

TIBCO BusinessConnect™ EDI Protocol powered by Instream®

TEXT Configuration

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Two-Second Advantage®

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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 TEXT 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>	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.
<i>TIBCO_HOME</i>	An installation environment consists of the following properties: <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>	<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 <code>C:\tibco\bc\version\protocols\tibedi</code> .
code font	Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example: Use <code>MyCommand</code> to start the foo process.
bold code font	Bold code font is used in the following ways: <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, <code>MyCommand</code> is enabled: <code>MyCommand [enable disable]</code>

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: <i>MyCommand PathName</i>.
Key combinations	<p>Key names separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	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 **Overview**

This chapter describes the TEXT protocol of TIBCO BusinessConnect EDI Protocol powered by Instream, and its use for Electronic Data Interchange (EDI).

Topics

- [Product Overview, page 2](#)
- [Initial Detection of the TEXT Process, page 3](#)
- [Support for File Conversion, page 5](#)

Product Overview

TIBCO BusinessConnect EDI Protocol powered by Instream provides support for *delimited* and *positional* files.

- **Delimited Files** These files are defined as files that contain a consistent delimiter all throughout the file, such as an Excel exported .csv file or a tab separated field value. Guidelines need to be designed based on the structure of the Delimited file.
- **Positional Files** These files are defined as files that have a defined position (or size) for each field in the file.

Initial Detection of the TEXT Process

TIBCO BusinessConnect EDI Protocol powered by Instream uses the file `FlatFileInitialDetector.csv`, present in the `EDI_HOME/config` directory, for initial detection of a TEXT file to associate certain characteristics with the guideline as well as with trading partner information defined in the BusinessConnect configuration.

The file `FlatFileInitialDetector.csv` provides general structural information for the incoming document; for example, it defines the key elements that are required, as well as optional elements such as `MessageGroup`, `MessageType`, `Sender` and `Receiver ID/Qualifiers` that are used to match the operation defined for the TEXT protocol, as well as for trading partner configuration. You will create a new entry in the file `FlatFileInitialDetector.csv` if there is a new definition associated with the TEXT guidelines and your TEXT document.

Each entry in the file `FlatFileInitialDetector.csv` is associated with a TEXT document by matching the key entry value and any other optional element values entered in the file `FlatFileInitialDetector.csv`. The runtime engine goes through the list of entries mentioned in the file `FlatFileInitialDetector.csv` and checks if any one of its entries matches the TEXT document. The matching entry from the file `FlatFileInitialDetector.csv` is then used to give information to the BusinessConnect engine about:

- The operation information, based on the `MessageGroup` and `MessageType` values
- Trading Partner information, based on `Sender/Receiver ID` and/or `Sender/Receiver Qualifier` present as part of the fields.

For more details about the file `FlatFileInitialDetector.csv` and its use, see [Chapter 7, Type Detection, on page 83](#).

TEXT Process Detection Runtime Sequence

The following sequence happens at runtime:

1. A proprietary TEXT file is received on a transport. This file is then sent to the Instream conversion engine, which will try to scan the file `FlatFileInitialDetector.csv`.
2. The Instream conversion engine compares the contents of the TEXT file with each entry in the file `FlatFileInitialDetector.csv` and tries to find a match.
3. **Checking the key value:** First it checks to see if the data file matches the key value defined in the file `FlatFileInitialDetector.csv`.
4. **Checking the optional values:** If the key value matches, the engine checks other optional field values if they exist, and matches against them.
 - If the entry is a match, then the engine enters an appropriate value for `MessageGroup` and `MessageType` to identify the operation of the TEXT document, and tries to see if

a value for Sender/Receiver ID and/or Sender/Receiver Qualifier is defined in any of the Field columns to match the trading partner identity.

- If there is no match, it will fail to get the MessageGroup and MessageType identification; identifying the operations would not be possible, and the right guidelines would not be matched.
- If MessageGroup and MessageType values are matched, but the Sender/Receiver ID/Qualifier values are not matched, then the BusinessConnect runtime engine would use the partner's or host's default ID/Qualifier to match and the validation would try to proceed.

5. **Checking the configuration fields:** The configuration fields are SenderId, SenderDomain, ReceiverId, ReceiverDomain, MessageType, and MessageGroup. If MessageGroup is not identified, it is assumed to be TEXT.

The configuration fields can be identified through the `FlatFileInitialDetector.csv` file.

6. **Checking the configuration validation:** The Preprocess process checks the configuration validation information against the Sender and Receiver configurations created in the repository using the TIBCO BusinessConnect console. Either the host or the trading partner could act as a sender or as a receiver.

For more information on configuring hosts and trading partners, see [Chapter 4, Setting Up Trading Hosts, on page 55](#), and [Chapter 5, Setting Up Trading Partners, on page 61](#).

Support for File Conversion

The TEXT protocol supports these conversions:

- TEXT to XML and XML to TEXT both for the delimited and positional files.
- Validation of X12 or 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 X12 or to EDIFACT protocol. To perform this conversion, the trading partner must enable both the TEXT and the X12 or 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"

- TEXT data can also be converted to X12 using the synchronous request response transactions.

Chapter 2

Tutorials — Getting Started

This chapter gives an overview of how to use TIBCO ActiveMatrix BusinessWorks with TIBCO BusinessConnect EDI Protocol powered by Instream.

In the tutorials you will configure trading partner information, configure a private process to communicate with TIBCO BusinessConnect EDI Protocol powered by Instream, and run the tutorials.

Topics

- [Overview, page 8](#)
- [Prerequisites, page 10](#)
- [Using EDI Guidelines, page 11](#)
- [TEXT_DATA Tutorial, page 14](#)
- [TEXT_to_EDI Tutorials, page 28](#)

Overview

In the three tutorials presented in this chapter, you will use ActiveMatrix BusinessWorks and TIBCO BusinessConnect EDI Protocol powered by Instream running on one machine to send a TEXT message to a trading partner.

The tutorial TEXT_DATA describes sending a TEXT message, while the TEXT_to_EDI describes sending a TEXT message that gets converted either in EDIFACT or in X12 format.

Normally the trading partner is represented by another BusinessConnect engine running on another machine. However, this tutorial is run on a single machine (Initiator) and when the TEXT is sent to the trading partner or converted to EDI, the transport properties are defined to store the request in a directory on the local file system.

The following sections describe how to set up and run the tutorials. The steps involved in setting up TIBCO BusinessConnect EDI Protocol powered by Instream to run the tutorials are the same steps that have been discussed in *TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide*, Chapter 2, "Managing EDI Guidelines" and Chapter 3, "Exchanging Documents".

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

TEXT_DATA Tutorial

When you run the tutorial, the following steps occur:

1. TIBCO Designer/TIBCO Business Studio reads an XML file which contains the data for TEXT.
2. TIBCO Designer/TIBCO Business Studio sends the XML file to TIBCO BusinessConnect EDI Protocol powered by Instream.
3. TIBCO BusinessConnect EDI Protocol powered by Instream translates the XML to TEXT based on the xsd, TEXT guideline and the translation maps provided in the Operation Editor and validates the message against the guideline for this operation.
4. FILE transport is used to simulate sending the interchange to the trading partner. By using FILE transport, the interchange is written to a file on the local file system when it is sent to the trading partner.

TEXT_to_EDI Tutorials

When you run these tutorials, the following steps occur:

1. TIBCO Designer/TIBCO Business Studio reads the sample TEXT file located in
 - *BC_HOME/protocols/tibedi/samples/sampleDocs/ Delimited_D99A_ORDERS.dat* (for EDIFACT)
 - *BC_HOME/protocols/tibedi/samples/sampleDocs/ Positional_4040_850.dat* (for X12)
2. Constructs a message containing the TEXT data and sends it to TIBCO BusinessConnect EDI Protocol powered by Instream.
3. Converts a TEXT message to the EDIFACT (or X12) format and sends it out via the EDIFACT (or X12) protocol.

The converted EDI data is sent by the EDIFACT (or X12) primary transport; the TEXT protocol's primary transport has no effect on this transaction.

TIBCO BusinessConnect EDI Protocol powered by Instream translates TEXT to EDI based on the TEXT .xsd, TEXT guidelines, and the TEXT translation maps provided in the Operations Editor. Then it validates TEXT data and EDI data converted from TEXT against the guideline for this operation.

Prerequisites

Before starting the tutorial, perform the following steps:

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
 - e. TIBCO BusinessConnect EDI Protocol powered by Instream
 - f. TIBCO Foresight EDISIM. Since TIBCO BusinessConnect EDI Protocol powered by Instream contains all guidelines needed by the tutorial, it is not necessary to use EDISIM to create and customize the guidelines. However, if you wish to view the contents of any of the guidelines used in the tutorial, you need to install TIBCO Foresight EDISIM.
 - g. Certain guidelines (.csx files) will have to be imported in order to work with the tutorials TEXT_DATA and TEXT_to_EDI. They are listed in [Load Guidelines, page 12](#).
2. If you are unfamiliar with the TEXT protocol, read [Chapter 1, 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 "Setting Up Trading Partners" in *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*.
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 name for the TEXT protocol is `POINBOUNDARV.std`.

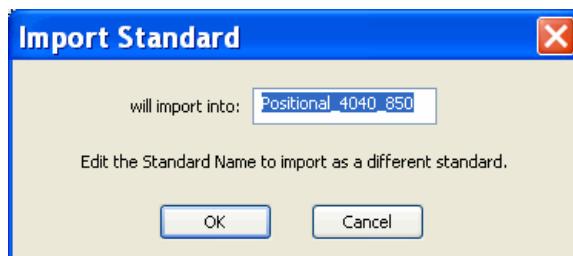
View a Guideline

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

To import a guideline:

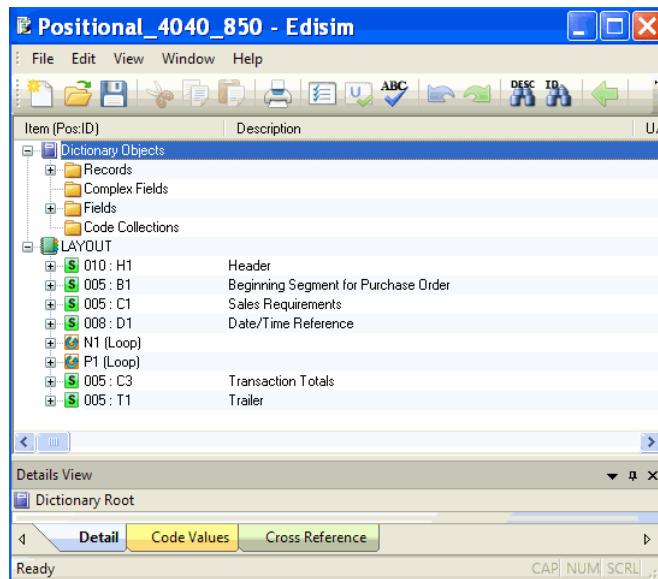
1. Select **EDISIM > Standards Editor**.
2. Select **File > Import > Import Single .SEF and Open**.
3. Go to `BC_HOME\protocols\tibedi\samples\sampleDocs\guidelines` and select the file `Positional_4040_850.sef`.
4. Click **Open**.
5. In the Import Standard dialog, keep or change the Standard name into which this guideline will be imported.

Figure 1 Import a Standard



6. For this tutorial, keep the standard name and click **OK**.
7. Click on the + signs on the left to display the guideline.

Figure 2 Elements of the TEXT Standard



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

Load Guidelines

This section describes how to load the guidelines and XSDs for the TEXT messages. TIBCO BusinessConnect EDI Protocol powered by Instream contains a sample configuration file for this tutorial. You will import the configuration file into the Operations Editor as follows:

1. Using TIBCO Administrator, select **BusinessConnect > Operations Editor**.
2. In the Operations Editor dialog, click **Import**.
3. Click **change**.
4. Click **Browse**.
5. Select `BC_HOME\protocols\tibedi\samples\interfaces`.
The files to import are:
 - TEXT.csx
 - X12_PO(TEXT_TO_EDI).csx
 - EDIFACT_ORDERS(TEXT_TO_EDI).csx
 - TEXT_PO(TEXT_TO_EDI).csx

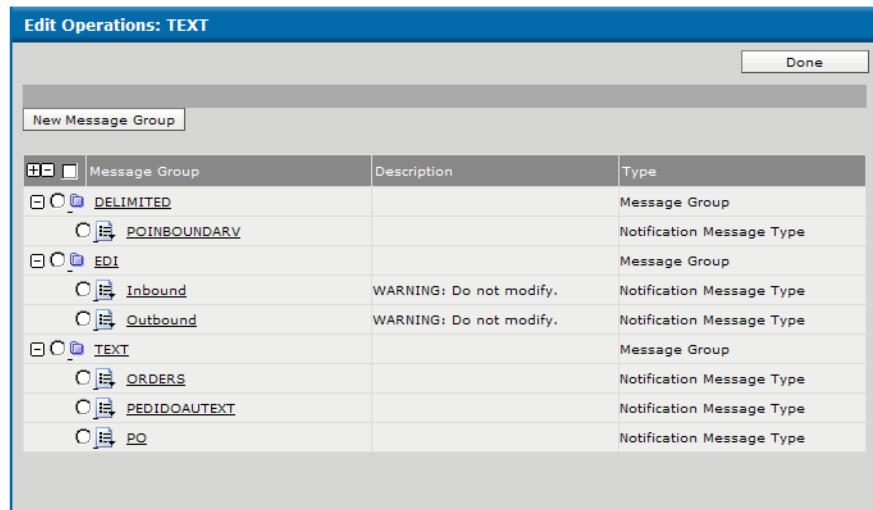
6. After selecting each of .csx files, click **Open**.
7. Click **OK**.
8. Supply your password (optional) and click **Import**.

Review the Guidelines

To review the guidelines:

1. In the Operations Editor, click the **TEXT** link.
2. Click on the topmost + (plus) sign on the left.

Figure 3 TEXT Operations



3. Click the transaction link, such as TEXT/PO.
4. Click the **Guideline** tab.

Notice that Positional_4040_850.sef is displayed in the Message Guideline (.sef or .std) field.

5. Click **Save and Done**.

TEXT_DATA Tutorial

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

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

To proceed with the tutorial, perform the following steps:

- [Load Guidelines, page 12](#)
- [Set Up a Host for TEXT Protocol, page 14](#)
- [Set Up a Partner for the TEXT Protocol, page 16](#)
- [Configure the Business Agreement for the TEXT Protocol, page 17](#)
- [Set Up the Initiator Server for the TEXT_DATA Tutorial, page 18](#)
- [Configuring the Private Process for the TEXT_DATA Tutorial, page 18](#)

Set Up a Host for TEXT Protocol

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

1. [Start Creating a New Host, page 14](#)
2. [Set the Domain Identity for the Host, page 15](#)
3. [Activate the Host](#)

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** from the **Type** list.
5. Click **OK**.
6. Click **Apply**.

Enable the TEXT 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 all other protocols except for TEXT.
 - b. Click **Disable**.

If protocols have not been enabled:

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

Set the Domain Identity for the Host

1. Click the **TEXT** link.
2. In the Edit Enabled Protocol dialog, click the **Add New** link next to the **Default Domain Identity** field.
3. In the Domain Identity List dialog, click the **Add New** button.
4. From the **Domain** list, select **01**.
5. In the **Identity** field, type a name, such as **123456789**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Domain Identity, select **01-123456789**.
9. Click **Save**.

Activate the Host

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

Verify that the host, Company 1, has the Domain Identity you defined in the step [Set the Domain Identity for the Host: \(01\)123456789](#).

2. Click on the **Company1** link.
3. In 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/ID is provided

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

Set Up a Partner for the TEXT Protocol

The trading partner setup consists of the following steps:

- [Create a Partner, page 16](#)
- [Enable the TEXT Protocol, page 16](#)
- [Set the Domain Identity, page 17](#)
- [Set the Transport, page 17](#)

Create a Partner

If you already have set up a Responder trading partner Company2, continue to the section [Enable the TEXT Protocol](#).

To set up the Responder 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** from the **Type** list.
5. Click **OK**.
6. Select the **Active** check box.
7. Click **Save**. The new partner Company2 appears on the Participants list, with no identity defined.

Enable the TEXT Protocol

1. Click the link **Company2**.
2. Click the **Protocols** tab.
3. Click **Enable**.
4. Select the **TEXT** check box.

5. Click **OK**.

Set the Domain Identity

1. Click the **TEXT** link.
2. Click the **Add New** link next to the **Default Domain Identity** field.
3. Click the **Add New** button.
4. From the **Domain** list, select 01.
5. In the **Identity** field, type **987654321**.
6. Click **Save**.
7. Click **OK**.
8. From the **Default Domain Identity** list, select 01-987654321.
9. Click **Save**.

Set the Transport

To set the transport:

1. Click the **TEXT** 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 TIBCO BusinessConnect console are HTML user interface text components. As with any HTML user interface text component, the backslash (\) is treated as an escape character.

7. Click **Save** three times.

Configure the Business Agreement for the TEXT Protocol

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 **TEXT** check box.
7. Click **OK**.
8. Click the **TEXT** link.
9. Click the **Transports** tab.
10. Make sure that **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 **TEXT** appears.

Set Up the Initiator Server for the **TEXT_DATA** Tutorial

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

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

Configuring the Private Process for the **TEXT_DATA** Tutorial

This section describes how to configure private processes in the following ways:

- [Configuring Private Processes in TIBCO Designer, page 18](#)
- [Configuring Private Processes in TIBCO Business Studio, page 21](#)

Configuring Private Processes in TIBCO Designer

To configure private processes in TIBCO Designer:

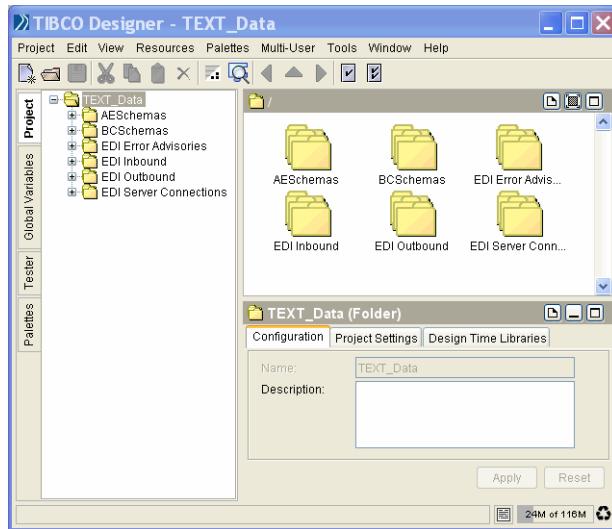
1. [Opening the TIBCO ActiveMatrix BusinessWorks Project, page 19](#)
2. [Configuring Connection to BusinessConnect, page 20](#)

Opening the TIBCO ActiveMatrix BusinessWorks Project

To open one of the sample projects:

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\TEXT_Data*.
6. Select **Text_Data.zip** and click **Open**.
7. Click **OK**.
The Import - Options dialog appears.
8. In the Options tab, select the **Try rename in case of name conflict** radio button.
9. Click **Apply**.
10. Select **Project > Save As**.
11. In the Project Directory file chooser, navigate to
BC_HOME\protocols\tibedi\samples\bw\TEXT_Data.
12. Click **OK**.
13. When a dialog appears asking to use the directory as a project directory, click **Yes**. The zip archive file is deleted.
14. The window shown in [Figure 4](#) is displayed.

Figure 4 Text_DATA project



15. Click the **Global Variables** tab.
16. Set **BCHome** to your TIBCO BusinessConnect installation directory.
17. If you made any changes, save the project but do not exit TIBCO Designer.

Configuring Connection to BusinessConnect

To configure connections to BusinessConnect, perform the following steps:

1. In TIBCO Designer, click the **Project** tab.
2. Expand the **Text_Data** folder.
3. In the EDI Server Connections folder, double-click **BCServerConfigTEXT**.
4. Click 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 the **Apply** button.
5. Click the **Configuration** tab.

6. Click the **Update from Configuration Store** button. If you chose TIBCO Rendezvous as the transport for private communication, the software displays a TIBCO Rendezvous tab.
7. Select **TEXT** from the **Protocol Name** list.
8. Click the **Import Selected Business Protocol** button.
ActiveMatrix BusinessWorks retrieves schema information from the BusinessConnect configuration store and puts it in the project folder.
9. Click **Apply** and **Save**.

Configuring Private Processes in TIBCO Business Studio

To configure a private process in TIBCO Business Studio:

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

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/TEXT_Data` directory, and select the `Text_Data_for_bw6.zip` file. Click **Open**.
5. Click **Finish**.

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

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

Configuring Connections to TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect:

1. In the Project Explorer view, expand **Resources** and double-click **BCServerConfigTEXT.bcResource**.

2. Click the **Server Access** tab.
3. Enter information as explained in [step 4](#).
4. Click the **Configuration** tab, and click **Update from Configuration Store**.
5. Select **TEXT** 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**.

Run the TEXT_DATA Tutorial

To run the tutorial, follow the following steps:

1. [Set the Input Data, page 22](#)
2. [Send Outbound EDI-TEXT Message, page 23](#).
3. Check the results of sending the message. See [Expected Results on page 25](#) and [Viewing the Audit Log on page 25](#).



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.

Set the Input Data

1. Expand the **TEXT_Data > EDI Outbound** folder.
2. Select the process inside the folder and press the F12 key.
3. Type the following input data:

BCHOME: **BC_HOME** (such as `C:\tibco\bc\x.x`)

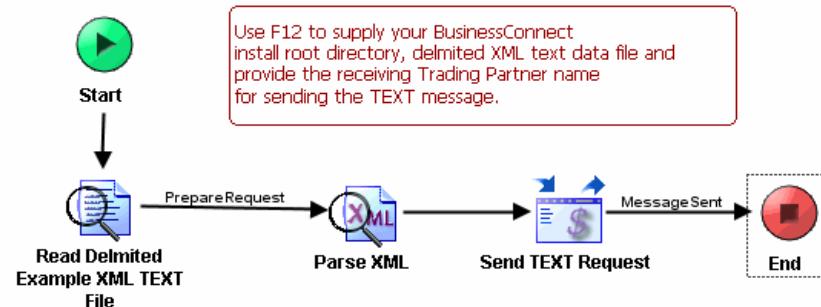
DataFile: **POINBOUNDARV.xml**

TPName: **Company2**
4. Click **OK**.

Send Outbound EDI-TEXT Message

The Send EDI-TEXT Message process is shown in [Figure 5](#).

Figure 5 Send EDI-TEXT Message



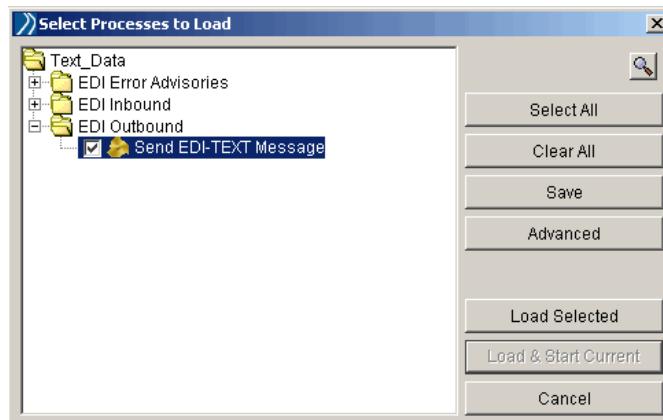
This process performs the following operations:

1. Reads a file containing data for TEXT.
2. Constructs a message containing the data and sends it to TIBCO BusinessConnect EDI Protocol powered by Instream.

To run the process:

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

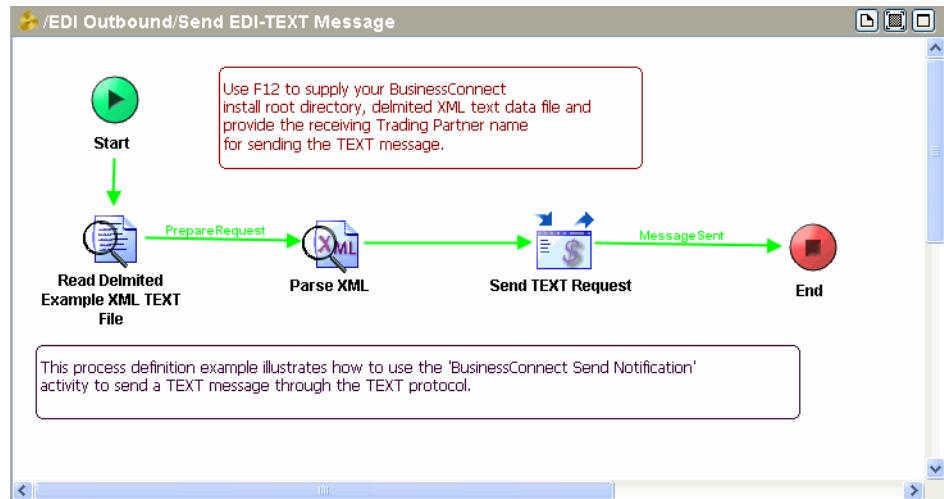
Figure 6 Select Process to Load



3. Select the check box next to **Send EDI-TEXT Message** in the EDI Outbound folder.
4. Click **Load Selected**.
5. Select the **Send TEXT Message** process in the Jobs list.
6. Click on the green Job icon  to start the job.

If everything was configured and run properly, you will get the result shown in [Figure 7, TEXT Transaction, Read from a File](#).

Figure 7 TEXT Transaction, Read from a File



Expected Results

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

1. The TEXT data is bundled into an interchange for sending to the trading partner.
2. The TEXT message 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 TEXT Request activity of the Send TEXT Message process should contain output that indicates the TEXT was successfully sent to the trading partner.
- The directory `c:\testEDI\out` should contain a file which contains the 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 [Viewing the Audit Log](#).

Viewing 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 **TEXT** link in the right panel.
3. Select items from the following lists: **Status**, **Connection**, and **Date Range**.
4. Click **Search**.

Figure 8 Search Audit Logs for TEXT

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

Figure 9 Transaction Details

Transaction Details

Filters > Status : ANY > Sep-02-2014 11:16 ~ Sep-03-2014 11:16

Summary : 1 of 1

Gateway Instance Information

- Operation ID DELIMITED/POINBOUNDARV
- Document ID -In_2iXbFCLdaSk1PWwSKf0akCf-

Trading Partner Company2

- Domain 01
- Identity 987654321
- User Key
- Host Initiates true

States [change view](#)

Time Stamp	Status	State	Description	Transmission ID	Transmission Time	Charge
Sep-03-2014 11:05:31 AM	PENDING	RECEIVED_FROM_PP	Received message from Private Process. This message can be resent.			
Sep-03-2014 11:05:31 AM	PENDING	REQUEST_FROM_PP	Received request EDI message from private process.			
Sep-03-2014 11:05:31 AM	PENDING	TXN_CONVERSION_COMPLETE	Request converted successfully.			
Sep-03-2014 11:05:31 AM	PENDING	REQUEST_TO_TP	Document sent to Trading Partner via file:///C:/testEDI/out/Company2/- -In_2iXbFCLdaSk1PWwSKf0akCf-.request		Wed Sep 03 11:06:36 CST 2014 (actual)	
Sep-03-2014 11:05:31 AM	COMPLETED	RESPONSE_TO_PP	EDI Document has been sent to the Trading Partner successfully.			

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

Figure 10 RECEIVED_FROM_PP

Transaction Details

Filters > Status : ANY > Sep-02-2014 11:16 ~ Sep-03-2014 11:16

Summary : 1 of 1

Gateway Instance Information

- Operation ID DELIMITED/POINBOUNDARV
- Document ID -In_2iXbFCLdaSk1PWwSKf0akCf-

Trading Partner Company2

- Domain 01
- Identity 987654321
- User Key
- Host Initiates true

State : 1 of 5 [change view](#)

Time Stamp	Sep-03-2014 11:05:31 AM
Status	PENDING
State	RECEIVED_FROM_PP
Description	Received message from Private Process. This message can be resent.

[Resend](#) [Save Message \[5028 bytes\]](#) [Back](#) [Next](#)

TEXT_to_EDI Tutorials

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, this tutorial is run on a single (Initiator) machine and when the Delimited_D99A_ORDERS (or Positional_4040_850) transaction is sent to the trading partner, the transport properties are defined to store the request in a directory on the local file system.

To proceed with the tutorial, perform the following steps:

- [Load Guidelines, page 12](#)
- [Set Up a Host for TEXT Protocol, page 14](#)
- [Set Up a Host for the EDIFACT \(or X12\) Protocol, page 28](#)
- [Set Up a Partner for the TEXT Protocol, page 16](#)
- [Set Up a Partner for the EDIFACT \(or X12\) Protocol, page 29](#)
- [Configure the Business Agreement for the TEXT_to_EDI Tutorial, page 29](#)
- [Set Up the Initiator Server for the TEXT_to_EDI Tutorial, page 30](#)
- [Configuring Private Processes for the TEXT_to_EDI Tutorial, page 30](#)

Set Up a Host for the EDIFACT (or X12) Protocol

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

For the EDIFACT Protocol:

See *TIBCO BusinessConnect EDI Protocol powered by Instream EDIFACT Configuration*, "Set Up a Host for the EDIFACT Protocol."

For the X12 Protocol:

See *TIBCO BusinessConnect EDI Protocol powered by Instream X12 Configuration*, "Setting Up a Host."

Set Up a Partner for the EDIFACT (or X12) Protocol

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

For the EDIFACT Protocol:

See *TIBCO BusinessConnect EDI Protocol powered by Instream EDIFACT Configuration*, "Set Up a Partner."

For the X12 Protocol:

See *TIBCO BusinessConnect EDI Protocol powered by Instream X12 Configuration*, "Setting Up a Partner."

Configure the Business Agreement for the TEXT_to_EDI Tutorial

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 **TEXT** and **EDIFACT (or X12)** check box.
7. Click **OK**.
8. While converting TEXT to EDI, the TEXT protocol primary transport does not take effect. Only the primary transport on the EDIFACT or X12 protocol side has to be set up.

Click the **EDIFACT or X12** link, and then the **Transports** tab to set up the transport.

9. Make sure that **FILE** is selected from the **Primary Transport** list in the **Outbound Transports for Host 'Company1'** area.
10. Click **Save** twice.

The new agreement between Company1 and Company2 with the enabled protocol TEXT and EDIFAXCT (or X12) appears.

Set Up the Initiator Server for the TEXT_to_EDI Tutorial

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

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

Configuring Private Processes for the TEXT_to_EDI Tutorial

This section describes how to configure private processes in the following ways:

- [Configuring Private Processes in TIBCO Designer, page 30](#)
- [Configuring Private Processes in TIBCO Business Studio, page 32](#)

Configuring Private Processes in TIBCO Designer

1. [Opening the TIBCO ActiveMatrix BusinessWorks Project, page 30](#)
2. [Configuring Connection to BusinessConnect, page 31](#)

Opening the TIBCO ActiveMatrix BusinessWorks Project

To open the sample project:

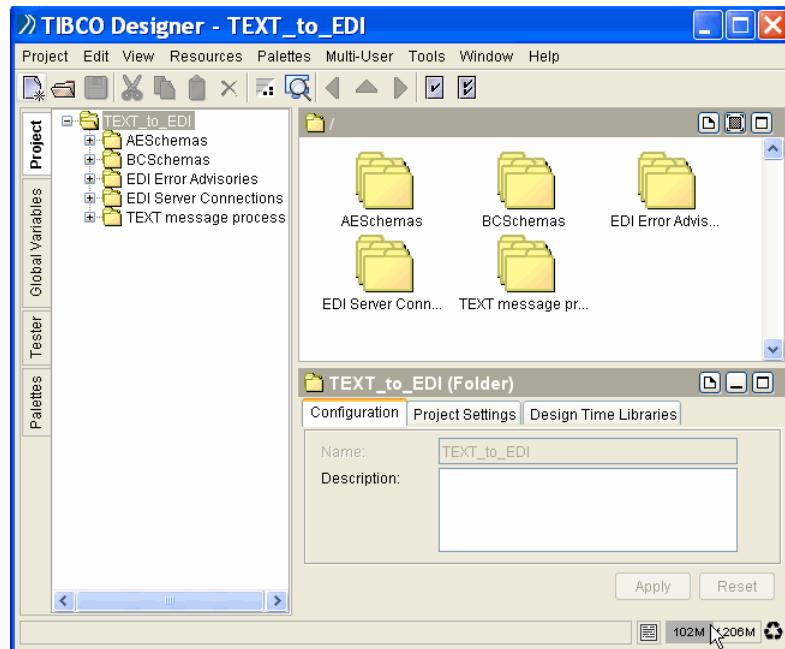
1. Start TIBCO Designer and select **New empty project**.
2. In the Save Project dialog, click **Cancel**.
3. Select **Project > Import Full Project**.
4. Click the **ZIP Archive** tab.
5. Navigate to *BC_HOME\protocols\tibedi\samples\bw\TEXT_Data*.
6. Select **TEXT_to_EDI.zip** and click **Open**.
7.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

The Import - Options dialog appears.

8. In the Options tab, select the **Try rename in case of name conflict** radio button.
9. Click **Apply**.
10. Select **Project > Save As**.
11. In the Project Directory file chooser, navigate to
BC_HOME\protocols\tibedi\samples\bw\TEXT_Data\TEXT_to_EDI.
12. Click **OK**.

13. When a dialog appears asking to use the directory as a project directory, click **Yes**. The zip archive file is deleted.
14. The window shown in [Figure 11](#) is displayed.

Figure 11 TEXT_to_EDI Project



15. If you made any changes, save the project but do not exit TIBCO Designer.

Configuring Connection to BusinessConnect

To configure connections to BusinessConnect, perform the following steps:

1. In TIBCO Designer, click the **Project** tab.
2. Expand the **TEXT_to_EDI** folder.
3. In the EDI Server Connections folder, double-click **BCServerConfigTEXT**.

4. Click the **BusinessConnect Server Access** tab.
 - a. Select the JDBC driver you use to communicate with the BusinessConnect configuration store from the **JDBC Driver** 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 the **Apply** button.
5. Click the **Configuration** tab.
6. Click the **Update from Configuration Store** button. If you chose TIBCO Rendezvous as the transport for private communication, the software displays a TIBCO Rendezvous tab.
7. Select **TEXT** from the **Protocol Name** list.
8. Click the **Import Selected Business Protocol** button.
ActiveMatrix BusinessWorks retrieves schema information from the BusinessConnect configuration store and puts it in the project folder.
9. Click **Apply**.
10. 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 32](#)
2. [Configuring Connections to TIBCO BusinessConnect, page 33](#)

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/TEXT_Data* directory, and select the *TEXT_to_EDI_for_bw6.zip* file. Click **Open**.
5. Click **Finish**.

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

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

Configuring Connections to TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect:

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

Run the TEXT_to_EDI Tutorials

To run the tutorials, follow the following steps:

1. [Set the Input Data, page 34](#)
2. [Send TEXT Message \(convert to EDIFACT\), page 35](#)
3. [Send TEXT Message \(convert to X12\) on page 40](#)



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.

Set the Input Data

1. Expand the **TEXT_to_EDI > TEXT message process** folder.

2. Select one of the processes inside the folder:
 - Send TEXT message (convert to EDIFACT)
 - Send TEXT message (convert to X12)and press the F12 key.
3. Type the following input data:

BCHOME: *BC_HOME* (such as C:\tibco\bc\x.X)

TPName: **Company2**
4. Click **OK**.

Send TEXT Message (convert to EDIFACT)

The Send TEXT Message (convert to EDIFACT) process is shown in [Figure 12](#).

Figure 12 Send TEXT Message (convert to EDIFACT)



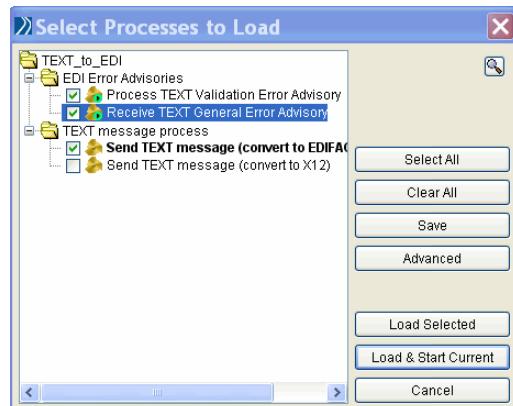
This process performs the following operations:

1. Reads the sample TEXT file located in `BC_HOME/protocols/tibedi/samples/sampleDocs/Delimited_D99A_ORDERS.dat`
2. Constructs a message containing the TEXT data and sends it to TIBCO BusinessConnect EDI Protocol powered by Instream.

To run the process:

1. Click the **Tester** tab.
2. Click **Start testing viewed process** .
3. Select the process to load, in this case **Send TEXT Message (convert to EDIFACT)**. Select also both Error Advisories.

Figure 13 Select Process to Load



4. Click **Load & Start Current**.

Expected Results

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

1. TIBCO BusinessConnect EDI Protocol powered by Instream converts the TEXT data into EDIFACT data.
2. The converted EDIFACT message is written to a file on the local file system to simulate sending the interchange to the trading partner.

What You Can Observe

- The TEXT Request activity of the Send TEXT Message process should contain output that indicates the TEXT was converted to EDI.
- The directory c:\testEDI\out must contain a file which contains converted EDIFACT data that was sent to the trading partner by TIBCO BusinessConnect EDI Protocol powered by Instream
- The audit log should contain entries both in TEXT and EDIFACT protocols.

After 24 hours, TIBCO BusinessConnect EDI Protocol powered by Instream will send an acknowledgment 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..



In the **Input** tab of the Send Request activity, certain fields cannot take effect for TEXT_to_EDI conversion: transactionID, encoding, perMessage, txnGroupingID, destinationFileName, and controlNumInfo.

Viewing the Audit Log

The audit log for this transaction will have two parts:

- First part for the TEXT protocol and it shows TEXT data being converted to EDIFACT data.
- Second part is for the EDIFACT protocol and it shows the converted EDIFACT data being validated and sent to the trading partner.

Audit Log for TEXT

To view the TEXT 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 **TEXT** link in the right panel.
3. Select items from the following lists: **Status**, **Connection**, and **Date Range**.
4. Click **Search**.

Figure 14 Audit Log: TEXT

Date Group	Time Stamp (CDT)	Operation ID	Document ID	Trading Partner	Domain	Identity	User Key	Host Initiates
THIS HOUR	Sep-03-2014 01:03:30 PM	EDI/Outbound	kb-Fi0SCSNk4k1PX3SKf0akCf-	Company2	NA	NA		true

5. Click the **Details** icon  in the Search Results area for a specific operation to view details of the transaction, such as EDI/Outbound to check whether TEXT date has been successfully convert to EDIFACT.

Figure 15 Transaction Details: TEXT_to_EDI

Transaction Details

Filters > Status : ANY > Sep-03-2014 13:00 ~ Sep-03-2014 13:05

Summary : 1 of 1

Gateway Instance Information
Operation ID EDI/Outbound
Document ID kb-Fii0SCSNk4k1PX3SKf0akCf-
Trading Partner Company2
Domain NA
Identity NA
User Key
Host Initiates true

States

Time Stamp	Status	State	Description	Transmission ID	Transmission Time	Charge
Sep-03-2014 01:03:30 PM	PENDING	RECEIVED_FROM_PP	Received message from Private Process. This message can be resent.			
Sep-03-2014 01:03:30 PM	PENDING	TEXT_TO_EDI_CONVERT	TEXT data converted to EDIFACT successfully.			
Sep-03-2014 01:03:30 PM	COMPLETED	RESPONSE_TO_PP	Request has been converted to EDIFACT data for operation ID 3/D99A/ORDERS. Converted EDI data sent to EDIFACT protocol for processing.			

6. Since the TEXT to EDIFACT transfer occurred successfully, we can further check the details.

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

Figure 16 Transaction Details

Transaction Details

Filters > Status : ANY > Sep-03-2014 13:00 ~ Sep-03-2014 13:05

Summary : 1 of 1

Gateway Instance Information
Operation ID EDI/Outbound
Document ID kb-Fii0SCSNk4k1PX3SKf0akCf-
Trading Partner Company2
Domain NA
Identity NA
User Key
Host Initiates true

State : 2 of 3

Time Stamp	Sep-03-2014 01:03:30 PM
Status	PENDING
State	TEXT_TO_EDI_CONVERT
Description	TEXT data converted to EDIFACT successfully.

Audit Log for EDIFACT

To view the EDIFACT audit log, 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 17 Audit Log for EDIFACT

The screenshot shows the 'Audit Logs : EDIFACT > Connection : bc-db' interface. The 'Filters' section includes dropdowns for Status (ANY), Connection (bc-db), and Date Range (Custom, from September 3, 2014, to September 3, 2014). The 'Summary Results' table has columns for Date Group, Time Stamp (CDT), Operation ID, Document ID, Trading Partner, Interchange Q/lfr, Interchange ID, User Key, Int Control Number, Group Control Number, Txn Control Number, and Initiated by Host. One row is shown: Sep-03-2014 01:03:31 PM, 3/D99A/ORDERS, kb-F10SCSNk4k1PX3Skf0akCf-, Company2, 1, 987654321, 25, 25, 1, true.

5. Click the **Details** icon  in the Search Results area for a specific operation to view details of the transaction, such as 3/D99A/ORDERS.

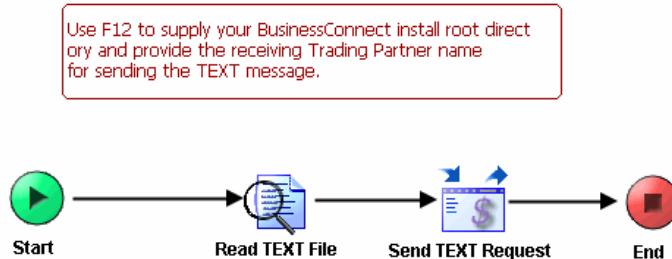
Figure 18 Transaction Details: EDI Document sent to the Trading Partner

The screenshot shows the 'Transaction Details' interface with a summary of 1 operation. The 'Gateway Instance Information' table includes columns for Operation ID (3/D99A/ORDERS), Document ID (kb-F10SCSNk4k1PX3Skf0akCf-), Trading Partner (Company2), Interchange Q/lfr (1), Interchange ID (987654321), User Key, Int Control Number (25), Group Control Number (25), Txn Control Number (1), and Initiated by Host (true). The 'States' table shows a history of events: Sep-03-2014 01:03:30 PM (ACK_PENDING, TXN_VALIDATION_COMPLETE, request converted successfully), Sep-03-2014 01:03:31 PM (ACK_PENDING, REQUEST_TO_TP, Document sent to Trading Partner via file:///c:/temp/Company2-kb-F10SCSNk4k1PX3Skf0akCf-request), and Sep-03-2014 01:03:31 PM (ACK_PENDING, RESPONSE_TO_PP, EDI Document has been sent to the Trading Partner successfully).

Send TEXT Message (convert to X12)

The Send TEXT Message (convert to X12) process is shown in [Figure 19](#).

Figure 19 Send TEXT Message (convert to X12)



This process performs the following operations:

1. Reads the sample TEXT file located in `BC_HOME//protocols/tibedi/samples/sampleDocs/Positional_4040_850.dat`
2. Constructs a message containing the TEXT data and sends it to TIBCO BusinessConnect EDI Protocol powered by Instream.

To run the process:

1. Click the **Tester** tab.
2. Click **Start testing viewed process** .
3. Select the process to load, in this case Send TEXT Message (convert to X12). Select also both Error Advisories.
4. Click **Load & Start Current**.

Expected Results

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

1. TIBCO BusinessConnect EDI Protocol powered by Instream converts the TEXT data into X12 data.
2. The converted X12 message is written to a file on the local file system to simulate sending the interchange to the trading partner.

What you Can Observe

- The TEXT Request activity of the Send TEXT Message process contains output that indicates the TEXT was converted to EDI.

- The directory c:\testEDI\out should contain a file which contains converted X12 data that was sent to the trading partner by TIBCO BusinessConnect EDI Protocol powered by Instream.
- The audit log should contain entries both in TEXT and X12 protocols.

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.



In the Input tab of the Send Request activity, certain fields cannot take effect for TEXT_to_EDI conversion: transactionID, encoding, perMessage, txnGroupingID, destinationFileName, and controlNumInfo.

Viewing the Audit Log

The audit log for this transaction will have two parts:

- First part for the TEXT protocol and it shows TEXT data being converted to X12 data.
- Second part is for the X12 protocol and it shows the converted X12 data being validated and sent to the private process.

Audit Log for TEXT

To view the TEXT 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 **TEXT** link in the right panel.
3. Select items from the following lists: **Status**, **Connection**, and **Date Range**.
4. Click **Search**.

Figure 20 Audit Log: TEXT

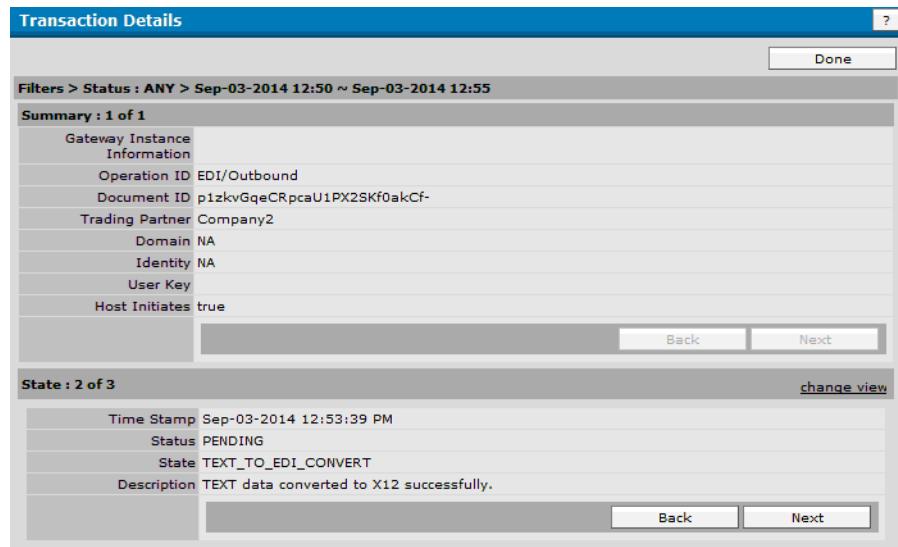
5. Click the **Details** icon  in the Search Results area for a specific operation to view details of the transaction, such as EDI/Outbound to check whether TEXT date has been successfully convert to X12.

Figure 21 Transaction Details: TEXT_to_EDI

Time Stamp	Status	State	Description	Transmission ID	Transmission Time	Charge
Sep-03-2014 12:53:38 PM	PENDING	RECEIVED_FROM_PP	Received message from Private Process. This message can be resent.			
Sep-03-2014 12:53:39 PM	PENDING	TEXT_TO_EDI_CONVERT	TEXT data converted to X12 successfully.			
Sep-03-2014 12:53:39 PM	COMPLETED	RESPONSE_TO_PP	Request has been converted to X12 data for operation ID 00403/00404/850. Converted EDI data sent to X12 protocol for processing.			

6. Since the TEXT to X12 transfer was successful, check the details. Click on the icon  next to the specific transaction to see more details.

Figure 22 Transaction Details



Audit Log for X12

To view the X12 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 **X12** link in the right panel.
3. Select items from the following lists: **Status**, **Connection**, and **Date Range**.
4. Click **Search**.

Figure 23 Audit Log for XI2

The screenshot shows the 'Audit Logs : XI2 > Connection : bc-db' interface. The 'Filters' section includes fields for Status (ANY), Connection (bc-db), Date Range (Custom, Start: September 3, 2014, 12:50, End: September 3, 2014, 12:55), and Advanced options. The 'Summary Results' table has columns for Time Stamp (CDT), Operation ID, Document ID, Trading Partner, Interchange QfR, Interchange ID, User Key, Int Control Number, Group Control Number, Txn Control Number, and Initiated by Host. A single row is shown: Sep-03-2014 12:53:39 PM, 00403/004040/850, p1zkyGqeCRpcaU1PX2SKf0akCf-Company2, 01, 987654321, 000000132, 132, 0001, true.

- Click the **Details** icon  in the Search Results area for a specific operation to view details of the transaction, such as 00403/004040/850.

Figure 24 Transaction Details: EDI Document sent to the Trading Partner

The screenshot shows the 'Transaction Details' interface. The 'Filters > Status : ANY > Sep-03-2014 12:50 ~ Sep-03-2014 12:55' section. The 'Summary 1 of 1' section displays 'Gateway Instance Information' with fields: Operation ID 00403/004040/850, Document ID p1zkyGqeCRpcaU1PX2SKf0akCf-, Trading Partner Company2, Interchange QfR 01, Interchange ID 987654321, User Key, Int Control Number 000000132, Group Control Number 132, Txn Control Number 0001, and Initiated by Host true. The 'States' section shows a table of transaction states:

Time Stamp	Status	State	Description	Transmission ID	Transmission Time
Sep-03-2014 12:53:39 PM	ACK	PENDING	TXN_VALIDATION_COMPLETE Request converted successfully.		
Sep-03-2014 12:53:39 PM	ACK	PENDING	Document sent to Trading Partner via file:///c:/testEDI/Out/Company2-p1zkyGqeCRpcaU1PX2SKf0akCf-request	p1zkyGqeCRpcaU1PX2SKf0akCf-	Wed Sep 03 12:54:45 CST 2014 (actual)
Sep-03-2014 12:53:39 PM	ACK	PENDING	EDI Document has been sent to the Trading Partner successfully.		

Chapter 3 **Managing TEXT Messages**

This chapter describes how to manage TEXT messages.

Topics

- [Overview, page 46](#)
- [Adding a Message Group, page 47](#)
- [Adding a Message Type to a Message Group, page 48](#)
- [Importing a Message Group, page 53](#)
- [Exporting Message Groups and Types, page 54](#)

Overview

TIBCO BusinessConnect EDI Protocol powered by Instream TEXT Protocol uses message groups to categorize text messages. Each message defines an action and its related communication parameters. For example, the definition of an message would include the following:

- The message's description and type (notify in TIBCO BusinessConnect EDI Protocol powered by Instream).
- The guidelines used by the message.

You later use the message groups when you set up communications with your trading partners.

Adding a Message Group

Before you can create new message types, you must create a message group. To add a message group, perform the following steps:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Click on the **TEXT** link.
3. Click **New Message Group**.
4. Enter a new message group name.
5. Enter a description (optional).
6. Click **Save**.

Adding a Message Type to a Message Group

To add a message type to a message group, perform the following steps:

1. Click the radio button next to a message group.
2. Click **New Message Type**.

The **Operation Type** list is displayed with **Notification** selected. The Type selection cannot be modified because only Notification transactions are supported.

Synchronous request-response transactions are not supported by the TEXT protocol.

3. Click **OK**.

You can configure the new message type with the following tabs:

- [Notification Message Type, page 48](#)
- [Outbound Action, page 51](#)
- [Inbound Action, page 52](#)

Notification Message Type

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

- [General Tab, page 48](#)
- [Guideline Tab, page 49](#)
- [Schema Tab, page 51](#)

General Tab

This tab allows you to configure the message type format on inbound and the raw data included in the message:

Table 2 Notification Message: General Tab

Field	Description
Name	Name of the new message type
Description	Description of the new message type

Table 2 Notification Message: General Tab (Cont'd)

Field	Description
Inbound	
Message Type Format	<p>The message type format can be as follows:</p> <ul style="list-style-type: none"> • Delimited This format defines files that contain a consistent delimiter all throughout the file. • Positional This format defines files that have a defined position (or size) for each field in the file
Raw Data	
Include in Private Process Request	When checked, includes the raw document in the message to the private process.
Extra Message Type Info	Optional inbound routing information that the private process can use to route this kind of message.

Guideline Tab

This tab allows you to configure message guidelines and validator profiles. Click **change** to select the guideline file associated with this message type.

You can select the file type: File Reference or Uploaded File.

- For File Reference, enter the whole path including the file reference name.
- For Uploaded File, click **Browse** to select a configuration file from the local file system.

Table 3 Notification Message: Guideline Tab

Field	Description
Message Guideline (.sef or .std)	<p>This field shows the current message guideline. It allows you also to change/add or to remove the existing message guideline.</p> <p>Load a guideline file, such as Positional_4040_850.sef.</p>
Validator Profile file (.apf)	This field shows the current validator profile file (the default is no file). It allows you also to change/add or to remove the existing validator profile file.

Table 3 Notification Message: Guideline Tab (Cont'd)

Field	Description
Outbound Type of Translation	
Outbound TEXT to EDI Translation Type	<p>Select one outbound TEXT to EDI translation type from the list.</p> <ul style="list-style-type: none"> None Select when this type of translation is not used TEXT to EDI Select for the TEXT files to be converted to X12 or to EDIFACT protocol. To perform this conversion, the trading partner must enable both the TEXT and the X12 or EDIFACT protocol. <p>See also <i>TIBCO BusinessConnect EDI Protocol powered by Instream User's Guide</i>, "TEXT to EDI Conversion."</p>
Operation ID of EDI transaction (e.g. 00403/004040/850)	<p>Enter the Notify or a Synchronous Request Response ID.</p> <ul style="list-style-type: none"> For TEXT to EDIFACT conversion, only the Notify operation is supported. For TEXT to X12 conversion, both the Notify and Synchronous Request Response operations are supported. Therefore, both IDs are valid for this field. <p>If the Notify operation ID is used, the converted X12 data will be sent as a Notify transaction; if the Synchronous Request Response operation ID is used, the converted X12 data will be sent as a Synchronous Request Response transaction.</p> <p>Note For any request that is being sent from the private process to TIBCO BusinessConnect for TEXT documents, an appropriate OperationID must be specified instead of EDI/Outbound.</p>
EDI Translation Guideline	
Guideline File used for translating TEXT to EDI (.sef or .std)	Select a guideline file, such as X12_4040_850.sef.

Schema Tab

Message schemas are used to integrate TIBCO BusinessConnect EDI Protocol powered by Instream with back office systems. If the back office systems are implemented with TIBCO ActiveMatrix BusinessWorks, these message schemas can also be loaded into TIBCO Designer/TIBCO Business Studio at design-time to generate process definitions that send messages defined in TIBCO BusinessConnect EDI Protocol powered by Instream. This tab allows you to configure schemas and map files.

Click **change** to select the schema file associated with this message type. You can select the file type: File Reference or Uploaded File.

- For File Reference, enter the whole path including the file reference name.
- For Uploaded File, click **Browse** to select a configuration file from the local file system.

Table 4 Notification Message: Schema Tab

Field	Description
Message Schema (.xsd)	Load a message schema, such as Positional_4040_850.xsd.
Request Root Element Name	The fixed value T-LAYOUT is used since all TEXT guidelines use LAYOUT as the root element in EDISIM Standards Editor.
Message to XML translation Map file (.map)	Load a map file, such as Positional_4040_850_FX.map.
XML to Message translation Map file (.map)	Load a map file, such as Positional_4040_850_XF.map.
Outbound EDI Translation Map	
TEXT to EDI translation Map file (.map)	Load a map file, such as PO_Positional_X12_4040_850.map.

Outbound Action

Name the new message type for the outbound action. Direction: Initiator to Responder (preset).

Inbound Action

Name the new message type for the inbound action. Direction: Responder to Initiator (preset).

Importing a Message Group

To import message groups, perform the following steps:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Click **Import**.
3. Click **change**.
4. Click **Browse**.



TIBCO BusinessConnect EDI Protocol powered by Instream comes with a sample message group that can be imported into the TIBCO BusinessConnect configuration store:

BC_HOME\protocols\tibedi\samples\interfaces\TEXT.csx

5. Navigate to *BC_HOME\protocols\tibedi\samples\interfaces* and select one of the sample message groups for TEXT. Example: TEXT.csx.
6. Click **Open**.
7. Click **OK**.
8. Enter a password (optional).
9. Click **Import**.

Exporting Message Groups and Types

To export message group and types, perform the following steps:

1. Click the **BusinessConnect > Operations Editor** link in the left panel.
2. Select the **TEXT** link.
3. In the Edit Operations: TEXT dialog, click the topmost plus (+) sign to display all TEXT groups and types.
4. Click the radio button next to the group or type you wish to export.
5. Click **Export XXX** where *XXX* is **Group** or **Type**, depending on what you selected in step 4.
6. Set a password (optional), and click **Export Data**.
7. The Save As dialog displays with operations.csx as the suggested file name.
8. Click **Done**.

Chapter 4 **Setting Up Trading Hosts**

This chapter describes setting up trading hosts in TIBCO BusinessConnect EDI Protocol powered by Instream for the TEXT protocol.

Topics

- [Configuring the TEXT Protocol for a Host, page 56](#)
- [General Tab, page 57](#)
- [Logging Tab, page 58](#)
- [Advanced Tab, page 59](#)

Configuring the TEXT Protocol for a Host

To enable the TEXT 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 TEXT does not appear in the list of protocols:
 - a. Click **Enable**.
 - b. Select the **TEXT** check box.
 - c. Click **OK**.
5. Click the **TEXT** link.

The following configuration options are available:

- [General Tab, page 57](#).
- [Logging Tab, page 58](#).
- [Advanced Tab, page 59](#).

6. Click **Save**.

General Tab

Use the **General** tab to set host general properties for TEXT.

Table 5 Setting Up Host: General tab

Field	Description
Default Domain Identity	<p>The domain and ID to use for this trading host.</p> <ul style="list-style-type: none"> For outbound documents, the qualifier and ID are specified as the sender domain and ID. For inbound documents, the domain and ID are matched against this field's values to ensure that the inbound document was intended for this host. <p>See Adding a Default Domain Identity on page 57 to add or edit a transmission code and name.</p>
AS2 Identifier	An identifier to use in the AS2-To header field of the HTTP message. It should be mutually agreed upon between trading partners and can be an interchange ID. This only applies when using AS2 transport.
Valid Email Address List	The identifier to use in the From header field of the SMTP MIME message. This email address list can be a list of email addresses. For an outbound document sent to the trading partner through SMTP transport, the first email address is used in the From header. For incoming emails 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.

Adding a Default Domain Identity

To add a default domain identity:

- Click the **Add New** link.
- Click the **Add New** button.

Select a domain from the **Domain** list. For example, specify 01 for a D-U-N-S number. For outbound documents, the domain is not validated for the sender of a document.

- Enter the mandatory identity for the host in the **ID** field. This is mapped to the host's identity. For example, Interchange Sen is the fictitious D-U-N-S number used in the tutorial. For outbound documents, the identity is not validated for the sender of a document.
- Click **Save** and **OK**.

Logging Tab

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

Table 6 Setting Up Host: Logging Tab

Field	Description
Inbound	
Log Raw TEXT	Log the original, intact and unconverted EDI documents.
Request to File	
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."
Include Date Folder	Creates a file reference in a folder created based on the current date.
Outbound	
Log Raw TEXT	Log the original, intact and unconverted EDI documents.
Request to File	
Store Location	The original outbound 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."
Include Date Folder	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.

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 7 Setting Up Host: Advanced Tab

Field	Description
Inbound	
Publish XML Request as File Reference	Write the converted XML 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 <code>Threshold</code> property determines how large the XML must be before BusinessConnect writes the request to a file.
Threshold (bytes)	Specify a file size in bytes. Default is 0 . BusinessConnect writes XML 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	Default is checked. <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.
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.

Table 7 Setting Up Host: Advanced Tab (Cont'd)

Field	Description
Output XML Request in UTF-8 and Remove	Selecting this check box instructs BusinessConnect to perform these tasks: <ul style="list-style-type: none"> Convert the XML that is in UTF-16 format to UTF-8.
Empty Elements	<ul style="list-style-type: none"> 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>

Chapter 5

Setting Up Trading Partners

This chapter describes setting up trading partners for TEXT.

Topics

- [Configuring the TEXT Protocol for a Partner, page 62](#)
- [General Tab, page 63](#)
- [Logging Tab, page 65](#)
- [Delimiters Tab, page 66](#)
- [Transports Tab, page 68](#)

Configuring the TEXT Protocol for a Partner

To configure the TEXT 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 TEXT does not appear in the list of protocols:
 - a. Click **Enable**.
 - b. Select the **TEXT** check box.
 - c. Click **OK**.
5. Click the **TEXT** link. The following configuration options are available:
 - [General Tab, page 63](#)
 - [Logging Tab, page 65](#)
 - [Delimiters Tab, page 66](#)
 - [Transports Tab, page 68](#)

General Tab

To configure the **General** tab and set the partner general properties for TEXT use [Table 8](#).

Table 8 Setting Up a Partner: General Tab

Field	Description
Default Domain Identity	<p>The domain and ID to use for this trading partner.</p> <ul style="list-style-type: none"> For outbound documents, the domain and ID will be specified as the receiver domain and ID. For inbound documents, the sender domain and ID are used to identify the sender. <p>See Adding a Default Domain Identity on page 57 to add or edit a domain and ID.</p>
AS2 Identifier	An identifier to use in the AS2-To header field of the HTTP message. This identifier should be mutually agreed upon between trading partners. This identifier can be an interchange ID. This only applies when using AS2 transport.
Valid Email Address List	The email address that is used to match against 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 picked as the receiving party. This only applies when using AS1 or AS2 transport.
Inbound	
Enable Transaction Duplicate Detection	<p>Enable checking for duplicate transactions. Default is unchecked.</p> <p>When this check box is selected, all inbound transactions that are received from the trading partner are selected 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>TEXT has the following attributes: Trading Partner Name, operationID, transactionName, whole transaction, host initiates flag.</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.

Table 8 Setting Up a Partner: General Tab (Cont'd)

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	
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 will be 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.
Enable EDI Validation	<p>Default is unchecked.</p> <p>When checked, it will validate the outbound messages in TEXT format.</p>
Outbound XML to EDI Data Encoding *	<p>Specify the type of encoding for outbound XML to EDI data.</p> <p>This field is required.</p> <ul style="list-style-type: none"> The default value is US-ASCII.

Logging Tab

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

Table 9 Setting Up Partner: Logging Tab

Field	Description
Inbound	
Log Raw EDI Segments to File	Default is unchecked. Store each raw inbound TEXT document to the specified Store Location.
Store Location	The original inbound EDI documents are stored in a directory whose name is derived from the specified location.

Delimiters Tab

The **Delimiters** tab allows you to configure record and field delimiters for the EDI TEXT protocol.

The private process sends an XML document for the TEXT protocol in XML format corresponding to the XML schema that was generated from the guideline that defines the structure of the TEXT document. TIBCO BusinessConnect EDI Protocol powered by Instream protocol converts XML to TEXT before publishing the same to the trading partner.

The private process can use either the tpName or the qualifier/ID pairs in the perMessage/interchange/sender and perMessage/interchange/receiver message (both part of INITIATOR.REQUEST) to indicate the trading partner based on the delimiter settings that will be picked up.

The **controlNumInfo** parameter is completely ignored in the case of the TEXT protocol.



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

To configure the Delimiters tab, see [Table 10](#).

Table 10 Setting Up Partner: Delimiters Tab

Field	Description	
Outbound	When data is converted from XML to EDI, the delimiters listed under Outbound will be used.	
Wrap Data	Checked or unchecked	<p>This option is checked by default.</p> <p>When segments are converted to the TEXT data, they are formatted as follows:</p> <ul style="list-style-type: none"> • When checked, no additional LF/CRLF breaks will be added at the end of each segment. • When unchecked, each segment will be on a new line.
Delimited		
Segment Delimiter *	' (apostrophe)	Delimiting between segments
Element Delimiter *	,	Delimiting between elements

Table 10 Setting Up Partner: Delimiters Tab (Cont'd)

Field	Description	
Positional		
Record Delimiter *	,	Delimiting between records (apostrophe)
Inbound		When data is converted from TEXT to XML, the delimiters listed under Inbound will be used.
Delimited		
Segment Delimiter *	,	Delimiting between segments (apostrophe)
Element Delimiter *	,	Delimiting between elements (comma)
Positional		
Record Delimiter *	,	Delimiting between records (apostrophe)

Customizing Delimiter Settings for an Operation



If you are going to conduct a TEXT to EDIFACT transaction (that is, a transaction in which a flat .dat file containing the TEXT message is converted into the EDIFACT format), you must ensure that the delimiter used in the source .dat file containing the TEXT message is the same delimiter defined for the trading partner in the BusinessConnect Administrator GUI and in FlatFileInitialDetector.csv.

If you change a delimiter setting, you must modify the file FlatFileInitialDetector.csv, which is located in the folder *BC_HOME/protocols/tibedi/config*.

You also must add a new row in this .csv file after adding a new transaction in the Operations Editor. This is required in case you want to validate the TEXT document that is translated before sending it to the trading partner.

The Instream engine uses a set of criteria to identify or detect the entries in the file FlatFileInitialDetector.csv, as described in [Chapter 1, Overview](#) and [Chapter 7, Type Detection](#).

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:

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

Inbox option is available in order 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*, "Set Up Trading Partner Transport via Inbox."

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

For EDI-specific transport configuration, see *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 70](#)
- [Operation Bindings Tab, page 71](#)
- [Document Security Tab, page 74](#)
- [Transports Tab, page 76](#)
- [Scheduled Transmission Tab, page 79](#)
- [Overriding Participant Settings, page 81](#)

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 add an agreement protocol binding:

1. Click the **BusinessConnect > Business Agreements** link in the left panel.
2. Click a business agreement link in the right panel.
3. Click the **Add Protocol Bindings** button.
4. Check **TEXT**.
5. Click **OK**.
6. Click the **TEXT** agreement protocol binding link.

The following configuration options are available:

- [Operation Bindings Tab, page 71](#)
- [Document Security Tab, page 74](#)
- [Transports Tab, page 76](#)
- [Scheduled Transmission Tab, page 79](#)
- [Overriding Participant Settings, page 81](#)

Operation Bindings Tab

Use the **Operation Bindings** tab to configure the TEXT 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 Partner 'Y' Can Initiate area.
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.

Binding an Operation

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

To bind a transaction in either area, perform the following steps:

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

Editing an Operation Binding

To edit an operation binding, perform the following steps:

1. Click an operation binding link. The following options are available:
 - [Operation Settings Tab, page 72](#)
 - [Transports Tab, page 73](#)
2. Click **Save**.

Operation Settings Tab

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, to override the general settings for a TEXT message type
- Guideline, to override the guideline settings for a TEXT message type



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.

General Option

Overrides the same settings made in the Operations Editor.

See [General Tab on page 48](#).

Configurable options include the following:

Table 11 Configuring Business Agreement: General Option

Field	Description
Inbound Raw Data	
Include in Private Process Request	Default is unchecked. When checked, overrides the same settings made in the Operations Editor. See General Tab on page 48 .
Extra Message Type Info	Add information about the message type

Guideline Option

Changing the settings in this dialog overrides all the same settings made in the Operations Editor.

See [Guideline Tab on page 49](#).

Schema Option

Overrides the same settings made in the Operations Editor.

See [Schema Tab on page 51](#).

Configurable options include the following::

Table 12 Configuring Business Agreement: Schema Option

Field	Description
Message to XML translation Map file (.map)	If needed, change or remove the previously selected map file.
XML to Message translation Map file (.map)	If needed, change or remove the previously selected map file.
Outbound EDI Translation Map	
TEXT to EDI Translation Map file (.map)	If needed, change or remove the previously selected map file.

Transports Tab

This tab is used for overriding of outbound transport settings:

Table 13 Configuring Business Agreement: Transports Tab

Field	Description
Override Transports	When checked, overrides the transports set in participant's configuration.
Override Outbound Transports	
Primary Transport	Select the primary transport from the list. <ul style="list-style-type: none"> • Current transport (such as FILE, FTP, FTPS, AS2-HTTP, AS2-HTTPS, SSHFTP, or Inbox) • None
Backup Transport	Select the backup transport from the list. <ul style="list-style-type: none"> • Current transport (such as FILE, FTP, FTPS, AS2-HTTP, AS2-HTTPS, SSHFTP, or Inbox) • None

Document Security Tab

Use the **Document Security** tab to specify security information for trading partners. The keys and certificates selected in the tab are set in the host and partner participant's Credentials tabs. See *TIBCO BusinessConnect Trading Partner Administration* for information on how to set credentials.

The properties listed in [Table 14](#) can be set for inbound and outbound document exchange.

Table 14 Configuring Business Agreement: Document Security Tab

Field	Description
Outbound Doc Exchange	
Signing Info Settings	
Signing Key	The key the host uses to sign a message in order to identify itself to a partner. The partner uses the host's certificates file to authenticate the host by verifying the digital signature of the host.
Digest Algorithm	The algorithm used to create the digest. Selection are: SHA1, MD5, SHA256, SHA384, and SHA512.
PGP Signing Private Key	The PGP key the host uses to sign a message in order to identify itself to a partner.
PGP Hash Algorithm	The PGP algorithm used to create the digest to be used for digital signatures: MD5, SHA1, RIPEMD160, MD2
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: DES3, RC2-40, RC2-128, AES-128, AES-192, AES-256
PGP Encryption Public Key	The PGP public key the host uses to encrypt a document before sending it to the partner.
PGP Encryption Algorithm	The PGP algorithm used to encrypt documents: DES3, BLOWFISGH, CAST5, AES-128, AES-192, AES-256.
Inbound Doc Exchange	
Signing Info Settings	

Table 14 Configuring Business Agreement: Document Security Tab (Cont'd)

Field	Description
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

Use the **Transports** tab to set transport information for a transporting Gateway.

A transporting Gateway can be shared by multiple EDIFACT and X12 trading partners, while it is not supported for partners using the TEXT protocol.

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

See [Transports Tab, page 68](#).

Table 15 Outbound Transport for the Host

Field	Description
Primary Transport	<p>Outbound transport is supported only in the passthrough mode. That is, there is no validation available, and no conversion from TEXT to XML. Choose the primary transport from the list of transports previously configured in a trading partner's Protocols > Transports tab (Transports Tab on page 68): FTP, FILE, FTPS, AS2-HTTP, AS2-HTTPS, SSHFTP</p> <p>See the Transports chapters in the <i>TIBCO BusinessConnect Trading Partner Administration</i>.</p>
Backup Transport	<p>TIBCO BusinessConnect EDI Protocol powered by Instream supports a backup outbound transport for sending XML files to the trading partner. This backup transport is used if the file could not be sent via the primary transport configured in the business agreement. Such situation may happen if the trading partner's server is not available or has a wrong URL during the time the file is being sent: the file still needs to reach the server via some other means even after the primary transport retry was exhausted.</p> <p>Backup transports are configured at the business agreement level and can be one of the supported BusinessConnect transports. The same rules apply for choosing a backup transport as for a primary transport.</p>

Table 15 Outbound Transport for the Host (Cont'd)

Field	Description
AS2 Async MDN Reply Transport	<p>Same as for TIBCO BusinessConnect: select any of the configured transports. The settings from the specified AS2 MDN Async Reply Transport field are used for sending async MDN responses back to your trading partner. Configuring the AS2 MDN Async Reply Transport is not necessary unless you would like to specify different values for the following HTTP transmission related settings:</p> <ul style="list-style-type: none"> • Retry Count – default is 3 • Retry Interval – default is 60 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>Same as for TIBCO BusinessConnect.</p> <p>The Remote Server Certificate for the AS2 HTTPS transport is a SSL certificate that should be used for encrypting the data sent using HTTPS. This dropdown list contains all of the certificates that have been configured for the Trading Partner. You can select the one that was configured to be used for SSL encryption.</p> <p>Note The server certificate configuration is only required for Async MDNs via AS2 HTTPS transport.</p>
Client Authentication Identity for HTTPS, FTPS, HTTPSCA	Choose between the transport that was set up as Client Authentication Identity for HTTPS, FTPS, HTTPSCA, or None.
Client Authentication Identity for SSHFTP	Choose between the transport that was set up as Client Authentication Identity for SSHFTP, or None.

Setting the Inbound Transport

What displays 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 16 Inbound Transport Fields

Field	Description
HTTP/S	Allow HTTP/S connections from this partner directly or from a VAN. This also applies when the inbound connection is using the AS2 transport.
HTTPSCA/AS2	See <i>TIBCO BusinessConnect Trading Partner Administration</i> , Chapter 11, HTTP, HTTPS, and HTTPSCA Transports.
FTP/S	Allow the host to perform FTP/S connections with this partner. The host is the Initiator of the FTP process. Click Edit Settings to configure FTP/S. See <i>TIBCO BusinessConnect Trading Partner Administration Guide</i> for more information on how a host uses FTP.
FILE	Allow FILE connections from this partner. FILE is normally used for file exchange within an enterprise. If your partner uses FILE and a transporting Gateway to send EDI documents back to you through a VAN, you need to configure FTP transport. You must use FTP to get your partner's documents from the VAN Gateway site. This is because a VAN receives documents for multiple trading partners, but does not forward those documents to the recipients.
SSHFTP	See <i>TIBCO BusinessConnect Trading Partner Administration</i> , Chapter 15, SSHFTP Transport.

Scheduled Transmission Tab

Use the **Scheduled Transmission** tab to specify when transactions should be transmitted to this trading partner.

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 17 Configuring Business Agreement: Scheduled Transmission Tab

Field	Description
Enable	Default is unchecked.
Transmission Mode	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.
Frequency	The wait time between transmissions within the transmission window. BusinessConnect sends the first set of transmissions at the scheduled transmission start time and waits for the time specified in the Frequency field before sending the next set of transmissions. It continues sending transmissions at regular intervals based on the value in the Frequency field until the transmission window closes. For example, if the start time is 9 AM. and the frequency is Every 30 minutes, then the first transmission will occur at 9 AM., the next transmission will occur at 9:30 AM., and so forth. This is not used for batched transmissions.

Table 17 Configuring Business Agreement: Scheduled Transmission Tab (Cont'd)

Field	Description
Transaction Count Threshold	This value is always 1. TEXT transmissions can only be scheduled; they cannot be batched.
Scheduled Dates	List of dates when transmission occurs (if transmission mode is Specific Dates).

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.

The 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.

To override a general setting, perform the following steps:

1. Click a participant configuration tab.
2. Select the **Override Settings** check box.
3. The available settings are the same as those specified for the host in [General Tab on page 57](#), or the trading partner in [General Tab on page 63](#). Modify the desired setting.
4. Click **Save** twice.

Chapter 7

Type Detection

This chapter explains the criteria used by the Instream engine to identify or detect an entry in the file `FlatFileInitialDetector.csv`.

Topics

- [Identifying and Detecting Entries in `FlatFileInitialDetector.csv`, page 84](#)

Identifying and Detecting Entries in FlatFileInitialDetector.csv

The FlatFileInitialDetector.csv file is available in the directory `BC_HOME/protocols/tibedi/config`. It is used for TEXT data validation, which includes Flat file support for Delimited and Fixed length using the EDISIM Flat file guideline support.

Identification and initial detection of key fields and other fields is performed by the Instream engine using the file `FlatFileInitialDetector.csv` and is based on the set criteria. Delimiters configured in this file must be in hex format (such as `0x27`). The values described in the "Value Required" column are the values taken from the file `FlatFileInitialDetector.csv` to show the usage as an example.

Table 18 Identification and Initial Detection of Fields in the File `FlatFileInitialDetector.csv`

Column Name	Syntax	Value Required	Description
FileType	F<HeaderLength RecordDelimiter> D<ElementDelimiter SegmentDelimiter>	Yes	Fixed length files Delimited text files
Key	<StartPosition RecordLength Key Value> (Value must be specified)	Yes. For example, <1 2 Key S1> where S1 is the key value	For Fixed length files
	<FieldNumber Key Value> (Value must be specified)	Yes. For example, <1 Key POINBOUNDARV> where POINBOUNDARV is the key value.	For Delimited text files
messageGroup	This identifies the message Group defined in the Operations Editor for TEXT		
	<startpositon,record length MessageGroup>	Optional. For example, <16 4 MessageGroup TEXT> where TEXT is an optional value.	For Fixed length files
	<field number MessageGroup>	Optional. For example, <3 MessageGroup DELIMITED> DELIMITED is a value and is optional.	For Delimited text files

Table 18 Identification and Initial Detection of Fields in the File FlatFileInitialDetector.csv (Cont'd)

Column Name	Syntax	Value Required	Description
messageType	This identifies the message Type defined in the Operations Editor for TEXT		
	<startpositon,record length MessageType>	Optional. For example, <81 12 MessageType PEDIDOAUTEXT> where PEDIDOAUTEXT is an optional value.	For Fixed length files
	<field number MessageType>	Optional. For example, <7 MessageType POINBOUNDARV> where POINBOUNDARV is the value.	For Delimited text files
Field{n}	This can be any field defined in the header portion of the guideline, such as SenderId, SenderDomain, or ReceiverId, ReceiverDomain. See the FlatFileInitialDetector.csv for an example.		
	 <p>If MessageGroup, MessageType, SenderId, SenderDomain, ReceiverId, and ReceiverDomain are not contained in the TEXT data, you can set default values. If the value of start position or field number is -1, the following value is default value.</p> <p>For example:</p> <p>Fixed length file: <-1 0 MessageGroup TEXT></p> <p>Delimited text file: <-1 MessageGroup TEXT></p> <p>If spaces are included in the default values, use single quotation marks, such as 'ABC 123'.</p>		

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