

**TIBCO BusinessConnect™ EDI
Protocol HIPAA Edition
powered by Instream®**

Configuration

*Software Release 6.7
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Preface

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream allows you to use TIBCO BusinessConnect to engage in electronic commerce using the standards established for exchanging electronic health care transactions through the Health Insurance Portability and Accountability Act of 1996 (HIPAA, Title II).

Topics

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

Related Documentation

This section lists documentation resources you may find useful.

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream Documentation

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

- *TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream Installation* Read this manual for instructions on site preparation and installation.
- *TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream Configuration* Read this manual for instructions on how to configure TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
- *TIBCO BusinessConnect EDI Protocol HIPAA Edition 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 BusinessConnect™
- TIBCO Hawk®
- TIBCO BusinessConnect™ EDI Protocol powered by Instream
- TIBCO Administrator™
- TIBCO ActiveMatrix BusinessWorks™
- TIBCO Designer™
- TIBCO Business Studio™
- TIBCO BusinessConnect™ Palette
- TIBCO ActiveMatrix BusinessWorks™ Plug-in for BusinessConnect™
- TIBCO Rendezvous®
- TIBCO Foresight® EDISIM
- TIBCO Foresight® HIPAA Validator® Desktop




Typographical Conventions

The following typographical conventions are used in this manual.

Table 1 General Typographical Conventions

Convention	Use
<i>ENV_NAME</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>	
<i>TIBHIPAA_HOME</i>	
	<p>An installation environment consists of the following properties:</p> <ul style="list-style-type: none"> • Name Identifies the installation environment. This name is referenced in documentation as <i>ENV_NAME</i>. On Microsoft Windows, the name is appended to the name of Windows services created by the installer and is a component of the path to the product shortcut in the Windows Start > All Programs menu. • Path The folder into which the product is installed. This folder is referenced in documentation as <i>TIBCO_HOME</i>. <p>TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream installs into a directory within a <i>TIBCO_HOME</i>. This directory is referenced in documentation as <i>TIBHIPAA_HOME</i>. The default value of <i>TIBHIPAA_HOME</i> depends on the operating system. For example on Windows systems, the default value is</p> <p><code>C:\tibco\bc\version\protocols\tibedi\tibhipaa</code>.</p>
code font	<p>Code font identifies commands, code examples, filenames, pathnames, and output displayed in a command window. For example:</p> <p>Use <code>MyCommand</code> to start the foo process.</p>
bold code font	<p>Bold code font is used in the following ways:</p> <ul style="list-style-type: none"> • In procedures, to indicate what a user types. For example: Type admin. • In large code samples, to indicate the parts of the sample that are of particular interest. • In command syntax, to indicate the default parameter for a command. For example, if no parameter is specified, <code>MyCommand</code> is enabled: <p><code>MyCommand [enable disable]</code></p>

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 ActiveMatrix BusinessWorks Concepts</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: MyCommand <i>PathName</i>
Key combinations	<p>Key name separated by a plus sign indicate keys pressed simultaneously. For example: Ctrl+C.</p> <p>Key names separated by a comma and space indicate keys pressed one after the other. For example: Esc, Ctrl+Q.</p>
	<p>The note icon indicates information that is of special interest or importance, for example, an additional action required only in certain circumstances.</p>
	<p>The tip icon indicates an idea that could be useful, for example, a way to apply the information provided in the current section to achieve a specific result.</p>
	<p>The warning icon indicates the potential for a damaging situation, for example, data loss or corruption if certain steps are taken or not taken.</p>

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 HIPAA Edition powered by Instream is available on the <https://docs.tibco.com/products/tibco-businessconnect-edi-protocol-hipaa-edition-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](https://community.tibco.com). For a free registration, go to <https://community.tibco.com>.

Chapter 1

Introduction to HIPAA Protocol

This chapter briefly describes the HIPAA mandated X12 transactions and their use for electronic data interchange (EDI). For a more complete description of HIPAA and the mandated X12 transactions, refer to the HIPAA Educational Materials on the CMS website: <http://www.cms.hhs.gov/EducationMaterials>.

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

Topics

- [Overview, page 2](#)
- [HIPAA Architecture, page 5](#)
- [HIPAA Transactions Business Model, page 6](#)
- [HIPAA Types of Testing, page 7](#)
- [HIPAA Validation Error Severity, page 9](#)
- [De-identifying a File, page 16](#)
- [HIPAA External Code Lists, page 17](#)
- [User External Code Lists, page 20](#)

Overview

The **Health Insurance Portability and Accountability Act** of 1996, known as “HIPAA,” is a federal law that covers a number of important health care issues, such as providing consumers with greater access to health care insurance, and insuring the privacy of health care data. The law also includes measures designed to reduce administrative costs in the health care industry by providing standards for electronic transactions between the various entities within the industry, such as health care providers and insurers.

The Administrative Simplification portion of the law deals with electronic transactions and code sets requirements. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains additional functionality for TIBCO BusinessConnect EDI Protocol powered by Instream, which allows customers to be compliant with the electronic transactions and code sets requirements of the Administrative Simplification portion of HIPAA.

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream also provides for validation of National Provider Identifiers (NPI), which is another part of HIPAA’s Administrative Simplification.

Electronic Transactions

HIPAA transactions are activities involving the electronic transfer of health care information for specific purposes. Under HIPAA, if a health care provider engages in one of the identified transactions, they must comply with the standard for that transaction. HIPAA requires every provider who does business electronically to use the same health care transactions, code sets, and identifiers.

The electronic transaction standards for the healthcare industry are specified by the ASC X12N Subcommittee of The American National Standards Institute (ANSI) and the National Council for Prescription Drug Programs (NCPDP). The NCPDP standard formats are used by retail pharmacies for drug claim transactions.

The following is a list of the electronic transaction standards mandated by HIPAA:

- For claims or encounters:
 - ASC X12N 837 Institutional (versions 4010X096A1 and 5010X223A2)
 - ASC X12N 837 Dental (versions 4010X097A1 and 005010X224A2)
 - ASC X12N 837 Professional (versions 4010X098A1 and 005010X222A1)
- For Remittance Advice
 - ASC X12N 835 (versions 4010X091A1 and 005010X221A1)
 - ASC X12N 820 (versions 4010X061A1 and 005010X218)

- Eligibility Inquiry and Response
 - ASC X12N 270 (versions 4010X092A1 and 5010X279A1)
 - ASC X12N 271 (versions 4010X092A1 and 5010X279A1)
- Prior Authorization and Referral
 - ASC X12N 278 (versions 4010X094A1 and 005010X217)
- Claims Status Inquiry and Response
 - ASC X12N 276 (versions 4010X093A1 and 005010X212)
 - ASC X12N 277 (versions 4010X093A1 and 005010X212)
- Benefit Enrollment and Maintenance
 - ASC X12N 834 (versions 4010X095A1 and 005010X220A1)
- NCPDP retail pharmacy transactions (version 5.1 for telecommunications, version 1.1 for batch transactions)

Document Structure

HIPAA transactions are specialized versions of X12 transactions. As such, a HIPAA document has the same structure and uses the same delimiters as an X12 document. To understand the structure of an X12 document and the use of delimiters in an X12 document, see *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*, Chapter 1, "Document Structure and Delimiters."

Acknowledgements

The information in the section on Acknowledgements in *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration* also applies to HIPAA transactions.

Additionally, TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream supports application level acknowledgements that are used to provide the validation results on the HIPAA specific business rules for a transaction. For information on these application level acknowledgements that are specific to TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream, see [HIPAA Acknowledgement Properties on page 43](#).

Design Time Validation of HIPAA Transactions

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream is used for runtime validation of HIPAA electronic transactions. For design time validation of HIPAA electronic transactions, the product TIBCO Foresight HIPAA Validator Desktop is used.

To use the guidelines shipped with TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream with TIBCO Foresight HIPAA Validator Desktop, you need to copy the HIPAA guidelines from TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream into the appropriate directory for TIBCO Foresight HIPAA Validator Desktop.

For example, to do design time validation of a version 4010 837 Professional transaction do the following:

change directory to *BC_HOME*/protocols/tibedi/samples/sampleDocs/guidelines/4010_txns

copy PDSA837P.std to *FORESIGHT_HOME*/Desktop/Database

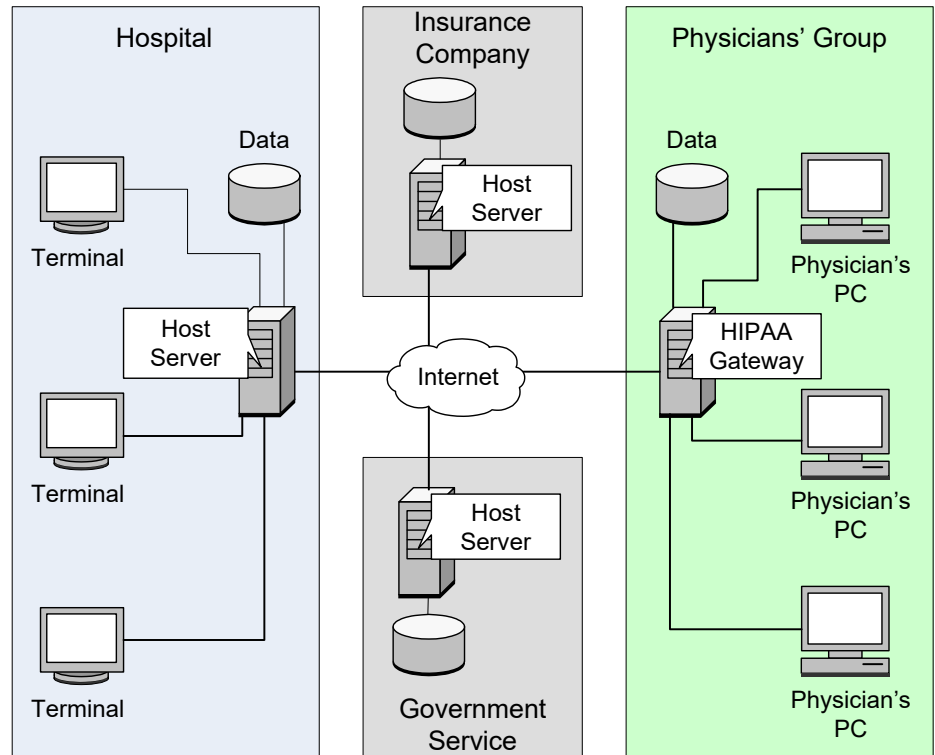
See the documentation that accompanies TIBCO Foresight HIPAA Validator Desktop for directions on how to use the product to perform validation.

To see a list of the guidelines for each HIPAA transaction, see [Chapter 2, HIPAA Transaction Configuration, on page 23](#).

HIPAA Architecture

The following shows the HIPAA architecture in which a variety of organizations exchange HIPAA X12 transactions.

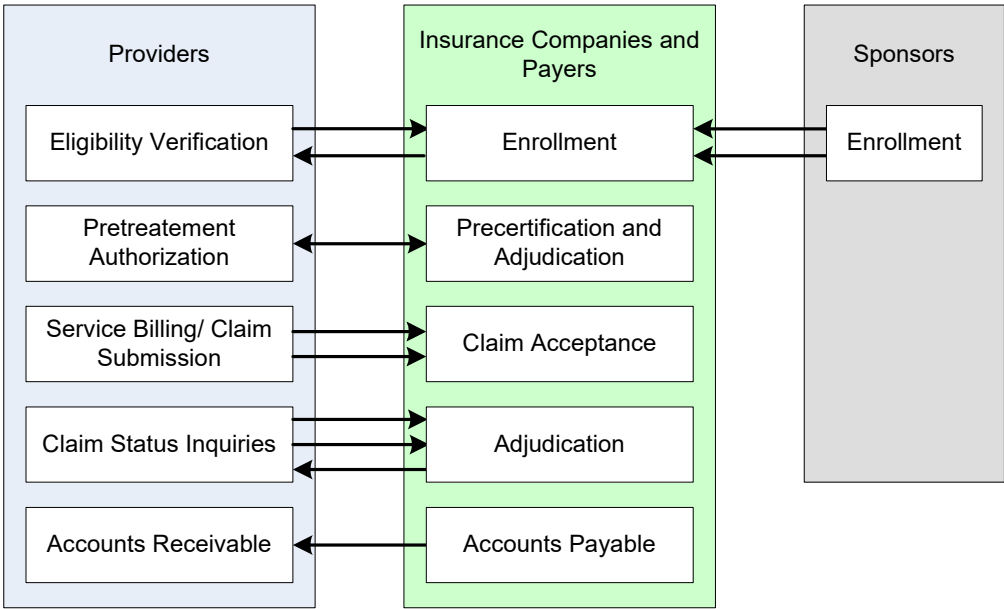
Figure 1 HIPAA Architecture



HIPAA Transactions Business Model

The following shows the HIPAA transactions business model.

Figure 2 HIPAA Transaction Business Model



HIPAA Types of Testing

There are seven types of testing recommended for HIPAA transactions. The seven types of testing are those defined in the Transaction Compliance and Certification white paper from WEDI-SNIP. The following information on testing types is from that white paper.

- **Type 1: EDI Syntax Integrity Testing** To test an EDI file for valid segments, segment order, element attributes, and numeric values in numeric data elements, validation of X12 syntax, and compliance with X12 rules.
- **Type 2: HIPAA Syntactical Requirement Testing** To test for HIPAA Implementation Guide-specific requirements, such as repeat counts, used and not used codes, elements and segments, required or intra-segment situational data elements. Testing for non-medical code sets as laid out in the implementation guide and values noted in the Implementation Guide through an X12 code list or table.
- **Type 3: Balancing** To test the transaction for balanced field totals, financial balancing of claims or remittance advice, and balancing of summary fields, if appropriate.
- **Type 4: Situation Testing** The testing of specific inter-segment situations described in the HIPAA Implementation Guides, such that If A occurs then B must be populated. This is considered to include the validation of situational fields given values or situations present elsewhere in the file. Example: if the claim is for an accident, the accident date must be present.
- **Type 5: External Code List Testing** To test for valid Implementation Guide-specific code list values and other code sets adopted as HIPAA standards. This level of testing not only validates the code sets but also makes sure that the usage is appropriate for any particular transaction and appropriate with the coding guidelines that apply to the specific code list. Validates external code sets and tables such as CPT, ICD9, CDT, NDC, status codes, adjustment reason codes, and their appropriate use for the transaction.
- **Type 6: Product Types or Line of Service Testing** This testing is required to ensure that the segments/records of data that differ based on certain healthcare services are properly created and processed into claims data formats. These specific requirements are described in the Implementation Guide for the different product types or lines of service.

For example: ambulance, chiropractic, podiatry, home health, parenteral and enteral nutrition, durable medical equipment, psychiatry, and other specialized services have specific requirements in the Implementation Guide that must be tested before putting the transaction in production. This type of testing only applies to a trading partner candidate that conducts transactions for the specific line of business or product type.

- **Type 7: Implementation Guide-Specific Trading Partners** The Implementation Guides contain some HIPAA requirements that are specific to Medicare, Medicaid, and Indian

Health. Compliance or testing with these payer specific requirements is not required from all trading partners. If the trading partner candidate intends to exchange transactions with one of these Implementation Guide special players, this type of testing is required. When a certification service certifies a trading partner for compliance, the certification service must indicate whether these payer specific requirements were met during the certification process. Other payers and trading partners may have their own specific business requirements; but unless they are listed in the HIPAA Implementation Guides, they are not HIPAA requirements. These non-HIPAA trading partner specific requirements must be tested as part of the business-to-business testing.

Type 1 testing is the validation that is normally performed by TIBCO BusinessConnect EDI Protocol powered by Instream. Types 2 through 7 are extra levels of validation performed by TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.

HIPAA Validation Error Severity

By default, any validation errors that occur cause a transaction to be rejected. When a transaction is rejected, the 997 generated contains an AK5 segment with a Transaction Set Acknowledgement Code of 'R' for the transaction. When validating HIPAA transactions, it is desirable to be able to control whether a validation error should cause the rejection of the entire transaction or not.

Sometimes we may want the error reported and the transaction rejected. At other times we may want to report the error in the 997 but to accept the transaction anyway (for example, the generated 997 would have a Transaction Set Acknowledgment Code of 'E' for accepted with errors). We might want validation errors ignored altogether or we might want only some validation errors ignored.

In conjunction with TIBCO Foresight HIPAA Validator Desktop, TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream provides the ability to configure the severity of validation errors which occur in HIPAA transactions.

Controlling the severity of validation errors is done through the use of validator profile files. For general information on creating and configuring validator profile files for use with X12 transactions, see the section *Configuring Validation Profile (.apf) Files* in the document *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*. The remainder of this section contains information on validator profile files that is specific to HIPAA transactions.

Error Severity Types

Following are the segments in the generated 997 acknowledge when a transaction is rejected:

```
ST~997~0001'
AK1~HC~000000001'
AK2~837~000000001'
AK3~CLM~36~2300~8'
AK4~11+3~1362~1~AP'
AK5~R'
AK9~R~1~1~0'
SE~9~0001'
```

The AK2 segment identifies the transaction which was rejected. The AK3 and AK4 segments give information about where the error(s) occurred in the transaction. The AK5 segment indicates the transaction was rejected and contains a transaction status code of 'R'. The AK9 segment indicates that the group was rejected, 'R', since there was only one transaction in the group and that transaction was rejected.

If some of the transactions in the group were accepted while others were rejected, the status of the group in the AK9 segment would be 'P', which indicates that at least one transaction in the group was rejected.

When a transaction is rejected, error information is also sent to the private process on the subject AX.BC.installation.X12.ERROR.VALIDATION.

This error information contains the transaction ID of the transaction which had validation errors and descriptive information about the validation errors similar to the following:

```
controlNumInfo={^class^="ControlNumberInfo"
^idx^=1 interchange="000008361" group="1" transaction="000000001"}
errorInfoList={^class^="ConversionEngineInfo" ^idx^=2 ^1^={^class^="ConversionEngineInfo" ^idx^=1
errorSeverity="Normal" errorCategory="Rejecting" errorMsg="The Previous Claim does not balance. Formula used
CLM02 (93534) = sum of SV102 (93533)." errorID="30092" errorContext="Loop/Group-2440 | Segment-HL"
errorDataParent="HL~4~2~2
3~0" errorSegmentCount=178 errorLoopGroupCount=1}}
```

Setting different error severity types to validation errors affect the information about the validation errors that is contained in 997 acknowledgements and the error information reported to the private process. It also affect whether or not the given transaction is converted from EDI to XML or from XML to EDI. When a transaction is rejected, no conversion takes place.

The following table describes the four levels of severity which can be configured for validation errors and their affect on how error information is reported.

Table 2 Error Severity Types

Error Severity Type	997 Acknowledgement	Error Information to Private Process	Data Conversion Occurs?
Ignore	AK5 segment reports transaction status of 'A' for accepted. AK3 and AK4 segments are not present.	Does not cause the generation of an error report to the private process.	Yes
Informational	AK5 segment reports transaction status of 'A' for accepted. AK3 and AK4 segments are not present.	The cause of the error will be reported in the message to the private process with the error code and a description of the error. The error description begins with Information.	Yes
Warning	AK5 segment reports transaction status of 'E' for accepted with errors. AK3 and AK4 segments contain information about the location of the error in the transaction as appropriate.	The cause of the error will be reported in the message to the private process with the error code and a description of the error. The error description begins with Warning.	Yes

Table 2 Error Severity Types (Cont'd)

Error Severity Type	997 Acknowledgement	Error Information to Private Process	Data Conversion Occurs?
Error	AK5 segment reports transaction status of 'R' for rejected. AK3 and AK4 segments contain information about the location of the error in the transaction as appropriate.	The cause of the errors is reported in the message to the private process with the error code and a description of the error.	No
Fatal		Similar in behavior to the 'Error' type but is used for system errors.	No



Only the five severity types listed in [Table 2](#) are supported for TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream. User defined severity types are not supported.

Control Validation Severity Levels

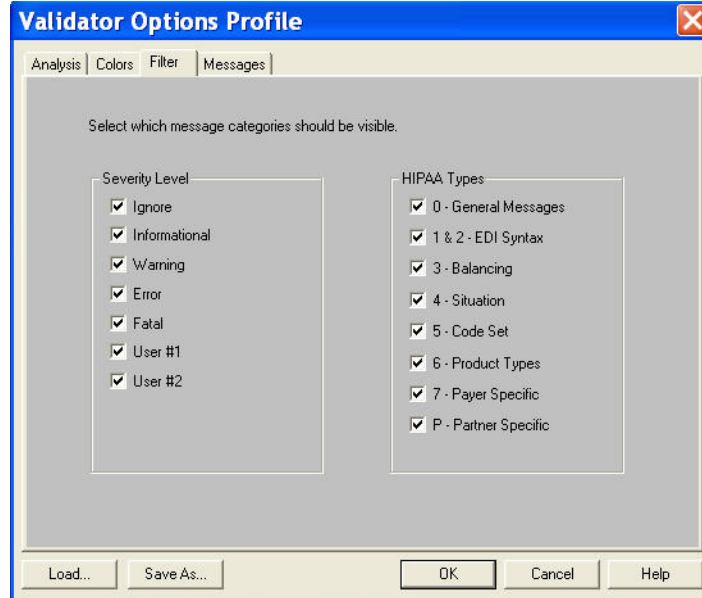
How the validation engine reports the severity of errors is controlled by creating and configuring Validator Profile (.apf) files. Either TIBCO EDISIM Validator or TIBCO Foresight HIPAA Validator Desktop can be used.

Once Validator is started, do the following to create a profile file with your custom settings:

1. Select **Options>Validator Profile**.
2. Select the **Filter** tab.

The Filter tab contains two groups of settings: Severity Level and HIPAA Types, as depicted in [Figure 3](#).

Figure 3 Validator Options Profile



By default all of the Severity Levels listed are checked, which means all of these categories of errors will be included and reported when validating transactions.

Suppress Severity Level

To cause the validation engine to suppress a particular severity level:

1. Uncheck the desired severity level.
2. Click **Save As...**
3. Specify the location and name to use for the .apf file
4. Use the BusinessConnect Operations Editor to upload the .apf file into the configuration for the transaction you wish to apply the .apf file to during validation

For example, to tell the validation engine to ignore Warning errors during validation of a 00401/004010X098A1/837 transaction, uncheck the box next to **Warning** in the Validator Options Profile page, save the profile, and then add the .apf file to the configuration of the 00401/004010X098A1/837 transaction in the Operations Editor.

Suppress HIPAA Type

The HIPAA Types settings are used to tell the validation engine the types of HIPAA errors to include during its validation of transactions.

By default, all of the HIPAA Types are included during validation. Unchecking a HIPAA type indicates that the validation engine should ignore errors of that type during its validation of a transaction. For example, to prevent balancing errors from causing a transaction to fail validation, you would uncheck the box next to **3-Balancing**.

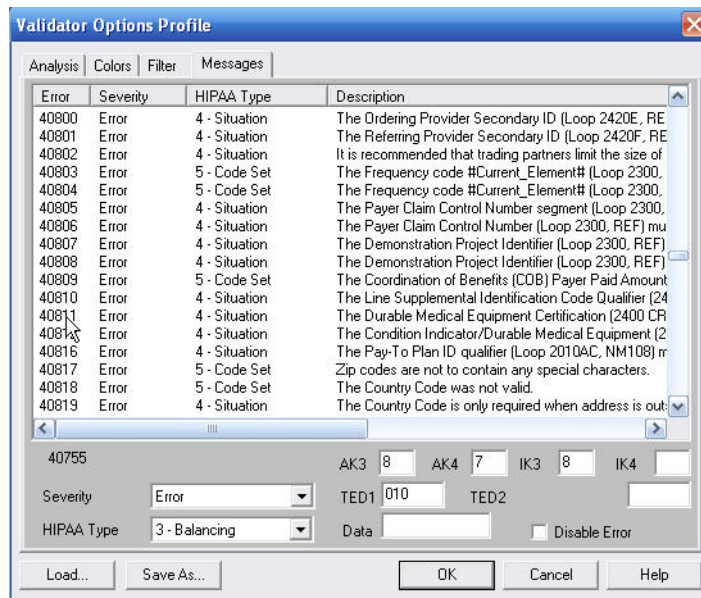
Controlling Severity by Error ID

With validator profile (.apf) files, you can also control the severity and HIPAA type of a particular error. Once Validator is started, create a profile file with settings which change the default behavior for a particular error ID.

1. Select **Options>Validator Profile**.
2. Select the **Messages** tab.

The Validator Options Profile dialog appears:

Figure 4 Validator Options Profile Messages



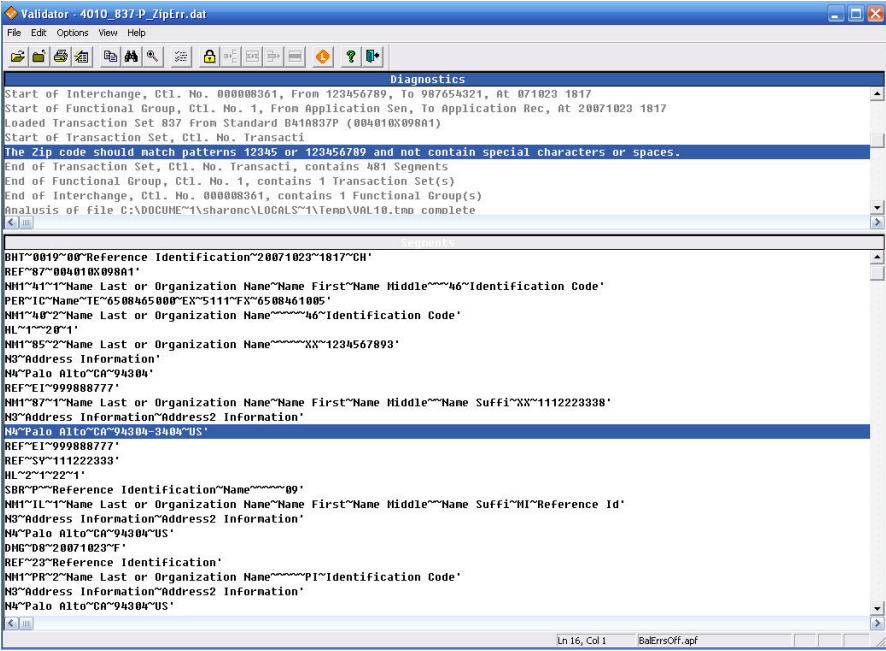
3. Select the line with the error you wish to change the settings for.
4. Select the **Severity** to apply to the error from the drop down list.
5. Select the **HIPAA Type** to apply to the error from the drop down list.
6. Click **Save As...**
7. Specify the location and name to use for the .apf file.

Use the TIBCO BusinessConnect Operations Editor to upload the .apf file into the configuration for the transaction you wish to apply the .apf file to during validation.

When using TIBCO Foresight HIPAA Validator Desktop to perform design-time validation of data files, it is also possible to create or modify .apf files to control the validation results you see during your design-time validation and then apply the .apf file to your TIBCO BusinessConnect configuration.

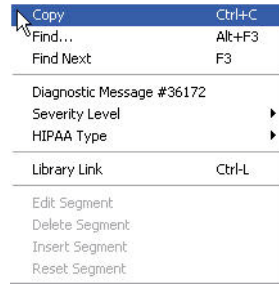
Sometimes, it is easier to determine the error ID you for which you need to specify new settings when you validate the data file using TIBCO Foresight HIPAA Validator Desktop. In this case, select the error when it is displayed and specify the settings to use. For example, if you used TIBCO Foresight HIPAA Validator Desktop to validate a 004010X098A1 837 Professional data file that contains an error in the format of the zip code, at the end of validation you would see something similar to [Figure 5](#):

Figure 5 Desktop Validator Diagnostic Message



By selecting the error message in the Diagnostic message pane and then right- clicking, you will see following menu options as shown in [Figure 6](#):

Figure 6 Diagnostic Message Options



The menu options tell you which error message ID is associated with the displayed error and also allows you to set the Severity Level and HIPAA Type to associate with that error ID.

Save the .apf file after configuring new settings for an error ID

Once you have configured new settings for an error ID in this manner, you need to save the .apf file created by these actions by doing the following:

1. Select **Options>Save Profile**.
2. Specify the location and name to use for the .apf file.
3. Use the TIBCO BusinessConnect Operations Editor to upload the .apf file into the configuration for the transaction you wish to apply the .apf file to during validation.

De-identifying a File

To protect the private information of individuals, it is sometimes necessary to de-identify the patient information in HIPAA transactions. At present, TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream does not provide a tool to de-identify the patient data in HIPAA transactions. It is recommended that one of the freely available de-identification tools available in the market be used.

HIPAA External Code Lists

The X12 specifications identify standard code lists which should be used to determine the correct values for the various data elements of X12 transactions. The HIPAA Implementation Guides or Type 3 Technical Reports (TR3s) specify the code list values which should be used for the data elements of HIPAA transactions.

The HIPAA Implementation Guides or TR3s can specify various types of code lists. For example, a code list could be

- a subset of the allowed values specified in the X12 specifications
- or
- a new code list to apply to a data element which previously had no code list applied to it.

In some cases, the HIPAA Implementation Guides for TR3s specify the exact codes to use for a particular code list. In other cases, the HIPAA Implementation Guides for TR3s refer to existing sets of codes which are maintained by various organizations throughout the government and health care industry.

The code lists which are maintained by these various organizations are referred to as external code lists. Some of the external code lists are freely available (for example, external code list #139 – Claim Adjustment Reason Codes). Other external code lists must be purchased from the organization which maintains the code list (for example, external code list #6 – D-U-N-S Numbers). For more information on external code list sources, refer to Appendix C, External Code Sources, of the HIPAA Implementation Guides or Appendix A, External Code Sources, of the HIPAA TR3s. These appendices list the external code lists utilized by the transaction and the organization responsible for maintaining each code list.

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains most of the HIPAA external code lists. The HIPAA external code lists are used in guidelines, which are provided with TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream, to provide type 5 validation of the HIPAA transactions. The external code lists are not contained in the guidelines but are referenced in the guidelines through the following external files:

TIBCO_HOME/instream/version_number/bin/fs_hipaa.dat

TIBCO_HOME/instream/version_number/bin/fs_cci.dat

TIBCO_HOME/instream/version_number/bin/fs_occident.dat

Missing External Code Lists

For some external code lists specified in the HIPAA transaction Implementation Guides or TR3s, there is not an associated external code list in the HIPAA transaction guidelines supplied with TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.

Some of the external code lists specified in the HIPAA transaction Implementation Guides or TR3s are actually comprised of other external code lists. Another external code list is listed in the HIPAA transaction Implementation Guides or TR3s but is not actually used by any transaction. These code lists are described in [Table 3](#):

Table 3 External Code Lists Without Codelists

Code List	Description
60	<p>Depository Financial Institution (DFI) Identification Number. This code list is composed of two other code lists. A qualifier specifies which of the two code lists is used when specifying the DFI Identification Number.</p> <p>The following two code lists can be used to specify the DFI Identification Number:</p> <ul style="list-style-type: none">• 4 ABA Transit Routing Number• 91 Canadian Bank Branch and Institution Number
77	<p>X12 Directories. This external code list is not used by any HIPAA transaction. It is used in 997 Functional Acknowledgements.</p>
94	<p>International Organization for Standardization (Date and Time). This code list does not contain actual values, but specifies the time format to use. The time zone codes are included as an internal code list based on X12 standards.</p>
158	<p>Health Care Financing Administration (HCFA). This code list is used in the Interchange header for the 820 transaction.</p> <p>The EDI Conversion Engine does not perform data validation against external code lists for the envelope segments (interchange and group) of the EDI data. It is the responsibility of the user to make sure that the information they configure for the interchange and group headers is correct.</p>

External Code Effective Dates

When a new revision of an external code list is released, the external code list file associated with the newly released external code list revision will be updated to reflect any new codes or modifications to existing codes. For new codes, if an effective date has been specified, that date will be used as the effective start date for the new code.

The effective date for a code is used to determine whether the code is valid for use by HIPAA transactions. If a code used in a HIPAA transaction is found to be outside of the code's effective date range, a validation error will occur. The date used in the HIPAA transaction for comparing against a code's effective date is determined as follows:

- **Transaction Date:** For non-medical code lists, the effective date of a code is compared to the transaction date.
- **Date of Service:** For medical code lists, the effective date of the code is compared to the date of service specified in the transaction.

Update Frequency

Each HIPAA external code list has its own update frequency. Some external code lists are updated yearly, others are updated quarterly, and some can be updated daily. Each release of TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream will contain the latest updates to the external code lists.

If you require more timely versions of external code lists, you can obtain external code list updates by contacting TIBCO Support.

You can also create and register external code list updates as a User External Code List. For further information, refer to [User External Code Lists on page 20](#).

User External Code Lists

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream allows you to change or add to existing code tables, as well as add completely new code tables to use for validation. Using this feature, you can:

- Temporarily add an invalid code to an existing external code list until your trading partners fix their use of the invalid code.
- Augment an external code list and add a custom code that is not normally part of the code list.
- Add new codes that have been released but have not yet been incorporated into TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
- Override the settings for existing codes.

By default, TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream looks for user external code lists in the file:

TIBCO_HOME/instream/*version_number*/bin/SampleUserTable.txt

After installation, this file is empty and has a length of zero (0). The following sections explain how to edit this file to customize use of external codes during validation.

For detailed information on managing custom external codes and code lists, see the document *Changing Desktop and Instream Code Tables* in the following file of your TIBCO Foresight HIPAA Validator Desktop installation:

HIPAA Validator Home/Doc/ExtendingCodeTables.pdf

This document also contains the current list of code table names.

Adding External Codes

To add your own custom codes to be used during validation, edit the file `SampleUserTable.txt` and add your custom codes by adding lines to the file using the following format:

`^USER<code table name>`

`<code>|<start date>|<end date>|<code description>`

The *start date* and *end date* have the format `yyyymmdd`. If left blank, use of the specified code will always be allowed. For example, to add a custom ZIP code which can be used regardless of transaction date, add the following line to the `SampleUserTable.txt` file:

`^USERZip`

`99999|||Special zip code with no start or end date`

Deleting External Codes

To delete an external code from an existing code table, edit the file `SampleUserTable.txt` and add entries which specify the codes to be deleted using the following format:

```
^USER<code table name>
<code>|del|<end date>|<code description>
```

Specifying a code to be deleted uses the same format as is used for specify a code to be added except that 'del' is specified as the <start date>. When deleting codes, anything entered for the <end date> and <code description> are ignored. For example, to indicate that use of the zip code 94304 should be invalid, add the following lines to the `ELCTable.txt` file:

```
^USERZip
94304|del||
```

Disabling an External Code List

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream also allows you to disable the use of an entire code list during validation. To disable an entire code list, add an entry to the `SampleUserTable.txt` file in the following format:

```
^<code table name> %DISABLE%
```

For example, to disable use of Taxonomy Codes enter the following into the `SampleUserTable.txt` file:

```
^TaxonomyCodes %DISABLE%
```


Chapter 2 **HIPAA Transaction Configuration**

This chapter explains how HIPAA transactions are configured using the TIBCO BusinessConnect Operations Editor.

Topics

- [Overview, page 24](#)
- [Transaction Configuration Files, page 25](#)
- [HIPAA Example Interfaces, page 28](#)
- [HIPAA Transaction Configuration, page 29](#)

Overview

To exchange HIPAA transactions using TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream, you must configure a transaction in the Operations Editor to associate with each transaction to be exchanged. For general information about this process, see Chapter 4 Operations Editor in the document *TIBCO BusinessConnect Trading Partner Administration*.

Since HIPAA transactions are specialized versions of X12 transactions, you should also review the X12 specific information for configuring operations in Chapter 3, Managing X12 Interchanges, Functional Groups, and Transactions, and Transactions in the document *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*.

Once you understand how to configure X12 transactions, read the sections in this manual that provide information specific to the configuration of HIPAA X12 transactions.

Transaction Configuration Files

When you configure a HIPAA transaction in the Operations Editor, the following files are needed for each transaction:

- HIPAA Transaction Guideline
- HIPAA Transaction Schema
- HIPAA Transaction Map File for EDI to XML or EDI to Text Conversion
- HIPAA Transaction Map File for XML to EDI Conversion

The HIPAA transaction guidelines contain rules which are used to validate HIPAA X12 transactions according to the HIPAA Implementation Guides (IGs) or Type 3 Technical Reports (TR3s). The HIPAA transaction guidelines are shipped with TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream in the directory *BC_HOME/protocols/tibedi/samples/sampleDocs/guidelines*.

The HIPAA transaction schemas contain the definition of the XML that can be used by your backend process for handling HIPAA transaction data. The schemas associated with the HIPAA transaction guidelines shipped by TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream can be found in the following directory:

BC_HOME/protocols/tibedi/samples/sampleDocs/schemas

The HIPAA transaction map files are used by the EDI conversion engine to convert HIPAA transaction EDI data into XML and the reverse. The HIPAA transaction map files can also be used to convert HIPAA transaction EDI data into textual data.

The map files associated with the HIPAA transaction schemas shipped by TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream are located in the directory *BC_HOME/protocols/tibedi/samples/sampleDocs/maps*.

The map files which contain the mapping for converting from XML to EDI data have file names of the form *schema_name_XE.map*. The map files used for converting inbound EDI data into XML data have file names of the form *schema_name_EX.map*.

You will notice that the names of the HIPAA transaction schemas and maps files are similar to each other but they are not similar to the names of the HIPAA transaction guidelines. This is because the HIPAA transaction schemas and maps files are created using TIBCO EDISIM Standards Editor which cannot read the HIPAA transaction guidelines because the rules in the guidelines are encrypted. So to create the HIPAA transaction schemas and maps files, you must use the unencrypted guideline from TIBCO EDISIM which only contains level 1 and 2 syntax checks but not the level 3 and above HIPAA validation rules.

The following table contains information on the name of the TIBCO EDISIM guideline used to generate the schemas and map files for each HIPAA transaction.

Table 4 TIBCO EDISIM Guidelines

HIPAA Transaction	HIPAA Guideline	EDISIM Guideline
00307/003070X070A1/277	PDSA3070277UX070A1.std	277-X070A1
00401/004010X092A1/270	PDSA270.std	270AA120
00401/004010X092A1/271	PDSA271.std	271AA120
00401/004010X093A1/276	PDSA276.std	276AA120
00401/004010X093A1/277	PDSA277.std	277AA120
00401/004010X094A1/278 (RQ)	PDA278RQ.std	278AREQ
00401/004010X094A1/278 (RSP)	PDA278RP.std	278ARES
00401/004010X061A1/820	PDSA820.std	820AA120
00401/004010X095A1/834	PDSA834.std	834AA120
00401/004010X096A1/837 (I)	PDSA837I.std	837AQ320
00401/004010X097A1/837 (D)	PDSA837D.std	837AQ220
00401/004010X098A1/837 (P)	PDSA837P.std	837AQ120
00404/004040X167/277	PDSA4040277UX167.std	277-X167
00405/004050X150/277	PDSA4050277X150.std	277-X150
00405/004050X151/275	PDSA4050275X151.std	275-X151
00405/004050X166/824	PDSA4050824X166.std	824-X166
00501/005010X279A1/270	PDSA5010270X279.std	270-X279
00501/005010X279A1/271	PDSA5010271X279.std	271-X279
00501/005010X212/276	PDSA5010276X212.std	276-X212
00501/005010X212/277	PDSA5010277X212.std	277-X212
00501/005010X217/278 (RQ)	PDSA5010278X217Q.std	278X217Q

Table 4 TIBCO EDISIM Guidelines (Cont'd)

HIPAA Transaction	HIPAA Guideline	EDISIM Guideline
00501/005010X217/278 (RSP)	PDSA5010278X217R.std	278X217
00501/005010X218/820	PDSA5010820.std	820-X218
00501/005010X220A1/834	PDSA5010834.std	834-X220
00501/005010X221A1/835	PDSA5010835.std	835-X221
00501/005010X222A1/837 (P)	PDSA5010837P.std	837-X222
00501/005010X223A2/837 (I)	PDSA5010837I.std	837-X223
00501/005010X224A2/837 (D)	PDSA5010837D.std	837-X224
00501/005010X214/277	PDSA5010277CAX214.std	277CA-X214
00501/005010X186A1/824	PDSA5010824X186.std	824-X186
00501/005010X210/275	PDSA5010275X210.std	275-X210
00501/005010X213/277	PDSA5010277X213.std	277-X213

HIPAA Example Interfaces

The example interfaces provided with TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream demonstrate how to configure the HIPAA transactions. The following example interfaces can be found in the directory

BC_HOME\protocols\tibedi\samples\interfaces:

- HIPAA-00401.csx - example interface for version 4010 HIPAA transactions with Addenda updates.
- HIPAA-00501.csx - example interface for version 5010 HIPAA transactions
- HIPAA-Ack-00307-277.csx - unsolicited 277 acknowledgement example
- HIPAA-Ack-00404-277.csx - 277 claim acknowledgement example
- HIPAA-Ack-00501-277.csx - 277 claim acknowledgement example
- HIPAA-Ack-00405-824.csx - 824 Application Advice acknowledgement example
- HIPAA-Ack-00501-824.csx - 824 Application Advice acknowledgement example
- HIPAA-HL7-00405-275-277.csx - HL7 claims attachment example
- HIPAA-HL7-00501-275-277.csx - version 5010 HL7 claims attachment example
- HIPAA-RT-00401-270-271.csx - synchronous request/reply example
- HIPAA-RT-00401-276-277.csx - synchronous request/reply example
- HIPAA-RT-00501-270-271.csx - version 5010 synchronous request/reply example
- HIPAA-RT-00501-276-277.csx - version 5010 synchronous request/reply example

The guidelines used in the example interfaces can be found in the directory:

BC_HOME\protocols\tibedi\samples\sampleDocs\guidelines



The unsolicited 277 transaction, 277 claim acknowledgement, and 824 application advice are not mandated by HIPAA. Customers should verify that their trading partners support the unsolicited 277, 277 claim acknowledgement, or 824 application advice acknowledgement prior to using them. The same is true of the 275/277 transactions used for HL7 claims attachments.

The following directory contains the EDI data files and XML files to use when running the example interfaces:

BC_HOME\protocols\tibedi\samples\sampleDocs\datafiles

The data in the sample EDI data files show the use of various elements of the HIPAA transactions. The sample EDI data files do not contain real data.

HIPAA Transaction Configuration

HIPAA Transaction Guidelines

All of the HIPAA guidelines provided by TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream are organized into subdirectories under *BC_HOME/protocols/tibedi/samples/sampleDocs/guidelines* according to the version of the guideline. For example, version 5010 guidelines are located in the following directory:

BC_HOME/protocols/tibedi/samples/sampleDocs/guidelines/5010_txns

Table 5 lists the HIPAA transactions and their associated guidelines:

Table 5 HIPAA Transactions Guidelines

HIPAA Transaction	HIPAA Guideline
00307/003070X070A1/277	PDSA3070277UX070A1.std
00401/004010X092A1/270	PDSA270-B.std (batch)
00401/004010X092A1/270R	PDSA270-RT.std (real-time)
00401/004010X092A1/271	PDSA271.std
00401/004010X093A1/276	PDSA276-B.std (batch)
00401/004010X093A1/276R	PDSA276-RT.std (real-time)
00401/004010X093A1/277	PDSA277.std
00401/004010X094A1/278 (RQ)	PDA278RQ.std
00401/004010X094A1/278 (RSP)	PDA278RP.std
00401/004010X061A1/820	PDSA820.std
00401/004010X095A1/834	PDSA834.std
00401/004010X096A1/837 (I)	PDSA837I.std
00401/004010X097A1/837 (D)	PDSA837D.std
00401/004010X098A1/837 (P)	PDSA837P.std
00404/004040X167/277	PDSA4040277UX167.std

Table 5 HIPAA Transactions Guidelines (Cont'd)

HIPAA Transaction	HIPAA Guideline
00405/004050X150/277	PDSA4050277X150.std
00405/004050X151/275	PDSA4050275X151.std
00405/004050X166/824	PDSA4050824X166.std
00501/005010X279A1/270	PDSA5010270X279-B.std (batch)
00501/005010X279A1/270R	PDSA5010270X279-RT.std (real-time)
00501/005010X279A1/271	PDSA5010271X279.std
00501/005010X212/276	PDSA5010276X212-B.std (batch)
00501/005010X212/276R	PDSA5010276X212-RT.std (real-time)
00501/005010X212/277	PDSA5010277X212.std
00501/005010X217/278 (RQ)	PDSA5010278X217Q.std
00501/005010X217/278 (RSP)	PDSA5010278X217R.std
00501/005010X218/820	PDSA5010820.std
00501/005010X220A1/834	PDSA5010834.std
00501/005010X221A1/835	PDSA5010835.std
00501/005010X222A1/837 (P)	PDSA5010837P.std
00501/005010X223A2/837 (I)	PDSA5010837I.std
00501/005010X224A2/837 (D)	PDSA5010837D.std
00501/005010X214/277	PDSA5010277CAX214.std
00501/005010X186A1/824	PDSA5010824X186.std
00501/005010X210/275	PDSA5010275X210.std
00501/005010X213/277	PDSA5010277X213.std

Guidelines that are designated as real-time transactions have limits applied as follows:

270 Transaction - number of patients limited to 1

276 Transaction - number of claims limited to 1

Guidelines that are designated as batch transactions have limits applied as follows:

270 Transaction - number of patients limited to 99

276 Transaction - number of claims limited to 99

Simplification of HIPAA Guideline Configuration

The HIPAA transactions are standard, therefore the same transaction guideline should be used for all Trading Partners unless you need to work around a situation in which one of your Trading Partners cannot yet send or receive HIPAA compliant transactions.

To facilitate the configuration of HIPAA transactions, it is not necessary to upload the .std files for the guidelines listed in [Table 5](#).

By not uploading the guidelines, the size of your repository will be reduced. If you have created transaction bindings for any of your trading partner configurations, the guidelines will not be exported with the trading partner configuration unless you have overridden the guideline. Therefore, not uploading the HIPAA transaction guidelines can also have the effect of reducing the size of your trading partner configuration exports.



Whenever a new version of TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream is installed, any changes to the HIPAA transaction guidelines, contained in the new version, will take effect immediately except for those guidelines which you have uploaded into your repository. Guidelines which have been uploaded into your repository must be manually replaced with the new versions of the guidelines.

CAQH Compliant HIPAA Transactions

The Committee on Operating Rules for Information Exchange (CORE[®]) Connectivity & Security Subgroup of the Council for Affordable Quality Healthcare (CAQH) has defined envelope, submitter authentication, and error processing standards to improve interoperability and utilization between healthcare providers, clearinghouses, health plans as part of its CORE Phase II and Phase IV Connectivity Rules.

The CAQH CORE Connectivity Rule was developed using a consensus-based approach, and is designed to facilitate interoperability, improve utilization of administrative transactions, enhance efficiency, and lower the cost of information exchange in healthcare. The key goal of the Connectivity Rule is to:

- Increase access to the HIPAA-mandated administrative transactions
- Enable all HIPAA-covered entities or their agents to build on and extend the connectivity and infrastructure capabilities established for the eligibility and claim status transactions in the previous phases of CAQH operating rules.

The Phase II Connectivity rule applies to the following batch and real-time transactions sent with the X12 protocol over the HTTPS transport:

- Eligibility Benefit Inquiry and Response (270/271)
- Health Care Claim Status Request and Response (276/277)
- Health Care Claim Acknowledgment (277)

The Phase IV Connectivity rule applies to the following administrative transactions when trading partners are exchanging any transaction specified in the third set of the Affordable Care Act (ACA) 1104 over SSL based authentication:

- ASC X12N v5010 837 Claim
- ASC X12N v5010 278 Request and Response
- ASC X12N v5010 820
- ASC X12N v5010 834

Organizations may apply this rule to other X12 transactions, but are not required to do so to be considered CORE-compliant. If this is the case, both trading partners must agree to adhere to the rule outside of the scope defined above.

The complete rules for Phase II and Phase IV are available in the following docs:

<https://www.caqh.org/sites/default/files/core/phase-ii/policy-rules/270-v5010.pdf>

<https://www.caqh.org/sites/default/files/core/phase-iv/470-connectivity-rule.pdf>

CAQH CORE Envelope Standards

The CAQH CORE Connectivity Rule requires that health providers, clearinghouses, and health plans support sending, receiving, and processing and SOAP message envelopes. Further, the rule requires that these message envelopes follow specified normative (for SOAP+WSDL envelopes) schemas. These schemas require that fields such as PayloadID, PayloadType, and CORERuleVersion be included in the message envelope. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream supports CORE-compliant transactions sent using the X12 protocol over HTTPS by packaging private process messages according to these requirements. See Chapter 5 Setting Up Trading Partners, CAQH Tab in the *TIBCO BusinessConnect EDI Protocol powered by Instream X12 Configuration* document for more information about configuring BusinessConnect to package messages in conformance to CAQH CORE requirements.

Private process messages sent to BusinessConnect require the following fields to conform to CAQH CORE standards:

Initiator Outbound Request (INITIATOR.REQUEST)

- **enableCAQHPackage** This boolean field specifies if it is a CAQH or non-CAQH package. You set the value to 1 to enable if it is a CAQH package or set the value to 0 to specify that it is not a CAQH package.
- **CAQHOperationID** This string field describes the pre-defined CAQH operation ID.
- **PayloadType** This conversational field describes the type of document (request, response, confirmation, or acknowledgement) and the type of transaction. You must define this field in the private process message for CORE-compliant packaging.



Valid payload types for Phase II are available in the Enumeration of Processing Mode and Payload Type Fields section of the following doc

<https://www.caqh.org/sites/default/files/core/phase-ii/policy-rules/270-v5010.pdf>

Valid payload types for Phase IV are available in the Enumeration of and Payload Type Fields section of the following doc

<https://www.caqh.org/sites/default/files/core/phase-iv/processing-mode-payload-type.pdf>

- **PayloadID** This string field is the ID for the payload of the message.
- **SenderID** This string field is the ID of the sender of the message.
- **ReceiverID** This string field is the ID of the receiver of the message.
- **authenticationToken** This field combines the user name and password fields.
- **userName** This string field is the user name that is entered to validate at the responder side.
- **password** This string field is the password that is entered to validate at the responder side.

Initiator Inbound Response (INITIATOR.RESPONSE)

- **CAQHOperationID** This string field describes the pre-defined CAQH operation ID.
- **PayloadType** This conversational field describes the type of document (request, response, confirmation, or acknowledgement) and the type of transaction. For Initiator Response messages, the payload type is received from the trading partner as part of an actual request.
- **ProcessingMode** This field describes the type of transaction - real-time or batch.
- **PayloadID** This string field is the ID for the payload of the message received from a trading partner.

- **TimeStamp** This string field indicates the time at which the message is sent.
- **SenderID** This string field is the ID of the sender of the message.
- **ReceiverID** This string field is the ID of the receiver of the message.
- **ErrorCode** This string field is the error code that is displayed.
- **ErrorMessage** This string field is the error message that is displayed against the corresponding error code.

Responder Inbound Request (RESPONDER.REQUEST)

- **CAQHOperationID** This string field describes the pre-defined CAQH operation ID.
- **PayloadType** This is the payload type received from a the trading partner when an actual request is received from the partner.
- **ProcessingMode** This field describes the type of transaction - real-time or batch.
- **PayloadID** This string field is the ID for the payload of the message received from a trading partner.
- **TimeStamp** This string field indicates the time at which the message is sent.
- **SenderID** This string field is the ID of the sender of the message.
- **ReceiverID** This string field is the ID of the receiver of the message.
- **ErrorCode** This string field is the error code that is displayed.
- **ErrorMessage** This string field is the error message that is displayed against the corresponding error code.

Responder Outbound Response (RESPONDER.RESPONSE)

- **CAQHOperationID** This string field describes the pre-defined CAQH operation ID.
- **PayloadType** This string field describes the type of the response file that is sent back to BusinessConnect.
- **PayloadID** This string field is the ID for the payload of the message.
- **SenderID** This string field is the ID of the sender of the message.
- **ReceiverID** This string field is the ID of the receiver of the message.

CAQH CORE Submitter Authentication Standards

The CAQH CORE Connectivity Rule requires that clearinghouses, health plans, health providers, and other organizations that act as a server support an authentication method to enforce access control. Organizations that act as clients must authenticate themselves to the server. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream

supports authentication by populating the user name and password fields of outbound SOAP message envelopes. The trading partner—generally a clearinghouse or health plan—that receives such messages uses these fields to authenticate against its external authentication system. See Chapter 4 Setting Up Trading Hosts, General Tab in the *TIBCO BusinessConnect EDI Protocol powered by Instream X12 Configuration* document for more information about configuring BusinessConnect to package messages in conformance to CAQH CORE requirements.

CAQH CORE determined that converging on the use of the X.509 digital certificate as the single authentication standard in the CAQH CORE Phase IV Connectivity Rule v4.0.0.

HIPAA Transaction Configuration

HIPAA transactions are specialized versions of X12 transactions and are, therefore, configured in the same way. Using the TIBCO BusinessConnect Operations Editor, you can:

- Add an Interchange Version
- Add a Group Version to an Interchange Version
- Add a Transaction to a Group Version

For detailed information on how to configure X12 transactions see Chapter 3, Managing X12 Interchanges, Functional Groups, and Transactions, in the document *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*.

Configuring Acknowledgements

In addition to 997 Functional Acknowledgements, 999 Implementation Acknowledgements, and TA1 Interchange Acknowledgement Segments, the following business application acknowledgements can be automatically generated for HIPAA transactions received from your trading partners:

- Application advice (824)
- Unsolicited Health Care Claim Status Notification (277U)
- Health Care Claim Acknowledgement (277CA)

The 824, 277U, and 277CA acknowledgements are treated as regular transactions and acknowledgements will be returned for them just as they would be returned for a normal HIPAA transaction. For example, if the system is configured to return 997s and TA1s, then a 997 and TA1 will be returned when an 824, 277U or 277CA acknowledgement is received.

The 824, 277U, and 277CA acknowledgements are not supported for use in synchronous request/response HIPAA transactions. For information on configuring 999 Implementation Acknowledgements, see [Configuring 999 Implementation Acknowledgements on page 39](#).

Configuring 824 Application Advice Acknowledgements

The 824 Application Advice reports the results of an application system's data content edits on a transaction set. The 824 Application Advice can report on validation errors that are beyond the syntax errors that are normally reported by the 997 or it can report the receipt of a transaction that passed validation without any errors. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream supports the following versions of the 824 Application Advice:

- 4050X166 generated for 4010 HIPAA transactions
- 5010X186 generated for 5010 HIPAA transactions

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream can be configured to automatically generate an 824 Application Advice for HIPAA transactions. The 824 Application Advice will contain information on the validation results when a transaction was validated against the validation rules contained in the HIPAA Implementation Guides or Type 3 Technical Reports (TR3')s. For more information on configuring TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream to automatically generate an 824 Application Advice for a trading partner, see [HIPAA Acknowledgement Properties on page 43](#).

To use the 824 Application Advice, you must also configure the transaction properties in the Operations Editor. Example interfaces containing the configurations for the supported versions of the 824 can be found in the directory:

BC_HOME/protocols/tibedi/samples/interfaces.

The example interfaces are named as follows: HIPAA-Ack-<interchange version>-824.csx

To explain how to configure the 824 Application Advice, the example interface HIPAA-Ack-00405-824.csx will be used. Importing this interface in the Operations Editor will result in the following:

- 00405 interchange version
- 004050X166 group version
- 824 transaction set

Once this interface is imported and your trading partner is configured for automatic generation of this version of the 824 Application Advice, TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream will automatically generate this version of an 824 Application Advice whenever a 4010 HIPAA transaction is validated.

You could also manually configure the 824 Application Advice in the Operations Editor just as you would configure any other X12 interchange, group and transaction set. However for the 824 Application Advice, it is not necessary to upload the guidelines to use for validation. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream knows which guidelines should be used when the interchange, group and transaction are configured as follows:

- 00405 Interchange Version
- 00501 Interchange Version
- 004050X166 Group Version
- 005010X186A1 Group Version
- 824 Transaction Set: leave transaction guideline empty

When configured as above, the following guidelines will be used:

- 004050X166_824 Transaction: PDSA4050824X166.std
- 005010X186A1_824 Transaction: PDSA5010824X186.std

These guidelines can be found in the following directory:

BC_HOME/protocols/tibedi/samples/sampleDocs/guidelines

Configuring 277U Unsolicited Health Care Claim Status Notifications

The 277U unsolicited health care claim status notification reports the results of an application system's data content edits on the claims in a HIPAA version 4010 837 transaction set. The example interface `HIPAA-Ack-00307-277.csx` contains the configuration for this acknowledgement. This interface can be found in the directory `BC_HOME/protocols/tibedi/samples/interfaces`

Importing this interface in the Operations Editor will result in the following:

- 00307 interchange version
- 003070X070A1 group version
- 277 transaction set

You could also manually configure the 277U acknowledgement in the Operations Editor just as you would configure any other X12 interchange, group and transaction set. However for the 277U acknowledgement, it is not necessary to upload the guidelines to use for validation. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream knows which guidelines should be used when the interchange, group and transaction are configured as follows:

- 00307 Interchange Version
- 003070X070A1 Group Version
- 277 Transaction Set: leave transaction guideline empty

When configured as above, the following guideline will be used:

- 277 Transaction Set: `PDSA3070277UX070A1.std`

This guideline can be found in the following directory:

`BC_HOME/protocols/tibedi/samples/sampleDocs/guidelines.`

Configuring 277 Claim Acknowledgement

The 277 Claim Acknowledgement has replaced usage of the 277U Unsolicited Health Care Claim Status Notification. The 277 Claim Acknowledgement reports the results of an application system's data content edits on the claims in a HIPAA 837 transaction. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream supports two versions of the 277 Claim Acknowledgement:

- 5010X214
- 4040X167

Version 5010X214 277 Claim Acknowledgements can be generated for version 5010 HIPAA 837 transactions only.

Version 4040X167 277 Claim Acknowledgements can only be generated for version 4010A1 HIPAA 837 transactions.

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream can be configured to automatically generate 277 Claim Acknowledgements for the claims inside a HIPAA 837 transaction. Generation of both 277 Claim Acknowledgements and 277U Unsolicited Health Care Claim Status Notifications cannot be done.

The 277 Claim Acknowledgement contains information on the validation results when a claim is validated against the validation rules contained in the HIPAA Implementation Guides or Type 3 Technical Reports (TR3's). For more information on configuring TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream to automatically generate 277 Claim Acknowledgements for a trading partner, see [HIPAA Acknowledgement Properties on page 43](#).

To use the 277 Claim Acknowledgement, you must also configure the transaction properties in the Operations Editor. Example interfaces containing the configurations for the supported versions of the 277 Claim Acknowledgement can be found in the directory: *BC_HOME/protocols/tibedi/samples/interfaces*

The example interfaces are named *HIPAA-Ack-interchange version -277.csx*.

Configuring 999 Implementation Acknowledgements

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream supports the automatic generation of version 005010X231A1 999 Implementation Acknowledgements for HIPAA version 5010 transactions.

For more information on configuring TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream to generate version 005010X231A1 999 Implementation Acknowledgements in response to HIPAA 5010 transactions, see [HIPAA Acknowledgement Properties on page 43](#).

Non-HIPAA 999 Implementation Acknowledgements are explained in detail in *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*, Configuring Acknowledgements.

Chapter 3

Setting Up Trading Hosts and Partners

This chapter describes how to set up trading hosts and Partners in TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream. Since HIPAA is a specialized version of X12, the configuration for Trading Hosts uses the X12 protocol.

Topics

- [Settings Up Trading Hosts and Partners, page 42](#)
- [Set Up a Partner, page 42](#)
- [HIPAA Acknowledgement Properties, page 43](#)
- [Loading HIPAA Guidelines, page 46](#)

Settings Up Trading Hosts and Partners

Set Up a Host

To configure a trading host for TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream, follow the instructions given for the trading hosts in *TIBCO BusinessConnect EDI Protocol Powered by Instream, X12 Configuration*.

Set Up a Partner

To configure a trading partner for TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream, follow the instructions given for the trading partners given in *TIBCO BusinessConnect EDI Protocol Powered by Instream, X12 Configuration*.

You will configure partners using the following GUI dialogs:

- **General tab** Same as X12
- **Logging tab** Same as X12
- **Batching tab** Same as X12
- **Interchange Header tab** Same as X12
- **Group Header tab** Same as X12
- **Acknowledgement tab** Same as X12
- **HIPAA Acknowledgement Tab** See [HIPAA Acknowledgement Properties on page 43](#).
- **Control Numbers tab** Same as X12
- **Delimiters tab** Same as X12
- **Transports tab** Same as X12

HIPAA Acknowledgement Properties

Business Application Acknowledgements

The following is a list of the versions of business application acknowledgements that are supported by TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream:

- 00405/004050X166/824 - generated for 4010 HIPAA transactions
- 00501/005010X186A1/824 - generated for 5010 HIPAA transactions
- 00307/003070X070A1/277 - generated for 4010 HIPAA transactions
- 00404/004040X167/277 - generated for 4010 HIPAA transactions
- 00501/005010X214/277 - generated for 5010 HIPAA transactions

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream can automatically generate the following business application acknowledgements:

- Application advice (824)
- Unsolicited Health Care Claim Status Notification (277U)
- Health Care Claim Acknowledgement (277CA)

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

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

- Acceptance
- Rejection
- Acceptance with change

The unsolicited health care claim status notification (277U) reports the results of an application system's data content edits on the claims in a transaction set.

The 277 Claim Acknowledgement (277CA) has replaced usage of the 277U Unsolicited Health Care Claim Status Notification. The 277 Claim Acknowledgement reports the results of an application system's data content edits on the claims in a HIPAA 837 transaction.

Use the HIPAA Acknowledgement tab to specify settings to use in composing these business application acknowledgements for documents sent by this trading partner. These settings will only take effect if transaction level acknowledgements have been enabled in the Acknowledgement tab.

The 997 or 999 that will be generated, when 824 application advice acknowledgements are also generated, will only contain the results of the X12 and HIPAA syntax validation edits for the transaction.

999 Acknowledgements

In accordance with the 5010 transaction TR3s, TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream can be configured to generate version 005010X231A1 999s for all HIPAA 5010 transactions.

Use the HIPAA Acknowledgement tab to enable the option for generating version 005010X231A1 999s. This setting overrides any other 997 or 999 acknowledgement generation settings for 00501 interchanges which contain HIPAA 5010 transactions.

See [Table 6](#) for details.

Table 6 HIPAA Acknowledgement Fields

824 Application Advice Creation	<div>Defines when 824 acknowledgements are created for this partner by the host. The possible acknowledgement creation options are:</div> <ul style="list-style-type: none">None No acknowledgement is created (default).Always The acknowledgement is created whether there are validation errors to be reported or not. The acknowledgement will contain all validation edit info other than that which is related to syntax checking for X12 and HIPAA.Only on Errors The acknowledgement will only be created if there are errors in validation which are not related to X12 syntax or HIPAA syntax.
824 Application Advice Version	<div>Select the version of the 824 Application Advice that should be generated:</div> <ul style="list-style-type: none">004050X166 This version of 824 application advice will only be generated for version 4010 HIPAA transactions (default)005010X186 This version of 824 application advice will only be generated for version 5010 HIPAA transactions.004050X166 & 005010X186 Generate 824 application advice for both version 4010 and 5010 HIPAA transactions.

Table 6 HIPAA Acknowledgement Fields (Cont'd)

277 Health Care Notification Creation	<p>Defines when a 277U or 277CA acknowledgement is created for this partner by the host. 277U or 277CA acknowledgements are only created for 837 transactions.</p> <p>The possible acknowledgement creation options are:</p> <ul style="list-style-type: none"> • None No acknowledgement is created (default). • Always The acknowledgement is created whether there are validation errors to be reported or not. The acknowledgement will contain all validation edit info including that which is related to syntax checking for X12 and HIPAA.
277 Health Care Notification Version	<p>Select the version of the 277U or 277CA that should be generated:</p> <ul style="list-style-type: none"> • 003070X070A1 - Unsolicited Claim Status. A 277U will only be generated for version 4010 HIPAA transactions. (default) • 004040X167 - Claim Acknowledgement. A 277CA will only be generated for version 4010 HIPAA transactions. • 005010X214 - Claim Acknowledgement. A 277CA will only be generated for version 5010 HIPAA transactions. • 004040X167 & 005010X214 - Claim Acknowledgement. A 277C will be generated for both version 4010 and 5010 HIPAA transactions. • 003070X070A1 & 005010X214 - Claim Acknowledgement. A 277U will be generated for 4010 HIPAA transactions and a 277CA will be generated for 5010 HIPAA transactions.
005010X231A1 999 Ack Creation	<p>Enable generation of version 005010X231A1 999 acknowledgements for HIPAA 5010 transactions.</p> <ul style="list-style-type: none"> • Off - 997 and 999 acknowledgement settings from the Acknowledgement tab applied to all transactions. • 5010 HIPAA Transactions - Version 005010X231A1 999s will be generated for 00501 interchanges which contain HIPAA 5010 transactions. The 'Inbound Ack Creation Option' setting, from the Acknowledgement tab, will still be applied (e.g. Interchange, Group and Txn).

Loading HIPAA Guidelines

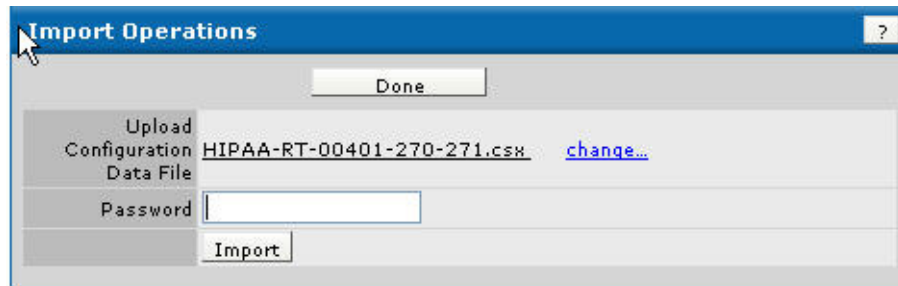
Load Guidelines and XSDs

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains a sample configuration file for this tutorial. You import the configuration file into the Operations Editor as follows:

1. Using TIBCO Administrator, click the **BusinessConnect > Operations Editor** link in the left panel.
2. Click the **Import** button.
3. Click **change....**
4. Click **Browse**.
5. Select *BC_HOME\protocols\tibedi\samples\interfaces\interface file name*
The example file name: HIPAA-RT-00401-270-271.csx.
6. Click **Open**.
7. Click **OK**.

The Import Operations dialog appears.

Figure 7 Import Operations Dialog



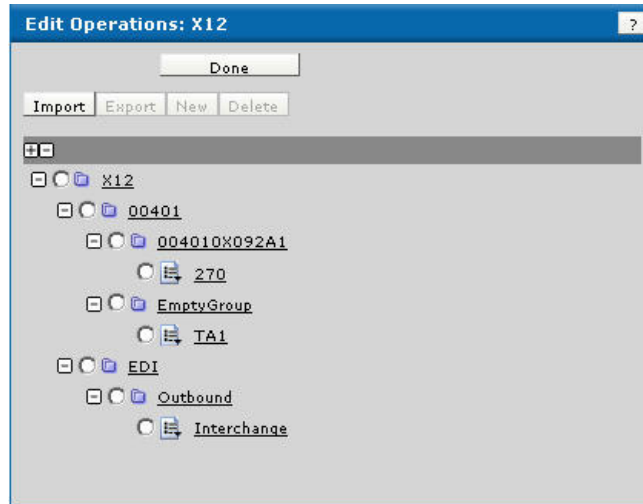
8. Click **Import**.

Review Guidelines

To review the guideline loaded for the 270 Eligibility, Coverage or Benefit Inquiry transaction, follow these steps:

1. Click the X12 link.
2. Click the top-most + to display all X12 operations

Figure 8 Edit Operations



3. Click the **270** link.
4. Click the **Guideline** tab.
5. Notice that there is not a guideline specified for the Request, the Acceptance Response, or the Rejection Ack. Only the GS01 Functional Identifier Code needs to be specified for each of these items.

Guideline files do not have to be specified for HIPAA transactions because TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream has default guidelines which, when used, will provide HIPAA compliant validation. For HIPAA transactions, it uses the default guideline if the Transaction Guideline field has been left empty and the interchange and group have been properly named.

6. Click **Save** and **Done**.

Chapter 4

HIPAA Transactions Tutorial

This chapter gives an overview of how to use TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream to exchange real-time transactions.

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

Topics

- [Overview, page 50](#)
- [Tutorial Prerequisites, page 52](#)
- [Configuring the Trading Host Machine, page 53](#)
- [Configuring the Trading Partner Machine, page 62](#)
- [Running the Tutorial, page 67](#)

Overview

In this tutorial you use TIBCO ActiveMatrix BusinessWorks and TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream running on one machine (the host) to send a HIPAA 270 Eligibility, Coverage or Benefit Inquiry transaction to another machine running TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream (the trading partner).

A simple private process on the receiving machine is configured to send a HIPAA 271 Eligibility, Coverage or Benefit Information transaction through TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream in response to the 270 transaction. The transaction set identifier information is as follows:

- The initiator machine:
 - Transaction set - 270
 - Group version - 4010X092A1
 - Interchange version - 00401
- The responder machine:
 - Transaction set - 271
 - Group version - 4010X092A1
 - Interchange version - 00401

As you run the tutorial, the TIBCO software applications perform these tasks on the host machine:

1. TIBCO Designer or TIBCO Business Studio reads an XML file which contains the data for a 270 transaction.
2. TIBCO Designer or TIBCO Business Studio parses the XML data and send the XML data to TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
3. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream will convert the XML data to X12 data.
4. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream will validate the X12 data against a 270 guideline.
5. The validated X12 data will be bundled into an interchange for sending to the trading partner.
6. The software uses HTTP transport to send the interchange to the trading partner.

The TIBCO software applications perform these tasks on the trading partner machine:

1. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream receives the X12 interchange.
2. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream validates the X12 data against the 270 transaction guideline.
3. The software converts validated 270 X12 data to XML data.
4. The software sends the converted 270 XML data to the private process.
5. The private process returns statically configured 271 XML data to TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
6. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream takes the 271 XML data it receives from the private process and converts the XML data to X12 data.
7. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream validates the X12 data against a 271 guideline.
8. The software bundles the validated 271 data into an interchange.
9. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream takes the interchange containing the 271 data and returns it as part of the 200 OK HTTP response to the original HTTP request.

The following steps will then occur on the host machine:

1. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream validates the X12 data against the 271 transaction guideline.
2. The software converts the validated 271 X12 data to XML data.
3. The software sends the converted 271 XML data to the private process.
4. The private process logs data from the 271 response.

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

Tutorial Prerequisites

Before starting the tutorial, perform these tasks on the host and trading partner machines:

1. Install the following software packages:
 - a. TIBCO BusinessConnect (Server)
 - b. TIBCO BusinessConnect Palette
 - c. TIBCO BusinessConnect EDI Protocol powered by Instream
 - d. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream



For the exact versions of these software packages, refer to the file `TIB_bcedihed_n.n.n_readme.txt` for each release.

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains all of the guidelines needed by the tutorial. Therefore it is not necessary to use EDISIM to create and customize any guidelines for the tutorial.

2. If you are unfamiliar with HIPAA, read [Chapter 1, Introduction to HIPAA Protocol, on page 1](#).
3. If you are unfamiliar with the X12 standard, see *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*, Chapter 1, "X12 Overview."
4. Review Chapter 2, Managing EDI Guidelines, in *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*.
5. Review Chapter 3, Exchanging Documents, in *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*.
6. See the *TIBCO BusinessConnect Internal Server Administration* and the *TIBCO BusinessConnect Trading Partner Administration* for complete information on setting up and running TIBCO BusinessConnect.

Configuring the Trading Host Machine

Load Guidelines and XSDs

The first step in configuring the trading host machine is to load the guidelines and XSDs. For this tutorial, the procedure for loading the guidelines and XSDs is the same on both the Trading Host machine and the Trading Partner machine. The example interface HIPAA-RT-00401-270-271.csx should be used on both the Trading Host machine and the Trading Partner machine.

Follow the steps explained in [Review Guidelines on page 47](#) and [Load Guidelines and XSDs on page 46](#).

Create the Trading Host on the Host Machine

To configure the trading host, you need to create the trading host and configure the protocol for the trading host.

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

Configure the Host Protocol on the Host Machine

For this tutorial, we are going to disable all protocols except for the X12 protocol. The interchange qualifier and ID will then be configured for the X12 protocol.

Enable the X12 Protocol

1. Click the **Protocols** tab.
2. Select the **EZComm**, **Service**, **EDIFACT**, **TEXT**, **TRADACOMS**, and **Gateway** check boxes.
3. Click the **Disable** button.

This leaves only the X12 protocol on the list.

Set the Interchange Qualifier and ID

1. Click the **X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field.
3. Click the **Add New** button.
4. In the Interchange Qualifier drop-down list, select **01**.
5. In the ID field, type **123456789**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **01-123456789**.
9. Click **Save** twice.
10. The Participants window appears with the host company added.

Create the Trading Partner on the Host Machine

To create the trading partner and enable the X12 protocol, do the following:

1. In the Participants windows, click the **New** button.
2. Type **Company2** in the Participant Name field.
3. Select **Partner** in the Participant Type drop-down list.
4. Click **OK**.
5. Check the **Active** checkbox.

Configure the Partner Protocol on the Host Machine

To configure the protocol for the trading partner, you need to:

- Enable the X12 protocol
- Set the interchange qualifier and ID
- Enable outbound EDI validation
- Set the transport

Enable the X12 Protocol

1. Click the **Protocols** tab.
2. Click **Enable**.
3. Check the **X12** checkbox.

4. Click **OK**.

Set the Interchange Qualifier and ID

1. Click the **X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field.
3. Click the **Add New** button.
4. In the Interchange Qualifier drop-down list, select **01**.
5. In the ID field, type **987654321**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **01-987654321**.
9. Click **Save**.

Enable Outbound EDI Validation

To enable outbound EDI validation:

1. Click the **X12** link.
2. Locate the Outbound settings section at the bottom of the General tab.
3. Select **Enable EDI Validation**.

Set the Transport

To set the transport:

1. Click the **Transports** tab.
2. Click **Add**.
3. Type **HTTP** in the Transport Name field.
4. Select **HTTP** from the Transport Type drop-down list.
5. Click **OK**.

The New HTTP Transport dialog appears.

6. In the URL field, type the URL of the trading partner's machine. For example, *machine1.acme.com:8800/X12*.
7. Click **Save** three times.

Configure the Business Agreement on the Host Machine

1. Click the **Business Connect > Business Agreements** link in the left panel.
2. Click the **New** button in the right panel.
3. Select the **Company1** radio button in the Host Party area and the **Company2** radio button in the Partner Party area.
4. Click **OK**.
5. In the New Agreement dialog, click the **Add Protocol Binding** button.
6. Select the **X12** checkbox.
7. Click **OK**.
8. Click the **X12** link.
9. Click the **Transports** tab.
10. Make sure that **HTTP** is selected in the Primary Transport drop-down list in the Outbound Transports for Host 'Company1' area.
11. Click **Save** twice.

Configure Private Processes on the Host Machine

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains an example TIBCO ActiveMatrix BusinessWorks project that sends a HIPAA 270 transaction to TIBCO BusinessConnect.

This section contains the following parts:

- [Processes Overview, page 56](#)
- [Configuring Private Process in TIBCO Designer, page 57](#)
- [Configuring Private Process in TIBCO Business Studio, page 60](#)

Processes Overview



Process names are different in TIBCO Designer and TIBCO Business Studio. For example, the Send 270 RT Request process in TIBCO Designer equals the Send_270_RT_Request process in TIBCO Business Studio. The following description takes processes in TIBCO Designer as an example.

The HIPAA_RTPatientEligibility project in the example contains the following processes:

- **Send 270 RT Request** Reads a file containing the XML data equivalent of a 270 transaction and sends the XML data to TIBCO BusinessConnect.
- **Validation Error Advisory Received** Activated when TIBCO BusinessConnect sends out an advisory indicating that there was a validation error on the original 270 Transaction.

Configuring Private Process in TIBCO Designer

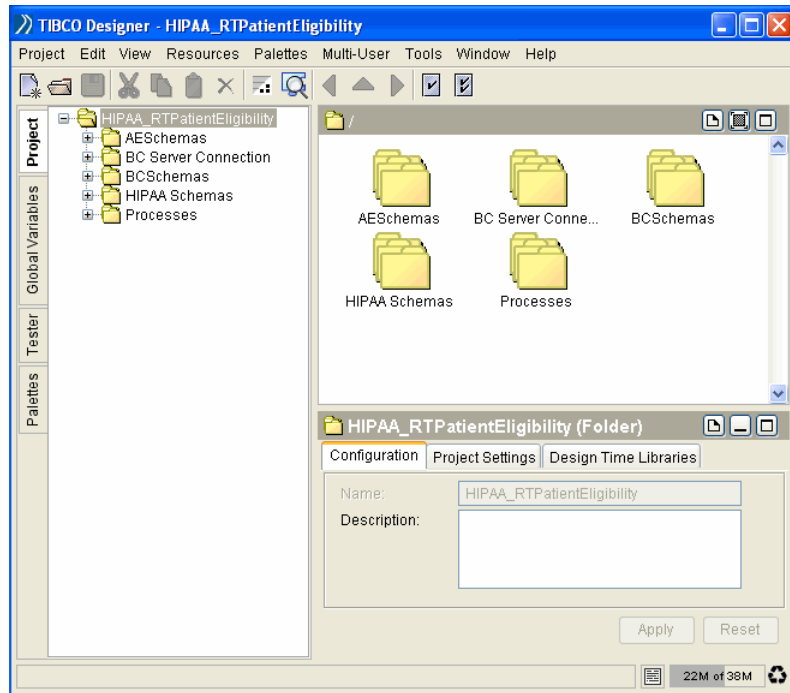
To configure private process in TIBCO Designer:

- [Task A, Opening the TIBCO ActiveMatrix BusinessWorks Project, page 57](#)
- [Task B, Configuring Connections to BusinessConnect, page 58](#)

Task A Opening the TIBCO ActiveMatrix BusinessWorks Project

To open the example TIBCO ActiveMatrix BusinessWorks project in TIBCO Designer, do the following:

1. In TIBCO Designer, click **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\HIPAA_RTPatientEligibility*
6. Select **HIPAA_RTPatientEligibility.zip** and click **Open**.
7. Click **OK**.
8. In the Options tab, select **Try rename in case of name conflict**.
9. Click **Apply**.
10. Select **Project > Save As**.
11. In the Project Directory file chooser, navigate to *BC_HOME\protocols\tibedi\samples\bw\HIPAA_RTPatientEligibility*
12. Click **OK**.
13. Click **Yes** when a dialog appears asking to use the directory as a project directory. The following window is displayed.

Figure 9 *HIPAA_RTPatientEligibility Project*

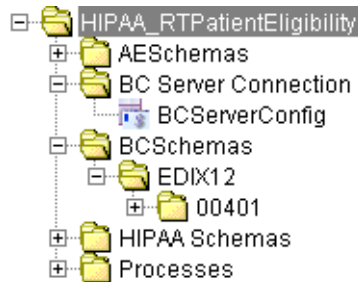
14. Click the **Global Variables** tab.
15. Set **BCHome** to your TIBCO BusinessConnect installation directory.
16. Save the project but do not exit TIBCO Designer.

Task B Configuring Connections to BusinessConnect

To configure connections to BusinessConnect, do the following:

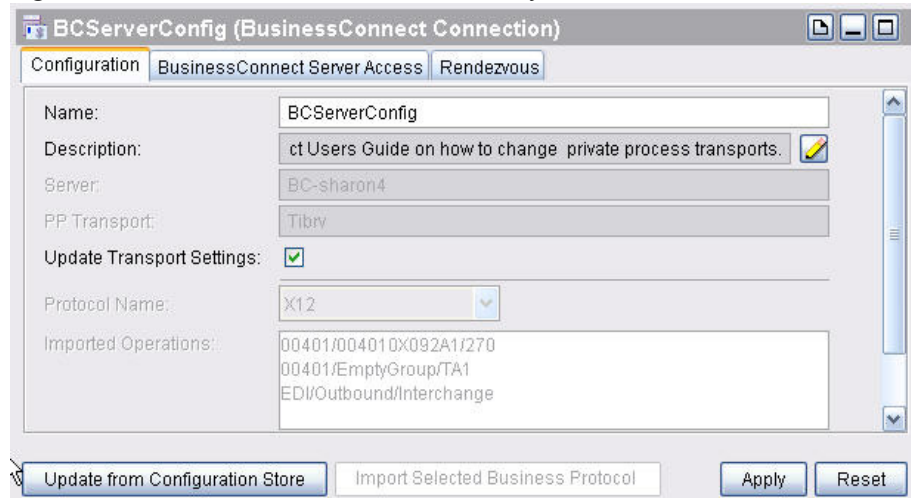
1. Click the **Project** tab.
2. Expand the **HIPAA_RTPatientEligibility** folder.
3. Click the **BC Server Connection/BCServerConfig** BusinessConnect connection icon.

Figure 10 BCServerConfig Icon



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 drop-down list.
 - b. Type the URL for the configuration store in the JDBC URL field.
 - c. Type the configuration store user name and password in the DB User and Password fields.
 - d. Click the **Apply** and **Save** 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 **X12** from the Protocol Name drop-down list.
8. Click the **Import Selected Business Protocol** button. When you import the protocol, TIBCO ActiveMatrix BusinessWorks retrieves schema information from the TIBCO BusinessConnect configuration store and puts it in the BCSchemas project folder.

Figure 11 Schema Posted to the BCSchema Project Folder



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

Configuring Private Process in TIBCO Business Studio

To configure the private process in TIBCO Business Studio:

- [Task A, Opening the TIBCO ActiveMatrix BusinessWorks Project, page 60](#)
- [Task B, Configuring Connections to TIBCO BusinessConnect, page 61](#)

Task A 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 the **Existing Studio Projects into Workspace** item. Click **Next**.
4. Click **Browse** next to the **Select archive file** field to navigate to the HIPAA_RTPatientEligibility_for_bw6.zip file. Click **Finish**.

The sample project is located in the
*BC_HOME*protocols\tibedi\samples\bw\HIPAA_RTPatientEligibility directory.

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

1. Expand **Module Descriptors** in the Project Explorer view.
2. Double-click **Module Properties**.

In the **User** tab, change the default value of the **BCHome** and **TPName** properties according to your environment.

Task B Configuring Connections to TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect on the Initiator computer:

1. In the Project Explorer view, expand **Resources** and double-click **BCConnection.bcResource**.
2. Configure the server information in the **Server Access** tab.
 - a. Select the JDBC driver you use to communicate with the BusinessConnect configuration store from the JDBC Driver drop-down list.
 - b. Type the URL for the configuration store in the JDBC URL field.
 - c. Type the configuration store user name and password in the DB User and Password fields.
3. Click **Update from Configuration Store** in the **Configuration** tab.
4. Select **X12** from the Protocol Name drop-down list.

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

5. Click the **Import Selected Business Protocol** button.

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

6. Click **Save**.

Configuring the Trading Partner Machine

The following sections describe how to configure TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream on the trading partner machine for running this tutorial.

Load Guidelines and XSDs

The first step in configuring the trading partner machine is to load the guidelines and XSDs. For this tutorial, the procedure for loading the guidelines and XSDs is the same on both the Trading Host machine and the Trading Partner machine. The example interface HIPAA-RT-00401-270-271.csx should be used on both the Trading Host machine and the Trading Partner machine.

Follow the steps explained in [Review Guidelines on page 47](#) and [Load Guidelines and XSDs on page 46](#).

Configure the Trading Host on the Trading Partner Machine

To configure the trading host on the trading partner machine, you need to create the trading host and configure the protocol for the trading host.

Create the Trading Host on the Partner Machine

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

1. Click **BusinessConnect>Participants** in the left panel.
2. Click **New** in the right panel.
3. Type **Company2** in the **Participant Name** field.
4. Select **Host** in the **Participant Type** drop-down list.
5. Click **OK**.
6. Check the **Active** checkbox.

Configure the Host Protocol on the Partner Machine

For this tutorial, you are going to disable all protocols except for the X12 protocol. The interchange qualifier and ID will then be configured for the X12 protocol.

Task A Enabling The X12 Protocol

1. Click the **Protocols** tab.
2. Check the **EZComm**, **Service**, **EDIFACT**, **TEXT**, **TRADACOMS**, and **Gateway** check boxes.
3. Click **Disable**. This will leave only X12 on the list.

Task B Setting The Interchange Qualifier and ID

1. Click the **X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field.
3. Click **Add New**.
4. In the Interchange Qualifier drop-down list, select **01**.
5. In the ID field, type **987654321**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **01-987654321**.
9. Click **Save** twice.

Configure the Trading Partner on the Trading Partner Machine

To configure the trading partner on the trading partner machine, you need to create the trading partner and configure the protocol for the trading partner.

Create the Trading Partner on the Partner Machine

To create the trading partner and enable the X12 protocol, do the following:

1. Click the **BusinessConnect>Participants** link in the left panel.
2. Click **New** in the right panel.
3. Type **Company1** in the Participant Name field.
4. Select **Partner** in the Participant Type drop-down list.
5. Click **OK**.

6. Check the **Active** checkbox.

Configure the Partner Protocol on the Partner Machine

To configure the protocol for the trading partner, perform these subtasks as describe below:

- Enable the X12 protocol
- Set the interchange qualifier and ID
- Enable outbound EDI validation
- Set the transport

Task A Enable the X12 Protocol

1. Click the **Protocols** tab.
2. Click **Enable**.
3. Check the **X12** checkbox.
4. Click **OK**.

Task B Set the Interchange Qualifier and ID

1. Click the **X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field
3. Click **Add New**.
4. In the Interchange Qualifier drop-down list, select **01**.
5. In the ID field, type **123456789**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **01-123456789**.
9. Click **Save**.

Task C Enable Outbound EDI Validation

To enable outbound EDI validation:

1. Click the **X12** link.
2. Locate the **Outbound** settings section at the bottom of the General tab.
3. Check **Enable EDI Validation**.

Task D Set the Transport

To set the transport:

1. Click the **Transports** tab.
2. Click **Add**.
3. Type **HTTP** in the Transport Name field.
4. Select **HTTP** from the Transport Type drop-down list.
5. Click **OK**.
6. In the URL field, type the name of the trading partner's machine. For example, *machine2.vidgets.com:8800/X12*.
7. Click **Save** three times.



Verify that the HTTP port 8800 is selected in BusinessConnect> Configuration> BusinessConnect>Public Process Configuration>Transports>HTTP, and verify that the Enable HTTP Transport is selected in the same dialog.

Configure the Business Agreement on the Trading Partner Machine

1. Click the **BusinessConnect>Business Agreements** link in the left panel.
2. Click **New** in the right panel.
3. Select the **Company2** radio button in the Host Party area and the **Company1** radio button in the Partner Party area.
4. Click **OK**.
5. Click **Add Protocol Bindings**.
6. Check the **X12** checkbox.
7. Click **OK**.
8. Click the **X12** link.
9. Select the **Transports** tab.
10. Verify that **HTTP** is selected in the Primary Transport drop-down list in the Outbound Transports for Host 'Company2' area.
11. Click **Save** twice.

Configure the Private Process on the Trading Partner Machine

TIBCO BusinessConnect EDI Protocol powered by Instream contains a simple program which when signaled will send response XML to TIBCO BusinessConnect. We are going to use this simple program as the private process on our trading partner machine and configure it to send a 271 response transaction.

You can locate the executable file that runs our simple private process here:

BC_HOME\protocols\tibedi\samples\scenario\receiver\edircv.exe.

To configure our private process to return a 271 response transaction, do the following:

1. Open the file edircv.tra using a text editor.
2. Edit the line

tibco.env.INSTALLATION_NAME=

specifying the name of your BusinessConnect installation on the trading partner machine. The installation name has the form *BC-domain name*.

3. Edit the line that begins with

tibco.env.XML_FILE= ,

specifying the XML filename as:

BC_HOME\protocols\tibedi\samples\sampleDocs\datafiles\4010_271.xml

4. Edit the line that begins with

tibco.env.OPID=

and specify operation ID as 00401/004010X092A1/270

5. Edit the line that begins with

tibco.env.TX_NAME=

and specify the transaction name as: 271.

6. Save your changes and exit the text editor.

Running the Tutorial

To run the tutorial, first perform these steps on the trading partner machine:

1. Create a deployment configuration and deploy and start TIBCO BusinessConnect.

During the deployment process, the default behavior is to start the deployed service. See *TIBCO BusinessConnect Internal Server Administration* for information on deployment.

2. Start the private process as follows:

```
— cd BC_HOME\protocols\tibedi\samples\scenario\receiver
— run edircv
```

Next perform the following steps on the host machine:

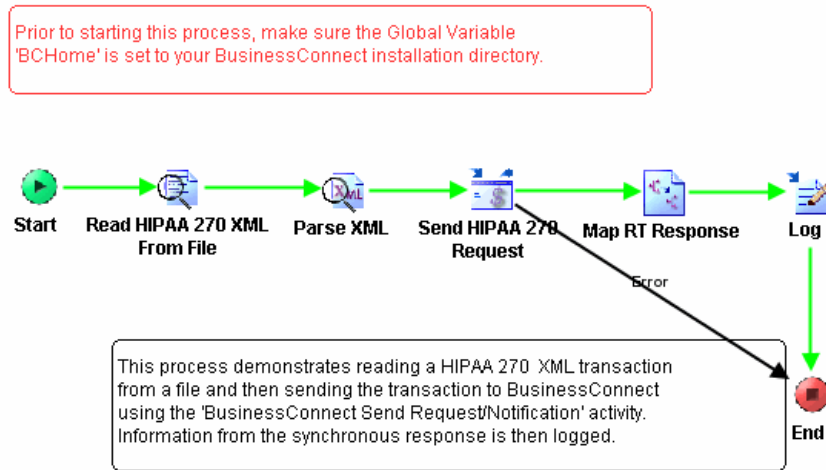
1. Create a deployment configuration and deploy and start TIBCO BusinessConnect.
2. Send the HIPAA 270 transaction from TIBCO Designer. See [Send the HIPAA 270 Transaction](#).
3. Check the results of sending the message. See [Expected Results on page 69](#) and [View the Audit Log on page 70](#).



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

Send the HIPAA 270 Transaction



Figure 12 Send 270 RT Request Process



The Send 270 RT Request process performs these tasks:

1. Reads a file containing XML data for a HIPAA 270 transaction.
2. Parses the 270 XML data.
3. Constructs a request message containing the 270 XML data and sends it to TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
4. Waits for a response to the request.
5. Logs information from the response.

To run the process, perform these steps:

1. Select the **Tester** tab.
2. Click **Start Testing Viewed Process** .
3. Check the **Send 270 RT Request** checkbox.
4. Check the **Validation Error Advisory** checkbox.
5. Click **Load Selected**.
6. Select the **Send 270 RT Request** process in the Jobs list.
7. Click **Create a Job** to start the process .

Expected Results

Once the 270 transaction is received by the host TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream:

1. The host TIBCO BusinessConnect converts the XML data to X12 data.
2. The host validates the X12 data against a 270 guideline.
3. The validated X12 data is bundled into an interchange for sending to the trading partner.
4. The X12 interchange is sent to the trading partner using HTTP.
5. The trading partner TIBCO BusinessConnect receives the X12 data.
6. The trading partner validates the X12 data against a 270 guideline.
7. The trading partner converts the X12 data to XML data.
8. The trading partner sends the XML data to its private process.
9. The trading partner's private process sends 271 XML data as a response to the trading partner's TIBCO BusinessConnect.
10. The trading partner converts the XML data to X12 data.
11. The trading partner validates the X12 data against a 271 guideline.
12. The validated X12 response is bundled into an interchange for sending to the host.
13. The X12 response interchange is sent to the host as part of the HTTP 200 OK response status.
14. The host validates the X12 response against a 271 guideline.
15. The host converts the X12 response into XML data.
16. The host sends the XML data response to its private process.
17. The host private process logs data from the XML response.

What you Can Observe

The Send HIPAA 270 Request activity of the Send 270 RT Request process should contain output that indicates the 270 transaction was successfully sent to the trading partner.

- The Map RT Response activity of the Send 270 RT Request process should contain output that indicates the 271 response was successfully received from the trading partner.
- The audit logs on the host and trading partner should contain entries for each processing state that occurred in TIBCO BusinessConnect. See [Viewing the Audit Log](#).

View the Audit Log

View the Audit Log on the Responder Machine

To view the audit log on the host or responder machines, do the following:

1. Click the **BusinessConnect>Log Viewer** link in the left panel.
2. Click the **X12** link in the right panel.

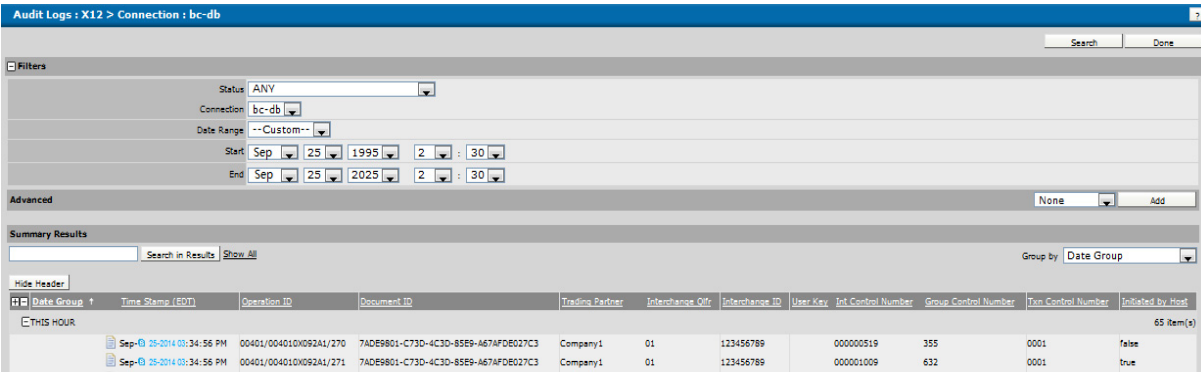
The default search settings are already selected:

- status ANY and
- date range One Day

3. Click **Search**.

The top level search dialog appears.

Figure 13 Top-Level Search on the Responder Machine



4. Click the **Details** icon in the left-most column of the Search Results area to view the details of the transaction.

Figure 14 contains the 271 response from the private process.

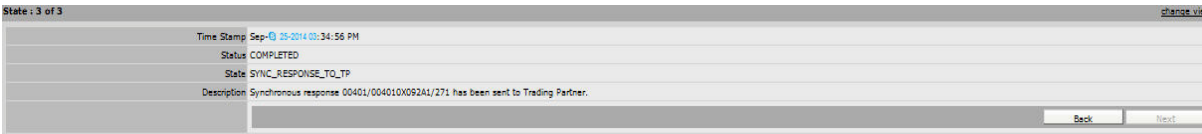
Figure 14 Transaction Details on the Responder Machine

States						change view
Time Stamp	Status	State	Description	Transmission ID	Transmission Time	
Sep-05 20-2014 03:34:56 PM	PENDING	REQUEST_FROM_PP	Received response EDI message from private process.			
Sep-05 20-2014 03:34:56 PM	PENDING	TXN_CONVERSION_COMPLETE	Synchronous response converted successfully.			
Sep-05 20-2014 03:34:56 PM	COMPLETED	SYNC_RESPONSE_TO_TP	Synchronous response 00401/004010X09241/271 has been sent to Trading Partner.			

5. Click on the Details icon next to the completed transaction SYNC_RESPONSE_TO_TP.

Figure 15 contains a transaction detail example for the 271 response returned to the initiator.

Figure 15 Responder: SYNC_RESPONSE_TO_TP



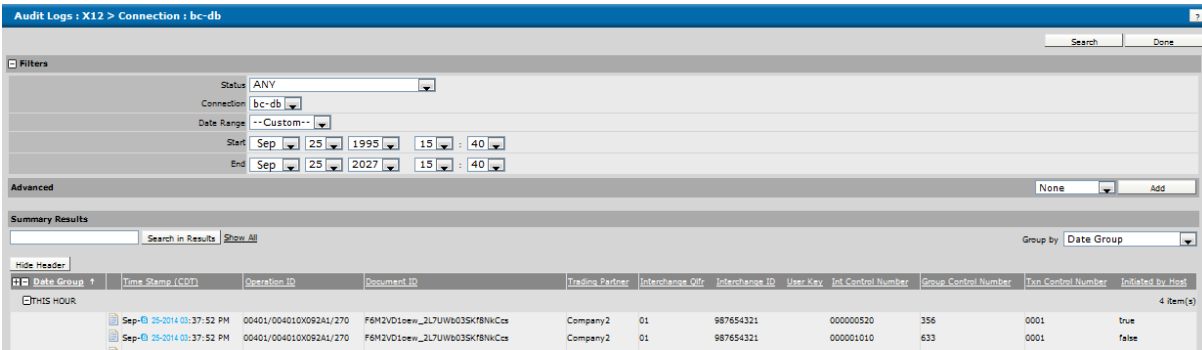
View the Audit Log on the Initiator Machine

- 1. Click the **BusinessConnect>Log Viewer** link in the left panel.
- 2. Click the X12 link in the right panel.

The default search settings are already selected:

- status ANY and
- date range One Day In the Date Range Criteria drop-down list, keep the selected value **Predefined Date Range**.
- 3. In the Previous drop-down list, keep the selected value **One Day**.
- 4. Click **Search**. The top level search dialog appears.

Figure 16 Top Level Search on the Initiator Machine



- 5. Click on the Details icon to see the log details for the transaction.
- 6. Figure 17 and contains the search details for the synchronous 270/271 transaction.

Figure 17 Transaction Details on the Initiator Machine: Synchronous Request

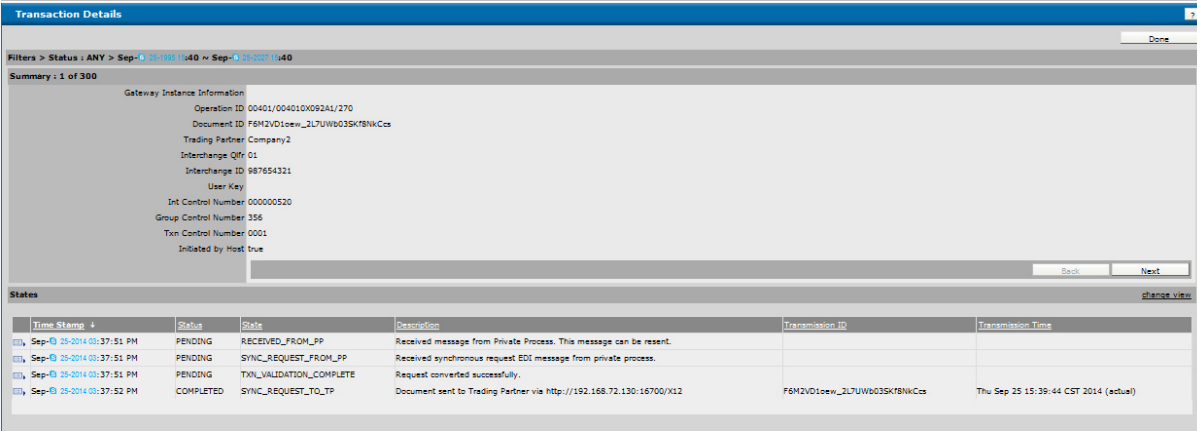
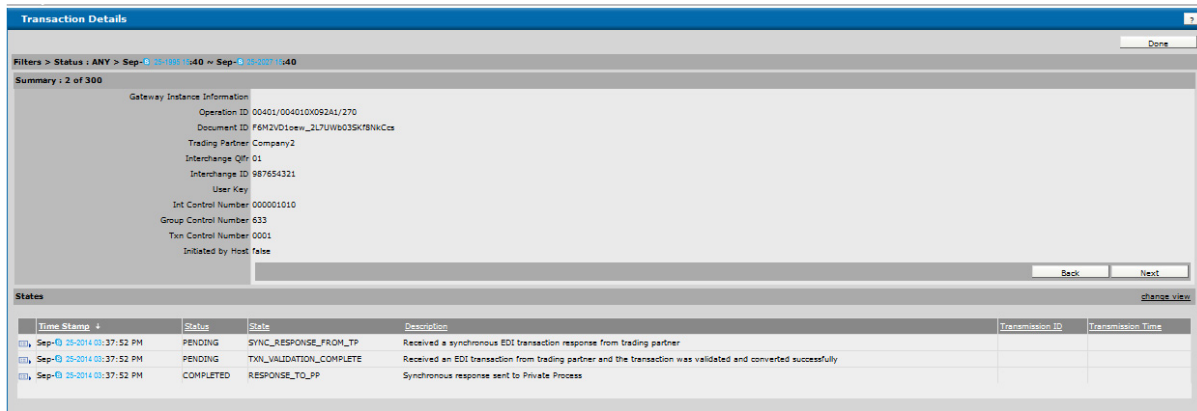
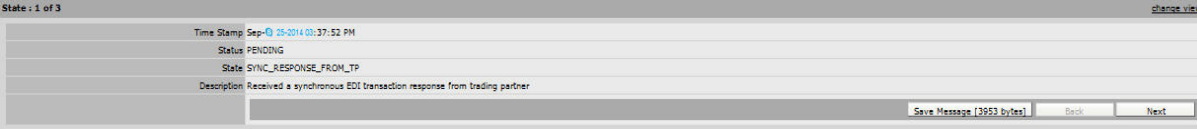


Figure 18 Transaction Details on the Initiator Machine: Synchronous Response



7. Click on the Details icon next to the completed transaction SYNC_REQUEST_TO_TP. The Initiator response detail appears.

Figure 19 SYNC_REQUEST_TO_TP



- Figure 19 contains a transaction detail example for a successfully completed 270 request.
8. Click on the Details icon next to the completed transaction RESPONSE_TO_PP.

Figure 20 RESPONSE_TO_PP

State : 3 of 3

change view

Time Stamp	Sep-02 25-2014 02:37:52 PM
Status	COMPLETED
State	RESPONSE_TO_PP
Description	Synchronous response sent to Private Process

Resend

Back

Next

Figure 20 contains a transaction detail example for a successfully completed 271 response.

Chapter 5

HIPAA Acknowledgements Tutorial

This chapter gives an overview of how to use TIBCO BusinessWorks with TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream when HIPAA acknowledgements are received for a transaction. In this tutorial you will learn how to configure the trading partner to respond with the HIPAA acknowledgements and how the private process can be structured to receive them.

Topics

- [Overview, page 76](#)
- [Prerequisites, page 78](#)
- [Configuring the Trading Host Machine, page 79](#)
- [Configuring The Trading Partner Machine, page 85](#)
- [Running the Tutorial, page 89](#)

Overview

In this tutorial you use TIBCO BusinessWorks and TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream running on one machine (the host) to send a HIPAA 837 Professional transaction to another machine running TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream (the trading partner). The receiving machine is configured to return TA1, 997, 824, and 277U acknowledgements.

The transaction set identifier information is as follows:

- The initiator machine:
 - Transaction set - 837
 - Group version - 4010X098A1
 - Interchange version - 00401
- The responder machine:
 - Transaction set - 824
 - Group version - 4050X166
 - Interchange version - 00405
 - Transaction set - 277
 - Group version - 3070X070A1
 - Interchange version - 00307

As you run the tutorial, the TIBCO software applications perform these tasks on the host machine:

1. TIBCO Designer or TIBCO Business Studio reads an XML file which contains the data for an 837 Professional transaction.
2. TIBCO Designer or TIBCO Business Studio parses the XML and send the XML data to TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
3. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream converts the XML data to X12 data.
4. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream validates the X12 data against an 837 Professional guideline.
5. The validated X12 data are bundled into an interchange for sending to the trading partner.
6. The software uses HTTP transport to send the interchange to the trading partner.

The TIBCO software applications perform these tasks on the trading partner machine:

1. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream receives the X12 interchange.
2. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream validates the X12 data against an 837 Professional guideline.
3. The software converts validated 837 Professional X12 data into XML data.
4. The software sends the converted 837 Professional XML data to the private process.
5. The software generates TA1, 997, 824, and 277U acknowledgements.
6. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream sends each acknowledgement to the host machine.

The following steps will then occur on the host machine:

1. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream validates each acknowledgement as it is received against the appropriate guideline.
2. The software converts the validated acknowledgement X12 data to XML data.
3. The software sends the converted XML data for each acknowledgement to the private process.
4. The private process receives each acknowledgement and logs the status data from each acknowledgement type.

The following sections describe how to set up and run the tutorial. The steps involved in setting up TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream to run the tutorial are:

- Authoring and Configuring EDI Guidelines
- Setting Up Trading Partners
- Creating Private Processes

Prerequisites

Before starting the tutorial, perform these tasks on the host and trading partner machines:

1. Install the following software packages:
 - a. TIBCO BusinessConnect (Server)
 - b. TIBCO BusinessConnect Palette
 - c. TIBCO BusinessConnect EDI Protocol powered by Instream
 - d. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream



For the exact versions of these software packages, refer to the file `TIB_bcedihed_n.n.n_readme.txt` for each release.

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains all of the guidelines needed by the tutorial. Therefore it is not necessary to use EDISIM to create and customize any guidelines for the tutorial.

2. If you are unfamiliar with HIPAA, read [Chapter 1, Introduction to HIPAA Protocol, on page 1](#).
3. If you are unfamiliar with the X12 standard, read Chapter 1, X12 Overview, in *TIBCO BusinessConnect EDI Protocol powered by Instream, X12 Configuration*.
4. Review Chapter 2, Managing EDI Guidelines, in *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*.
5. Review Chapter 3, Exchanging Documents, in *TIBCO BusinessConnect EDI Protocol powered by Instream, User's Guide*.
6. See the *TIBCO BusinessConnect Internal Server Administration* and the *TIBCO BusinessConnect Trading Partner Administration* for complete information on setting up and running TIBCO BusinessConnect.
7. To load the specific HIPAA guidelines for this tutorial, see [Load Guidelines and XSDs on page 79](#).

Configuring the Trading Host Machine

If you have installed and worked with the tutorial from [Chapter 4, HIPAA Transactions Tutorial, page 49](#), you already have configured properly most of the Host and Partner machines. This tutorial uses a different set of HIPAA guidelines that must be configured in the Operations Editor. Continue setting up the trading host machine by following the steps in the section [Load Guidelines and XSDs on page 79](#).

If you did not use the previous tutorial, perform the steps described in the following sections:

- [Create the Trading Host on the Host Machine on page 53](#)
- [Create the Trading Partner on the Host Machine on page 54](#)
- [Configure the Business Agreement on the Host Machine on page 56](#)

Load Guidelines and XSDs

This section describes how to load the guidelines and XSDs for the HIPAA X12 transactions and acknowledgements. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains sample configuration files for this tutorial.

Import the configuration files into the Operations Editor on the trading host machine as follows:

1. Using TIBCO Administrator, select **BusinessConnect > Operations Editor**.
2. Click the **Import** button.
3. Click **change.....** next to Upload Configuration Data File.
4. Click **Browse**.
5. Select `BC_HOME\protocols\tibedi\samples\interfaces\ HIPAA-Ack-00307-277.csx`
6. Click **Open**.
7. Click **OK**.
8. Click **Import**.
9. Repeat steps 4 through 10 selecting the file
`BC_HOME\protocols\tibedi\samples\interfaces\HIPAA-Ack-00405-824.csx`.
10. Click **Done**.

Configure the TIBCO BusinessWorks Private Processes on the Host Machine

TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains an example TIBCO BusinessWorks project which sends a HIPAA 837 Professional transaction to TIBCO BusinessConnect.

This section contains the following parts:

- [Processes Overview, page 80](#)
- [Configuring Private Process in TIBCO Designer, page 80](#)
- [Configuring Private Process in TIBCO Business Studio, page 83](#)

Processes Overview



Process names are different in TIBCO Designer and TIBCO Business Studio. For example, the Send HIPAA 837 Request process in TIBCO Designer equals the Send_HIPAA_837_Request process in TIBCO Business Studio. The following description takes processes in TIBCO Designer as an example.

The HIPAA_Acks project in the example contains the following processes:

- **Send HIPAA 837 Request** Reads a file containing the XML equivalent of an 837 Professional transaction and sends the XML data to TIBCO BusinessConnect.
- **Receive TA1 Interchange Acknowledgement** Activated when TIBCO BusinessConnect receives a TA1 Interchange Acknowledgement.
- **Receive 997 Functional Acknowledgement** Activated when TIBCO BusinessConnect receives a 997 Functional Acknowledgement.
- **Receive 824 Application Advice** Activated when TIBCO BusinessConnect receives an 824 HIPAA Acknowledgement.
- **Receive 277U Claim Status** Activated when TIBCO BusinessConnect receives a 277U HIPAA Acknowledgement.

Configuring Private Process in TIBCO Designer

To configure private process in TIBCO Designer:

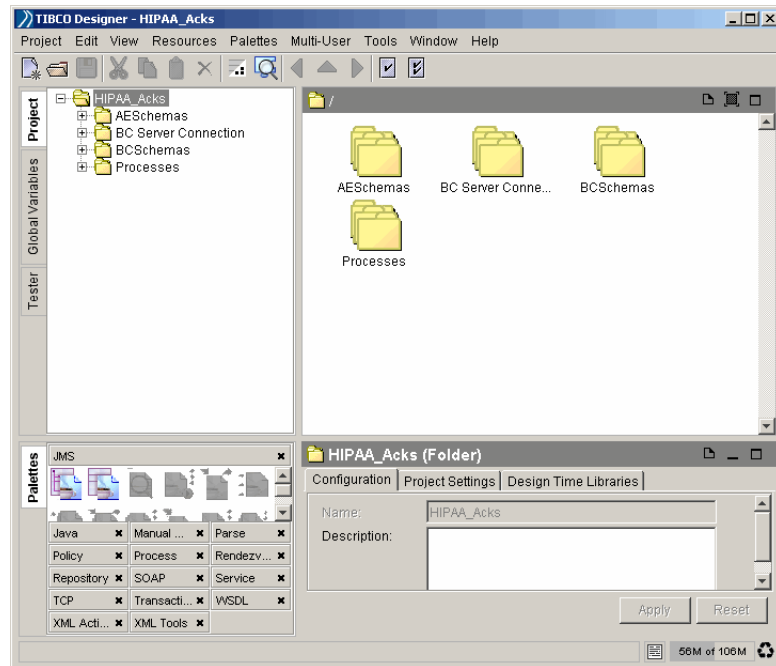
- [Task A, Opening the TIBCO ActiveMatrix BusinessWorks Project, page 81](#)
- [Task B, Configuring Connections to TIBCO BusinessConnect, page 82](#)

Task A Opening the TIBCO ActiveMatrix BusinessWorks Project

To open the example TIBCO BusinessWorks project in TIBCO Designer, do the following:

1. Start TIBCO Designer.
2. Click **New empty project**.
3. In the Save Project dialog, click **Cancel**.
4. Select **Project > Import Full Project**.
5. Click the **ZIP Archive** tab.
6. Navigate to this directory:
`BC_HOME\protocols\tibedi\samples\bw\HIPAA_Acks`
7. Select **HIPAA_Acks.zip** and click **Open**.
8. Click **OK**.
9. In the Options tab, select the **Try rename in case of name conflict** radio button.
10. Click **Apply**.
11. Select **Project > Save As**.
12. In the Project Directory file chooser, navigate to this directory:
`BC_HOME\protocols\tibedi\samples\bw\HIPAA_Acks`
13. Click **OK** twice.
14. Click **Yes** when a dialog appears asking to use the directory as a project directory. The zip archive file will be deleted. The following window is displayed.

Figure 21 TIBCO BusinessWorks Project



15. Click the **Global Variables** tab.
16. Set **BCHome** to your TIBCO BusinessConnect installation directory.
17. Save the project but do not exit TIBCO Designer.

Task B Configuring Connections to TIBCO BusinessConnect

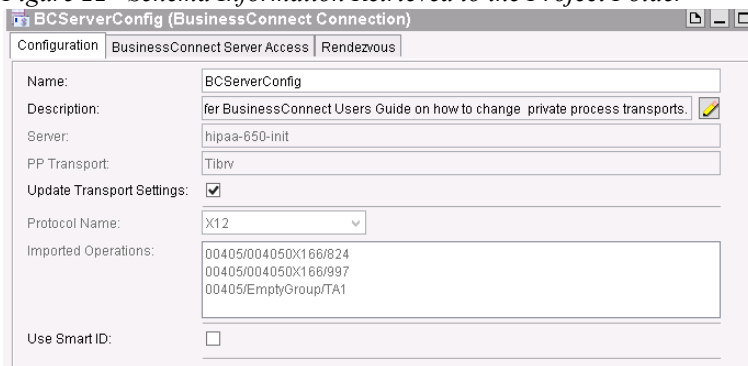
To configure connections to BusinessConnect, do the following:

1. Click the **Project** tab.
2. Expand the **HIPAA_Acks** folder.
3. Click the **BC Server Connection/BCServerConfig** BusinessConnect connection icon.
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 drop-down list.
 - b. Type the URL for the configuration store in the JDBC URL field.
 - c. Type the configuration store user name and password in the DB User and Password fields.

Click the **Apply** and **Save** buttons.

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 **X12** from the Protocol Name drop-down list.
8. Click the **Import Selected Business Protocol** button. TIBCO BusinessWorks schema information is retrieved from the TIBCO BusinessConnect configuration store and puts it in the BCSchemas project folder.
9. Click **Apply**.

Figure 22 Schema Information Retrieved to the Project Folder



10. Click the Save icon to save the project.

Configuring Private Process in TIBCO Business Studio

To configure the private process in TIBCO Business Studio:

- [Task A, Opening the TIBCO ActiveMatrix BusinessWorks Project, page 83](#)
- [Task B, Configuring Connections to TIBCO BusinessConnect, page 84](#)

Task A 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 the **Existing Studio Projects into Workspace** item. Click **Next**.

4. Click **Browse** next to the **Select archive file** field to navigate to the HIPAA_Acks_for_bw6.zip file. Click **Finish**.

The sample project is located in the *BC_HOME*\protocols\tibedi\samples\bw\HIPAA_Acks directory.

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

1. Expand **Module Descriptors** in the Project Explorer view.
2. Double-click **Module Properties**.
3. In the **User** tab, change the default value of the **BCHome** and **TPName** properties according to your environment.

Task B Configuring Connections to TIBCO BusinessConnect

To configure connections to TIBCO BusinessConnect on the Initiator computer:

1. In the Project Explorer view, expand **Resources** and double-click **BCConnection.bcResource**.
2. Configure the server information in the **Server Access** tab.
 - a. Select the JDBC driver you use to communicate with the BusinessConnect configuration store from the JDBC Driver drop-down list.
 - b. Type the URL for the configuration store in the JDBC URL field.
 - c. Type the configuration store user name and password in the DB User and Password fields.
 - d. Click **Save**.
3. Click **Update from Configuration Store** in the **Configuration** tab.
4. Select **X12** from the Protocol Name drop-down list.

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

5. Click the **Import Selected Business Protocol** button.

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

6. Click **Save**.

Configuring The Trading Partner Machine

Load Guidelines and XSDs

This section describes how to load the guidelines and XSDs for the HIPAA X12 transactions and acknowledgements. TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream contains sample configuration files for this tutorial.

Import the configuration files into the Operations Editor on the trading partner machine as follows:

1. Using TIBCO Administrator, select BusinessConnect > Operations Editor.
2. Click the Import button.
3. Click change..... next to Upload Configuration Data File.
4. Click Browse.
5. Select `BC_HOME\protocols\tibedi\samples\interfaces\HIPAA-Ack-00307-277.csx`
6. Click **Open**.
7. Click **OK**.
8. Click **Import**.
9. Repeat steps 2 through 8 selecting the file
`BC_HOME\protocols\tibedi\samples\interfaces\HIPAA-Ack-00405-824.csx` in step 5.
10. Click **Done**.

Configure the Trading Host on the Trading Partner Machine

If you have installed and worked with the tutorial from [Chapter 4, HIPAA Transactions Tutorial, page 49](#), you already have configured properly the Trading Host on the Trading Partner machine.

If you did not use the previous tutorial, follow the steps described in the following section:

- [Configure the Trading Host on the Trading Partner Machine on page 62](#)

Configure the Trading Partner on the Trading Partner Machine

If you have installed and worked with the tutorial from [Chapter 4, HIPAA Transactions Tutorial, page 49](#), you already have partially configured the Trading Partner on the Trading Partner machine. In this case, skip to [Task E, Configure the HIPAA Acknowledgements, on page 88](#).

If you did not use the previous tutorial, follow the steps described in the following sections.

Create the Trading Partner on the Partner Machine

To create the trading partner and enable the X12 protocol, do the following:

1. Click the **BusinessConnect>Participants** link in the left panel.
2. Click **New** in the right panel.
3. Type **Company1** in the Participant Name field.
4. Select **Partner** in the Participant Type drop-down list.
5. Click **OK**.
6. Check the **Active** checkbox.

Configure the Partner Protocol on the Partner Machine

To configure the protocol for the trading partner, perform these subtasks as describe below:

- Enable the X12 protocol
- Set the interchange qualifier and ID
- Enable outbound EDI validation
- Set the transport

Task A Enable the X12 Protocol

1. Click the **Protocols** tab.
2. Click **Enable**.
3. Check the **X12** checkbox.
4. Click **OK**.

Task B Set the Interchange Qualifier and ID

1. Click the **X12** link.
2. Click the **Add New** link next to the Default Interchange Qualifier ID field
3. Click **Add New**.
4. In the Interchange Qualifier drop-down list, select **01**.
5. In the ID field, type **123456789**.
6. Click **Save**.
7. Click **OK**.
8. In the Default Interchange Qualifier ID drop-down list, select **01-123456789**.
9. Click **Save**.

Task C Enable Outbound EDI Validation

To enable outbound EDI validation:

1. Click the **X12** link.
2. Locate the **Outbound** settings section at the bottom of the General tab.
3. Check **Enable EDI Validation**.

Task D Set the Transport

To set the transport:

1. Click the **Transports** tab.
2. Click **Add**.
3. Type **HTTP** in the Transport Name field.
4. Select **HTTP** from the Transport Type drop-down list.
5. Click **OK**.
6. In the URL field, type the name of the trading partner's machine. For example, *machine2.vidgets.com:8800/X12*.
7. Click **Save** three times.



Verify that the HTTP port 8800 is selected for in BusinessConnect>Configuration>BusinessConnect>Public Process Configuration>Transports>HTTP, and verify that the Enable HTTP Transport is selected in the same dialog.

Task E Configure the HIPAA Acknowledgements

To enable HIPAA acknowledgements:

1. Select BusinessConnect>Participants>Company1>Protocols.
2. Click on the **X12** link.
3. Click the **HIPAA Acknowledgement** tab.



To learn about HIPAA acknowledgements level, see [, HIPAA Acknowledgement Properties, on page 43.](#)

4. Select **Always** in the drop-down list for 824 Application Advice Creation.
5. Select **004050X166** in the drop down list for 824 Application Advice Version.
6. Select **Always** in the drop-down list for 277 Health Care Notification Creation.
7. Select **003070X070A1 - Unsolicited Claim Status** in the drop down list for 277 Health Care Notification Version.
8. Click **Save** twice.

Configure the Business Agreement On The Trading Partner Machine

1. Click the **BusinessConnect>Business Agreements** link in the left panel.
2. Click **New** in the right panel.
3. Select the **Company2** radio button in the Host Party area and the **Company1** radio button in the Partner Party area.
4. Click **OK**.
5. Click **Add Protocol Bindings**.
6. Check the **X12** checkbox.
7. Click **OK**.
8. Click the **X12** link.
9. Select the **Transports** tab.
10. Verify that **HTTP** is selected in the Primary Transport drop-down list in the Outbound Transports for Host 'Company2' area.
11. Click **Save** two times.

Configure the Private Process On The Trading Partner Machine

For this tutorial, it is not necessary to run a private process on the trading partner machine.

Running the Tutorial

To run the tutorial, first perform this step on the trading partner machine:

1. Create a deployment configuration and deploy and start TIBCO BusinessConnect.
During the deployment process, the default behavior is to start the deployed service. See [TIBCO BusinessConnect Installation, Migration, and Deployment Guide](#) for information on deployment.

Next perform the following steps on the host machine:

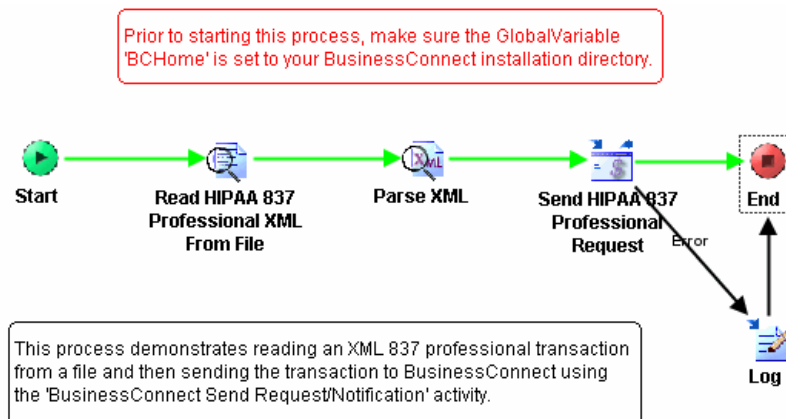
1. Create a deployment configuration and deploy and start TIBCO BusinessConnect.
2. Send the HIPAA 837 Professional transaction from TIBCO Designer or TIBCO Business Studio. See [Send the HIPAA 837 Professional Transaction](#).
3. Check the results of sending the message. See [Expected Results on page 90](#) and [View the Audit Log on page 92](#).



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

Send the HIPAA 837 Professional Transaction

Figure 23 Send HIPAA 837 Request Process





The Send HIPAA 837 Request process performs these tasks:

1. Reads a file containing XML data for a HIPAA 837 Professional transaction.
2. Parses the 837 Professional XML.

3. Constructs a request message containing the 837 Professional XML data and sends it to TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream.
4. Logs information if an error occurs sending the request.

Run the Tutorial on the Host Machine

To run the process, perform these steps:

1. Select the **Tester** tab.
2. Click **Start Testing Viewed Process.** 
3. Check the **Send HIPAA 837 Request** checkbox.
4. Check the following checkboxes:
 - **Receive 277U Claim Status**
 - **Receive 824 Application Advice**
 - **Receive 997 Functional Acknowledgement**
 - **Receive TA1 Interchange Acknowledgement**
5. Click **Load Selected.**
6. Select the **Send HIPAA 837 Request** process in the Jobs list.
7. Click **Create a Job** to start the process. 



The processes that you check in step 4 are all similar in nature. They wait for their respective acknowledgement type data to be returned from BusinessConnect and then log status information contained in the acknowledgement.

Expected Results

Once the 837 transaction is received by the host TIBCO BusinessConnect EDI Protocol HIPAA Edition powered by Instream:

1. The host BusinessConnect converts the XML data to X12 data.
2. The host BusinessConnect validates the X12 data against an 837 Professional guideline.
3. The validated X12 data is bundled into an interchange for sending to the trading partner.
4. The X12 interchange is sent to the trading partner using HTTP.
5. The trading partner BusinessConnect receives the X12 data.

6. The trading partner BusinessConnect validates the X12 data against an 837 Professional guideline.
7. The trading partner BusinessConnect converts the X12 data to XML data.
8. The trading partner BusinessConnect generates TA1, 997, 824, and 277U X12 acknowledgements.
9. The generated X12 acknowledgements are returned to the host BusinessConnect.
10. The trading partner BusinessConnect sends the 837 XML data to its private process.
11. The host BusinessConnect validates each X12 acknowledgement it receives against the appropriate guideline.
12. The host BusinessConnect converts each X12 acknowledgement into XML data.
13. The host BusinessConnect sends the XML data for each acknowledgement to its private process.
14. The host private process logs the status from each XML data acknowledgement.

What You Can Observe

The Send HIPAA 837 Professional Request activity of the Send HIPAA 837 Request process should contain output that indicates the 837 Professional transaction was successfully sent to the trading partner.

- The audit logs on the host and trading partner should contain entries for each processing state that occurred in TIBCO BusinessConnect. See [Viewing the Audit Log](#).

View the Audit Log

To view the audit log on the host or trading partner machines, do the following:

- 1. Click the **BusinessConnect>Log Viewer** link in the left panel.
- 2. Click the X12 link in the right panel.

The default search settings are already selected:

- status ANY and
- date range One Day

- 3. Click **Search**.
- 4. Compare the audit log entries on your initiator with [Figure 24](#). It contains the entries for the TA1, 997, 824, and 277U received from the trading partner. It also contains entries for the 997s and TA1s sent back to the trading partner to acknowledge receipt of the 824 and 277U acks.

Figure 24 Initiator Top Level Search

Summary Results

Search in Results

Show All

Group by

Date Group

Hide Header

Date Group	Time Stamp (CDT)	Operation ID	Document ID	Trading Partner	Interchange Ctr	Interchange ID	User Key	Int Control Number	Group Control Number	Trn Control Number	Initiated by Host
THIS HOUR											49 Item(s)
Sep-01 25-2014 02:28:39 PM	00307/003070X070A1/997	37446444-F604-416D-83D0-ECEB4FADD092	Company2	01	987654321	000000518	354	0001	0001	true	
Sep-01 25-2014 02:28:39 PM	EDI/Inbound	37446444-F604-416D-83D0-ECEB4FADD092	Company2	NA	NA	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:39 PM	EDI/Inbound/Interchange	37446444-F604-416D-83D0-ECEB4FADD092	Company2	01	987654321	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:38 PM	00307/003070X070A1/277	37446444-F604-416D-83D0-ECEB4FADD092	Company2	01	987654321	000001008	631	0001	0001	false	
Sep-01 25-2014 02:28:38 PM	00307/EmptyGroup/TA1	37446444-F604-416D-83D0-ECEB4FADD092	Company2	01	987654321	000000517	NA	NA	NA	true	
Sep-01 25-2014 02:28:38 PM	EDI/Inbound	3C98DE79-0199-44EC-964D-648B8CD3F88	Company2	NA	NA	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:38 PM	EDI/Inbound/Interchange	3C98DE79-0199-44EC-964D-648B8CD3F88	Company2	01	987654321	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:37 PM	00405/004050X166/824	3C98DE79-0199-44EC-964D-648B8CD3F88	Company2	01	987654321	000001007	630	0001	0001	false	
Sep-01 25-2014 02:28:37 PM	00405/004050X166/997	3C98DE79-0199-44EC-964D-648B8CD3F88	Company2	01	987654321	000000516	353	0001	0001	true	
Sep-01 25-2014 02:28:37 PM	00405/EmptyGroup/TA1	3C98DE79-0199-44EC-964D-648B8CD3F88	Company2	01	987654321	000000515	NA	NA	NA	true	
Sep-01 25-2014 02:28:36 PM	00401/004010X098A1/837	1	Company2	01	987654321	000000514	352	0001	0001	true	
Sep-01 25-2014 02:28:36 PM	00401/004010X098A1/997	03837C7A-BC05-468E-862D-9537E75D6862	Company2	01	987654321	000001006	629	0001	0001	false	
Sep-01 25-2014 02:28:36 PM	00401/EmptyGroup/TA1	D0E61FFE-D972-4613-80C3-D8EC881E2D44	Company2	01	987654321	000001005	NA	NA	NA	false	
Sep-01 25-2014 02:28:36 PM	EDI/Inbound	03837C7A-BC05-468E-862D-9537E75D6862	Company2	NA	NA	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:36 PM	EDI/Inbound	D0E61FFE-D972-4613-80C3-D8EC881E2D44	Company2	NA	NA	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:36 PM	EDI/Inbound/Interchange	03837C7A-BC05-468E-862D-9537E75D6862	Company2	01	987654321	NA	NA	NA	NA	false	
Sep-01 25-2014 02:28:36 PM	EDI/Inbound/Interchange	D0E61FFE-D972-4613-80C3-D8EC881E2D44	Company2	01	987654321	NA	NA	NA	NA	false	

- 5. Compare the audit log entries on your initiator with [Figure 25](#). It contains entries for the 837 received from the host and the TA1, 997, 824, and 277U acks returned to the host. There are also entries for the TA1s and 997s received as acknowledgements to the 824 and 277U acks.

Figure 25 Responder Top Level Search

Summary Results											
<div><div></div><div>Search in Results</div><div>Show All</div></div>		Group by <div>Date Group</div>									
<div>Hide Header</div>											
<div><div></div><div>Date Group</div><div></div></div>	Time Stamp (EDT)	Operation ID	Document ID	Trading Partner	Interchange Off	Interchange ID	User Key	Int. Control Number	Group Control Number	Txn Control Number	Initiated by Host
THIS HOUR											
<div><div></div><div>Sep-0</div><div>25-2014 02:30:32 PM</div></div>	00307/003070X070A1/997	40F59E73-33F9-4C5F-87A4-0EFD9F85B066	Company1	01	123456789	000000518	354	0001		false	63 Item(s)
<div><div></div><div>Sep-0</div><div>25-2014 02:30:32 PM</div></div>	00307/EmptyGroup/TA1	603F6C2E-05EE-4814-8333-C811C892F83F	Company1	01	123456789	000000517	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:32 PM</div></div>	EDU/Inbound	40F59E73-33F9-4C5F-87A4-0EFD9F85B066	Company1	NA	NA	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:32 PM</div></div>	EDU/Inbound	603F6C2E-05EE-4814-8333-C811C892F83F	Company1	NA	NA	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:32 PM</div></div>	EDU/Inbound/Interchange	40F59E73-33F9-4C5F-87A4-0EFD9F85B066	Company1	01	123456789	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:32 PM</div></div>	EDU/Inbound/Interchange	603F6C2E-05EE-4814-8333-C811C892F83F	Company1	01	123456789	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	00405/004050X166/997	56C70FA3-F92D-417D-9207-2858429EE805	Company1	01	123456789	000000516	353	0001		false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	00405/EmptyGroup/TA1	80B2C21E-217D-4F4F-8CFF-1A27B8889029	Company1	01	123456789	000000515	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	EDU/Inbound	56C70FA3-F92D-417D-9207-2858429EE805	Company1	NA	NA	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	EDU/Inbound	88462446-2836-454B-80E4-028670EC920F	Company1	NA	NA	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	EDU/Inbound	80B2C21E-217D-4F4F-8CFF-1A27B8889029	Company1	NA	NA	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	EDU/Inbound/Interchange	56C70FA3-F92D-417D-9207-2858429EE805	Company1	01	123456789	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	EDU/Inbound/Interchange	88462446-2836-454B-80E4-028670EC920F	Company1	01	123456789	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:31 PM</div></div>	EDU/Inbound/Interchange	80B2C21E-217D-4F4F-8CFF-1A27B8889029	Company1	01	123456789	NA	NA	NA	NA	false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:30 PM</div></div>	00307/003070X070A1/277	88462446-2836-454B-80E4-028670EC920F	Company1	01	123456789	000001008	631	0001		true	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:29 PM</div></div>	00401/004010X098A1/997	88462446-2836-454B-80E4-028670EC920F	Company1	01	123456789	000001006	629	0001		true	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:29 PM</div></div>	00405/004050X166/824	88462446-2836-454B-80E4-028670EC920F	Company1	01	123456789	000001007	630	0001		true	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:28 PM</div></div>	00401/004010X098A1/837	88462446-2836-454B-80E4-028670EC920F	Company1	01	123456789	000000514	352	0001		false	
<div><div></div><div>Sep-0</div><div>25-2014 02:30:28 PM</div></div>	00401/EmptyGroup/TA1	88462446-2836-454B-80E4-028670EC920F	Company1	01	123456789	000001005	NA	NA		true	

- Click the **Details** icon in the left-most column of the Search Results area to view the details of each transaction.

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