound EDI data contains the BOM header, such as UTF-8 and UTF-16 encoding, TIBCO BusinessConnect EDI Protocol powered by Instream gets the encoding from the BOM header regardless of what value you set in this field. • If inbound EDI data does not contain the BOM header, such as ISO-8859-1 and US-ASCII encoding, TIBCO BusinessConnect EDI Protocol powered by Instream checks whether the value in this field is set. <ul style="list-style-type: none"> — If you set a value in this field, TIBCO BusinessConnect EDI Protocol powered by Instream uses the specified encoding type to process inbound EDI data. — If no value is set in this field, TIBCO BusinessConnect EDI Protocol powered by Instream uses the system encoding of the TIBCO BusinessConnect Interior Server engine to process inbound EDI data.
Outbound	
Enable EDI Validation	<p>Default is unchecked (disabled).</p> <p>Validates outbound EDI documents before TIBCO BusinessConnect converts and forwards them to the trading partner. Guidelines configured in the configuration store are used to validate outbound EDI data.</p> <p>When this option is enabled, the following will happen:</p> <ul style="list-style-type: none"> • For the XML payload sent from private processes, both the transaction values and the envelope information are validated. • For EDI payload sent from private processes, the whole EDI document (with envelope) is validated.
Transaction Level Duplicate Detection	<p>Indicate how duplicate documents from private processes should be handled:</p> <ul style="list-style-type: none"> • None No outbound duplicate detection is performed. • Allow to TP If a duplicate document is sent, then the message is marked as duplicate and returned to the private process through an attribute in the InitiatorResponse message. The message is sent to the trading partner. • Deny to TP If a duplicate document is sent, then the message is marked as duplicate and returned to the private process through an attribute in the InitiatorResponse message. The message is not sent to the trading partner.

Table 15 Partner General Fields (Sheet 6 of 8)

Field	Description
Publish Information to Insight Reporting	If enabled, this option will publish a report on the "Messages sent to the trading partner" (synchronous response as well as regular non batch messages).
Outbound XML to EDI Data Encoding *	<div>Specify the type of encoding for outbound XML to EDI data.</div> <div>This field is required.</div> <div><ul style="list-style-type: none">The default value is US-ASCII.</div>

Table 15 Partner General Fields (Sheet 7 of 8)

Field	Description
Outbound EDI File Mask for EMAIL	<p>The mask that controls the outbound file renaming when the Email transport is used. The value entered in the field is used to formulate the name of the EDI file attached with the outbound mail. This file name is also used as the subject of the outbound Email.</p> <p>The file mask sample is as follows:</p> <pre>#(TxName)_#(ApplicationReference)_#(SenderID)_#(ReceiverID)_#(YYYY)#(MM)#(DD)_#(InterchangeCtrlNum).txt</pre> <p>Supported file mask options are listed, and they are case-sensitive.</p> <ul style="list-style-type: none"> • TxName EDIFACT transaction name. (UNH_02_01 DE0065) • SenderID ID of the Interchange sender. (UNB_02_01 DE0004) • SenderQual Identification code qualifier of the Interchange sender. (UNB_02_02 DE0007) • ReceiverID ID of the Interchange recipient. (UNB_03_01 DE0010) • ReceiverQual Identification code qualifier of the Interchange recipient. (UNB_03_02 DE0007) • InterchangeCtrlNum Interchange control number. (UNB_05 DE0020) • InterchangeVerNum Syntax version number. (UNB_01_02 DE0002) • ApplicationReference Application reference. (UNB_07 DE0026) • TpName Trading partner name • hostName Host name • DocID ID of the sent document • YYYY Year • MM Month using two digits • DD Day using two digits <p>Note: Select the Use Attachment Filename as Subject check box when you configure the Email transport.</p>

Table 15 Partner General Fields (Sheet 8 of 8)

Field	Description
Replace Element Value (e.g. E-7088=,; E-6032=,;)	<p>A list of translation specifications.</p> <p>Each specification causes the translation of an XML element value from one value to another. This replacement is done before the XML is converted to EDI.</p> <p>The replacement syntax is <i>from_value:to_value</i>.</p> <p>For example, if the XML has an element named E-5688 which is of type numeric, and you want to convert the decimal point from '.' (period) to ',' (comma), enter the value: E-5688=.,;</p> <p>This would convert all occurrences of E-5688's value for this partner from . (period) to , (comma) in the final converted EDI document.</p> <p>Add Click Add to add new translation specification to the list.</p> <p>Once you have added translation specifications to this list, you can also remove the unwanted ones by selecting them and clicking on Remove.</p>

- Click the **Logging** tab.

Logging Tab

Use the **Logging** tab to configure EDI-specific logging options available with TIBCO BusinessConnect EDI Protocol powered by Instream. For more information, see *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*, "Document Archiving."

Table 16 Logging Fields

Field	Description
Inbound Interchange Level	
Log Raw EDI Segments to File	Default is unchecked. Logs the original, intact, and unconverted inbound EDI documents. You can also check this option at the interchange level. An interchange consists of all segments between the UNB and UNE segments, inclusive.
Store Location	The original inbound EDI documents are stored in a directory whose name is derived from the specified location. For information on how the files are named, see <i>TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide</i> , "Document Archiving."
Transaction Level	
Log Raw EDI Segments to File	Default is unchecked. Logs the original, intact, and unconverted inbound EDI documents. You can also check this option at the transaction level. A transaction consists of all segments between the UNH and UNT segments, inclusive. Note: This setting, together with the value in the Store Location field and 'Include Envelope Segments' enables the EDI_TXN_FROM_TP Resend option in the Log Viewer.
Include Envelope Segments	Default is unchecked. For transaction-level logging, stores the interchange and functional group header and trailer segments along with the EDIFACT message.
Store Location	The original inbound EDI documents are stored in a directory whose name is derived from the specified location. For information on how the files are named, see <i>TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide</i> , "Document Archiving."

- Click the **Batching** tab.

Batching Tab

Use the **Batching** tab to set the transporting gateway.

Table 17 Batching Fields

Field	Description
Outbound	
Allow Single Transmission for Multiple Exclusively-batched Interchanges	<p>Default is unchecked.</p> <p>In the Operations Editor, if the Batch Option list for a transaction action is set to Exclusively, then the interchange containing this transaction can only contain this type of transaction. You can still put multiple interchanges, each containing a different type of transaction, into a single batch and send it to the trading partner.</p> <p>This feature and the feature “Increment Interchange Control Number by Operation ID for Exclusive Batch” are mutually exclusive.</p>
Increment Interchange Control Number by Operation ID for Exclusive Batch	<p>Default is unchecked.</p> <p>Select the check box to increment interchange control numbers based on transaction types in addition to partner ID qualifiers.</p> <p>This feature allows users to configure how to increment interchange control numbers based on a particular trading partner, as well as on the transaction type (such as BANSTA for a particular interchange/group version). It only applies to the case of the Exclusive batch, where an interchange can only contain one type of transaction, and also where multiple interchanges in a single transaction are not allowed.</p> <p>This feature and the feature “Allow Single Transmission for Multiple Exclusively-batched Interchanges” are mutually exclusive.</p>
Regenerate Control Number For Batch Resend	<p>This property is checked by default. When viewing this batch in the Gateway audit log:</p> <ul style="list-style-type: none">• If checked, a control number will be regenerated for all transactions in this batch when resent.• If unchecked, the already created control number will be used for all transactions in this batch when resent. <p>See <i>TIBCO BusinessConnect EDI Protocol powered by Instream, Gateway Configuration</i>, Regenerate Control Number For Batch Resend, to learn how to override this setting.</p>

Table 17 *Batching Fields (Cont'd)*

Field	Description
Publish Information to Insight Reporting for Batch	<p>Default is unchecked.</p> <p>If checked, this option will publish a report on the Messages that are batched and sent to the trading partner.</p>
Use Transporting Gateway	
Gateway (Override Scheduler and Transport Settings)	<p>A Gateway partner name to specify the Gateway transport for this trading partner.</p> <p>Using the same Gateway transport for multiple EDIFACT trading partners allows you to send outbound EDIFACT documents to just one URL and to set scheduling for multiple EDIFACT trading partners in one place. The batching functionality of the Gateway transport also allows transactions of multiple trading partners to be batched in a single document and send to the Gateway. In either scenario, the Gateway represents the commercial VANs where transactions are distributed to the target trading partners.</p> <p>For more information about using Gateway, see <i>TIBCO BusinessConnect EDI Protocol powered by Instream, Gateway Configuration</i>.</p>

- Click 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 18 Interchange Header Fields

Field	Description
Outbound	
Always Generate UNA Segment	<p>If checked, an UNA segment is always generated.</p> <p>If unchecked (default), the EDIFACT document is always sent without an UNA service segment and always use default delimiters..</p>
Syntax Identification	
UNB-S001/0001 Identifier*	<p>This is the required UN/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 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 18 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 EDIFACT Syntax 3 interchanges. The macro CCYYMMDD can be used for 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 acknowledgment 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 19 Group Header Fields

Field	Description
Outbound Functional Group Creation	
Transaction*	Required. <ul style="list-style-type: none">If True, all outbound EDIFACT documents will have the group envelope.If False, all outbound EDIFACT documents will not have the group envelope. To work correctly, these documents then must be defined under <code>EmptyGroup</code>. For example, if you want to send <code>ORDERS.xml</code> with no group, it should be defined as <code>1/EmptyGroup/ORDERS</code>.
Acknowledgement*	Required. <ul style="list-style-type: none">If True, outbound acknowledgments will have the group envelope. If inbound documents do not have the group envelope, all acknowledgments are sent with no group envelope and this setting has no effect on acknowledgment creation. For example, if a <code>BANSTA</code> document comes in with no functional group, the acknowledgment reply will also lack the functional group, regardless of the Functional Group Creation Acknowledgment setting.If False, all outbound EDIFACT messages will not be enclosed in a functional group envelope. In this case, the acknowledgment must be defined under the <code>EmptyGroup</code>, such as <code>1/EmptyGroup/CONTRL</code>.
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 Document Security Tab .
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 Document Security Tab .

Table 19 Group Header Fields (Cont'd)

Field	Description
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 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>
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 the **Acknowledgement** tab.

Acknowledgement Tab

Use the **Acknowledgement** tab to specify the settings to use in composing the acknowledgments for messages sent by this trading partner.

For more information on acknowledgments, see [Message Acknowledgment on page 7](#) and *TIBCO BusinessConnect EDI Protocol powered by Instream User’s Guide*, Chapter 5, Acknowledgments and Reconciliation

If you want to generate acknowledgments for inbound EDIFACT transactions, the guideline of inbound transactions must contain the DSR mark for UNB, UNG, and UNH segments.

- The DSR mark for UNB segments must be UNB.
- The DSR mark for UNG segments must be UNG.
- The DSR mark for UNH segments must be UNH1.

The following table lists the fields in the **Acknowledgement** tab:

Table 20 Acknowledgement Fields

Field	Description
Inbound	
Ack Creation Option	<p>Defines what acknowledgments are created for this partner by the host. If inbound documents do not have the group envelope, the acknowledgment returned will not contain the UCF segment group regardless of this setting.</p> <p>The possible acknowledgment creation options are:</p> <ul style="list-style-type: none">• None No acknowledgment is created.• Interchange, Group and Txn TIBCO BusinessConnect EDI Protocol powered by Instream will create a CONTRL acknowledgment that verifies the Interchange, group and message.• Interchange and Group TIBCO BusinessConnect EDI Protocol powered by Instream will create a CONTRL acknowledgment. The CONTRL acknowledgment is verified only for the interchange and group response.• Interchange Only TIBCO BusinessConnect EDI Protocol powered by Instream will create a CONTRL acknowledgment. The CONTRL acknowledgment is verified only for the interchange response.

Table 20 Acknowledgement Fields (Cont'd)

Field	Description
Ack on Errors Only	Default is unchecked. Sends acknowledgments to this trading partner only when validation errors occur in messages from this trading partner.
Ack File Mask	Specify the file name by using file masks for generated acknowledgment data. The default value is # (TpName)-# (DocID)-# (YYYYMMDDHHMISSNNN).ack.response.
Ack Header Creation Options	
UNH-S009/0052 Version Number	Overrides the UNH and the UNG segments. Used in the interchange header when acknowledgments are sent to this trading partner.
UNH-S009/0054 Release Number	Overrides the UNH and the UNG segments. Used in the interchange header when acknowledgments are sent to this trading partner.
UNH-S009/0051 Controlling Agency Code	Overrides the UNH and the UNG segments. Used in the interchange header when acknowledgments are sent to this trading partner.
UNH-S009/0057 Assigned Association Code	Overrides the UNH and the UNG segments. Used in the interchange header when acknowledgments are sent to this trading partner.
Outbound	
Ack Expected Option	<p>Defines which acknowledgments a host will expect from this trading partner.</p> <p>If outbound documents do not have the group envelope, the returned acknowledgment will not contain the UCF segment group regardless of this setting. The possible acknowledgment acceptance options are:</p> <ul style="list-style-type: none"> • None No acknowledgment is expected and the transaction is completed once sent to the participant. • Interchange, Group and Txn The host expects a CONTRL acknowledgment from this partner to have this outbound transaction reconciled and accepted. • Interchange and Group The host expects a CONTRL acknowledgment from this partner to have this outbound transaction reconciled and accepted. The CONTRL acknowledgment is verified only for the group and message response. • Interchange Only The host expects a CONTRL acknowledgment to have this transaction reconciled and accepted. The CONTRL acknowledgment is verified only for the interchange response.

- Click the **Control Numbers** tab.

Control Numbers Tab

Use the **Control Numbers** tab to specify settings which affect the validation or generation of control numbers for this trading partner. The inbound settings affect the validation of control numbers in documents received from this trading partner. The outbound settings affect the generation of control numbers to be included in documents sent to this trading partner.

For more information on control numbers, see *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*, "Control Number Management."

Table 21 Control Numbers Fields (Sheet 1 of 3)

Field	Description
Inbound	
Group Control Number Increment Across Interchanges	<p>Indicates whether to validate that group control numbers increment across interchanges.</p> <p>Selections are True and False.</p>
Interchange Control Number Sequence Check	<p>Specifies how interchange control numbers are validated across a sequence of transmissions. Selections are:</p> <ul style="list-style-type: none"> None No validation is performed. Incremental Successive interchange control numbers must increase by 1. Chronological Successive interchange control numbers must increase by ≥ 1.
Group Control Number Sequence Check	<p>Specifies how group control numbers are validated across a sequence of interchanges or transmissions. Selections are:</p> <ul style="list-style-type: none"> None No validation is performed. Incremental Successive group control numbers must increase by 1. Chronological Successive group control numbers must increase by ≥ 1. <p>If you select Incremental, you must avoid some possible problems. See <i>TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide</i>, "Senders and Receivers Falling out of Sync with Incremental Control Numbers."</p>

Table 21 Control Numbers Fields (Sheet 2 of 3)

Field	Description
Transaction Control Number Sequence Check	<p>Specifies how transaction control numbers are validated within a group or an interchange. Selections are:</p> <ul style="list-style-type: none"> • None No validation is performed. • Incremental Successive transaction control numbers must increase by 1. • Chronological Successive transaction control numbers must increase by \geq 1.
Reset on Save	<p>Default is unchecked. Forces recycling of control numbers on demand. This applies to control numbers for inbound and outbound.</p> <p>If checked, on inbound documents the resetting of the control numbers would reset the inbound trading partner control numbers, which are used in control number validation. As a result, the validation would start again based on the next incoming document from the trading partner.</p>
Outbound	
Increment Group Control Number Across Interchanges	<p>Indicates whether to increment group control numbers across interchanges.</p> <p>Select <code>True</code> (default) or <code>False</code>.</p>
Increment Transaction Control Number Sequentially Across Interchanges	<p>Default is <code>False</code>.</p> <p>When checked as <code>True</code>, the transaction control number can be generated as unique and sequentially for all outbound transactions.</p>
Interchange Control Number Seed	<p>The interchange control number starting point.</p> <p>Default is 0.</p>
Interchange Control Number End	<p>The interchange control number ending point. The next interchange after the ending point is numbered with the seed.</p>
Group Control Number Seed	<p>The group control number starting point.</p> <p>Default is 0.</p>
Transaction Control Number Seed	<p>The transaction control number starting point.</p> <p>Default is 0.</p>

Table 21 Control Numbers Fields (Sheet 3 of 3)

Field	Description
Reset on Save	<p>Default is unchecked.</p> <p>Forces recycling of control numbers on demand. This applies to control numbers for inbound and outbound.</p> <p>If checked, on outbound documents the resetting of the control numbers would force the outbound control numbers for a trading partner to start from the seeding value again before reaching the ending value. As a result, the control number of the next outbound document would be generated based on the seeding value.</p>

- Click the **Delimiters** tab.

Delimiters Tab

Use the **Delimiters** tab to specify the service characters to be used when composing EDIFACT documents to be sent to this trading partner.

Only when the **Always Generate UNA Segment** check box in the **Interchange Header** tab is selected, the delimiters in this tab take effect; if this check box is cleared, TIBCO BusinessConnect EDI Protocol powered by Instream always uses the default delimiters.

For information on the UNA segment, see [UNA Segment on page 6](#).



Only one character per delimiter can be used for the 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 22 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 be displayed 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.

Table 22 Delimiter Fields (Cont'd)

Field	Character	Description
Extra Segment Terminators (e.g. 0x0d, 0x0a)		<div>The additional characters of the segment terminator when the segment terminator consists of more than one character.</div> <div><ul style="list-style-type: none">The first character of the segment terminator is always specified in the UNA-060 Segment Terminator field.The additional segment terminator characters are specified in this field.</div>

- Click 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 to allow for document exchange between partners running TIBCO BusinessConnect EDI Protocol powered by Instream 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 EDI Protocol powered by Instream, User's Guide*, "Setting Up Trading Partner Transport via Inbox."

The steps required for configuring transports are essentially the same for all protocols. See the transports chapters in *TIBCO BusinessConnect Trading Partner Administration*.

For EDI-specific transport configuration, see *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide*, Chapter 6, "File Masks."

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 92](#)
- [Operation Bindings Tab, page 93](#)
- [Overriding Outbound Settings, page 94](#)
- [Document Security Tab, page 99](#)
- [Transports Tab, page 101](#)
- [Scheduled Transmission Tab, page 104](#)
- [Overriding Participant Settings, page 106](#)

Overview

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

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. Select the **EDIFACT** check box.
5. Click **OK**.
6. Click the **EDIFACT** agreement protocol binding link. To configure business agreement, use the following tabs:
 - [Operation Bindings Tab, page 93](#)
 - [Document Security Tab, page 99](#)
 - [Transports Tab on page 101](#)
 - [Scheduled Transmission Tab, page 104](#)
 - [Overriding Participant Settings, page 106](#)

Operation Bindings Tab

Use the **Operation Bindings** tab to configure the 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, perform the following steps:

1. Click **Add Operation Binding**.
2. Click the topmost + to expand the message tree.
3. Select the check box 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 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 94](#).
- **Action Settings** To override the action settings for a message, select the **Override Action Settings** check box. Options entered here override those chosen in [Outbound Action Tab, page 41](#).
- **Transports** To override the transports for a message, select the **Override Transports** check box. Options entered here override the settings chosen in [Transports Tab on page 101](#).
- **Document Security** To override the document security for a outbound message, select the **Override Document Security** check box. Options entered here override the settings chosen in [Document Security Tab, page 99](#).

Operation Settings Tab

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



When no guidelines are given for the operation binding with the Override Operation Settings enabled and with Allow all Operation check box selected, 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 overrides cannot take effect when the batch transmission is performed through a gateway.

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

- [General Option, page 95](#)
- [Guideline Option, page 96](#)
- [Schema Option, page 97](#)

General Option

The following options are available when overriding the settings:

Table 23 *Override Settings for a Transaction: General*

Field	Description
UNG-S006/0040 Application Sender ID/UNG-S007/0044 Application Recipient ID (e.g. Application Sen:Application Rec)	<p>Click Add to add a new Application Sender ID and Application Recipient ID. Once this ID is added, it shows in the list preceded by a check mark.</p> <p>Check the check mark and click Remove at any time to remove the ID.</p>
Inbound Raw EDI Segments	
Include in Private Process Request	<p>This check box is available to include raw EDI message in the private process (RESPONDER.REQUEST) for this operation.</p> <p>This check box is unselected by default.</p>
Include in Validation Error Advisory	<p>This check box is available to include raw EDI messages in the Validation Error advisory.</p> <p>This check box is selected by default.</p>
Extra Transaction Info	<p>This text field is used to send any information to the private process at the transaction level of RESPONDER.REQUEST message.</p> <p>It can also be included in RESPONDER.INTERCHANGE and ValidationAlert advisory.</p>
Security Option (MIME Encode Message Only)	<p>The Security Option is at the transaction level and would allow or deny only this transaction. If the incoming document contains multiple transaction sets, the transaction that does not match the security option will not be sent to the private process. This does not affect acknowledgment creation for the incoming EDIFACT document.</p> <p>The options are:</p> <ul style="list-style-type: none"> • None • Plain Text Only • Signed Only • Encrypted Only • Signed and Encrypted

Table 23 Override Settings for a Transaction: General

Field	Description
Outbound	
Generate UNA Segment	<p>Specify whether to generate a UNA segment at the transaction level in business agreements.</p> <ul style="list-style-type: none"> • Don't Override Whether TIBCO BusinessConnect EDI Protocol powered by Instream generates a UNA segment is determined by whether you select the Always Generate UNA Segment check box in the Interchange Header tab. • Yes TIBCO BusinessConnect EDI Protocol powered by Instream always generates a UNA segment for this transaction regardless of whether you select the Always Generate UNA Segment check box in the Interchange Header tab. • No TIBCO BusinessConnect EDI Protocol powered by Instream does not generate a UNA segment for this transaction regardless of whether you select the Always Generate UNA Segment check box in the Interchange Header tab.

Guideline Option

If Guideline is selected, you can change or remove Validation Guidelines and TEXT Translation Guidelines as explained in [Table 24](#).

Table 24 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. They are described in detail in Configuring Validation Profile (.apf) Files.</p>

Table 24 Override Settings for a Transaction: Guideline

Field	Description
Inbound Type of Translation	
Inbound EDIFACT Translation Type (e.g. EDI to XML or EDI to TEXT)	<p>From the list, select one of the following items:</p> <ul style="list-style-type: none"> • EDI to XML When EDI to XML is selected here, it allows EDI to XML translation; an appropriate translation map have to be uploaded so that the output is XML. • EDI to TEXT When EDI to TEXT is selected here, with proper TEXT guideline and appropriate translation map for mapping EDI to TEXT, the output will be translated to TEXT.
TEXT Translation Guideline	
Guideline File used for translating EDIFACT to TEXT (.sef or .std)	Click change to select a guideline file for translation EDIFACT to TEXT.

Schema Option

If Schema is selected, change or remove the Map file as explained in [Table 25](#).

Table 25 Override Settings for a Transaction: Schema

Field	Description
EDI to XML (or EDI to TEXT) Translation Map file (.map)	Click change to select the EDI to XML or EDI to TEXT 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 XML to EDI translation map files have an extension <code>_XE.map</code> .

Action Settings Tab

This configuration tab is available only for the Host:

- **Batching Option** To override outbound action settings, see [Table 8, Outbound Action: Batching Tab, page 42](#).
- **Acknowledgement Option** To override outbound action settings, see [Table 9, Outbound Action: Acknowledgement Tab, page 43](#).

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 90](#).
- **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 [Document Security Tab, page 99](#).
- **Outbound Doc Exchange** See [Document Security Tab, page 99](#)

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



If you are using a transporting Gateway with one or more EDIFACT trading partners, the document security settings in the transporting Gateway are used instead of the document security settings for any of those EDIFACT trading partners.

For more information about configuring the Gateway, see *TIBCO BusinessConnect EDI Protocol powered by Instream, Gateway Configuration*.

Table 26 Document Security Fields

Field	Description
Outbound Doc Exchange Signing Info Settings	
Signing Key	The key the host uses to sign a message 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, and SHA512.
PGP Signing Private Key	The PGP key the host uses to sign a message to identify itself to a partner.
PGP Hash Algorithm	The PGP algorithm used to create the digest to be used for digital signatures: SHA1 and RIPEMD160
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, AES-128, AES-192, AES-256.

Table 26 Document Security Fields (Cont'd)

Field	Description
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, BLOWFISH, CAST5, 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.
PGP Signing Verification Public Key	The host uses this PGP public key to authenticate a partner by verifying the digital signature of the partner.
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.
PGP Decryption Private Key	The host uses this PGP private key to decrypt the document.

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 27 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 EDI Protocol powered by Instream 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 27 Outbound Transports for the Host (Cont'd)

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 is displayed in this area depends on the transports that are selected in the **Transport Type** area of the **Public Process Configuration** tab. For further information, see the section on Deployment Configuration in the *TIBCO BusinessConnect Trading Partner Administration*.

Table 28 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>

Scheduled Transmission Tab

Use the **Scheduled Transmission** tab to specify when messages should be transmitted to this trading partner. The settings in this tab interact with the settings in the **Batching** tab in the Operations Editor.

See [Table 8, Outbound Action: Batching Tab, page 42](#).

By default, transactions are transmitted to your trading partners immediately after they are processed by TIBCO BusinessConnect EDI Protocol powered by Instream. Using the options in the **Scheduled Transmission** tab, transactions can be scheduled to be sent:

- Only during a specified time period
- Only on certain days of the week
- Only on certain dates

If you use this tab to control when messages are transmitted, you can use the Log Viewer to view, submit manually, and delete queued messages.

See *TIBCO BusinessConnect EDI Protocol powered by Instream*, User’s Guide, Chapter 7, "Viewing Logs."

Table 29 Scheduled Transmission Fields

Field	Description
Enable	Enable this configuration.
Mode of Transmission	The type of the transmission schedule: Everyday, Day of the Week, Specific Dates. The selection determines which of the other fields on the tab are used.
Start Time	Defines the start of the transmission window.
End Time	Defines the end of the transmission window.
Days of the Week	The days of the week that messages will be transmitted. Used when the mode is Day of the Week.

Table 29 Scheduled Transmission Fields (Cont'd)

Field	Description
Frequency	<p>How often to group transactions into a single interchange and send them to trading partner. The frequency you specify is applied to the scheduled transmission start time. The first set of transmissions will be at the scheduled transmission start time. Each subsequent set of transmissions will be at the start time plus the frequency interval specified. BusinessConnect continues sending transmissions at regular intervals based on the value in the Frequency field until the transmission window closes.</p> <p>For example, if the start time is 9:00 a.m. and the frequency is Every 30 mins, then the first set of transmissions will occur at 9:00 a.m., the next set of transmissions will occur at 9:30 a.m., and so on.</p> <p>If you use the Gateway (override scheduler and transport settings) field (see Batching Tab on page 76), the frequency setting in the Gateway General tab overrides any value in this field.</p>
Transaction Count Threshold	<p>Limit the number of transactions in an interchange.</p> <p>If scheduled transmissions are enabled, entering a number will cause the following to occur when the transmission window is open:</p> <ul style="list-style-type: none"> • If the number of transactions to be sent to this trading partner reaches the number specified in this field before the next transmission time is reached, all transactions up to the number specified will be grouped together into a single interchange and sent to the trading partner. • If the next transmission time is reached before the specified number of transactions are ready to be transmitted, the transactions that are ready will be grouped together into a single interchange and sent to the trading partner. <p>If you use the Gateway in the (override scheduler and transport settings) field (see Batching Tab on page 76), the Number of Transactions Reached setting in the Gateway General tab overrides any value in this field.</p>
Scheduled Dates	<p>When the mode is set to Specific Dates, use this list of dates to schedule when transmission will occur.</p> <p>Click Add to add a specific date.</p>

Overriding Participant Settings

Use the participant configuration tabs to override the general settings for a participant per agreement protocol binding.

Hide Advanced

To hide the participant configuration tabs and skip overriding the participant settings, click the **Hide Advanced** button.

Show Advanced

To use the participant configuration tabs, click the **Show Advanced** button.

Configuration GUI displays two tabs labeled *ParticipantA's* Configuration and *ParticipantB's* Configuration, where *ParticipantA* and *ParticipantB* are the participants in the business agreement for which you are overriding the settings.

Override General Setting

To override a general setting, perform the following steps:

1. Click the participant's configuration tab.
2. Select the **Override Settings** check box.
3. **Default Interchange Qualifier ID** Select an Interchange Qualifier ID from the dropdown list.



When the Default Interchange Qualifier is changed, no CSUPDATE advisory will be published.

Choices for the Host are fully explained in the [General Tab on page 57](#).

Choices for the Trading Partner are fully explained in [General Tab on page 67](#).

4. **AS2 Identifier** Select an AS2 Identifier from the dropdown list.

Choices for the Host are fully explained in the [General Tab on page 57](#).

Choices for the Trading Partner are fully explained in [General Tab on page 67](#)

5. Click **Save**.

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