

Sterling Standards Library



Using ASC X12

Version 8.0.3, for Sterling B2B Integrator 5.2.3

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Note

Before using this information and the product it supports, read the information in "Notices" on page 53.

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Chapter 1. Using ASC X12 with the Sterling B2B Integrator

ASC X12 is an electronic data exchange standard that is used in multiple business domains including finance, government, health care, insurance, transportation, and others.

This table describes how the Sterling B2B Integrator supports ASC X12:

Functionality	Details	Action You Need to Take to Implement ASC X12
Services	<ul style="list-style-type: none"> • EDI Enveloping service translates messages, determines which business processes need to run to apply EDI envelopes, and starts those business processes. • EDI Deenveloping service removes the envelopes from inbound messages. 	Configure the EDI Enveloping service in Sterling B2B Integrator Graphic Process Modeler (GPM). Note: As a way to help reduce the number of envelopes you need to create and use, the EDI Enveloping and EDI Deenvelope services support use of an asterisk (*) as a wildcard character in mandatory envelope fields for X12. By using wildcards, you can set up one set of envelopes that can be used for multiple trading partners. If certain trading partners have specific requirements, you can still have envelopes that pertain just to them, and the EDI Enveloping service chooses the envelope that is the best match. In other words, the envelope that has the most matches to specific fields in the data (for example Receiver ID, Receiver ID Qualifier), is the one selected.
Envelopes	<ul style="list-style-type: none"> • Inbound ASC X12 envelope wizards to implement inbound ASC X12. • Outbound ASC X12 envelope wizards to implement outbound ASC X12. 	<ul style="list-style-type: none"> • Create the appropriate ASC X12 envelopes for the ASC X12 messages you are sending and receiving.

Functionality	Details	Action You Need to Take to Implement ASC X12
Predefined business processes	<ul style="list-style-type: none"> For inbound data, we recommend that you use the EDIDevelope business process unless you know the input data will only contain X12 data (in this scenario, you can use the X12DevelopeUnified business process directly to gain a performance benefit). The EDIDevelope business process attempts to determine the standard of each interchange and start the appropriate business process for each type. If the data is X12, it starts the X12DevelopeUnified business process. For outbound data, the X12EnvelopeUnified business process applies an ASC X12 envelope to one or more ASC X12 messages and then uses the envelope data to translate and process them. 	Configure the predefined business processes as necessary.
IBM Sterling B2B Integrator Map Editor	<ul style="list-style-type: none"> Sterling B2B Integrator Map Editor wizard enables you to generate a file layout for you using the ASC X12 message that you select. Included in the ASC X12 map are groups, segments, composite elements, and elements that are defined by ASC X12. Properties dialog boxes that enable you to define and modify EDI map components for ASC X12. Autolink function automatically creates links between input and output fields that have the same name or business name. This function can be used with any data format. Additional mapping operations as needed. 	<ul style="list-style-type: none"> Download Sterling B2B Integrator Map Editor. Create a map or maps to translate your ASC X12 messages.
Correlation Search	Search by ASC X12 information.	Use the EDI Correlation search functionality to search for ASC X12 correlation information.
Reports	Report by ASC X12 standard.	Use the EDI Translation Detail report to search for details of inbound and outbound ASC X12 messages and easily create useful reports on your inbound and outbound ASC X12 messaging.

Functionality	Details	Action You Need to Take to Implement ASC X12
HIPAA (Health Insurance Portability and Accountability Act) Compliance Check for Inbound and Outbound Processing	<p>Sterling B2B Integrator provides validation of inbound and outbound data based on industry-standard HIPAA rules defined for level 1 through level 6. The following criteria apply:</p> <ul style="list-style-type: none"> • The inbound and outbound ANSI X12 ST/SE Transaction Level document envelopes specify the validation level to be used. The validation maps provided with Sterling B2B Integrator contain validations for HIPAA levels 1 through 6, but the trading partner setting controls which validations are actually applied. • Code lists for HIPAA compliance levels 1 through 4 and level 6 are installed automatically with Sterling B2B Integrator. The Sterling B2B Integrator Map Editor validates against these code lists. • If you are not using a WTX map, you cannot select Level 1 or 2. To use Level 1 or 2 with a Sterling B2B Integrator map and translator, you must perform the check using your compliance map instead of a predefined map. • Code lists for HIPAA compliance level 5 are maintained by external suppliers and must be obtained and imported into the Sterling B2B Integrator Map Editor before you can validate against them. After import, the Sterling B2B Integrator Map Editor validates against these code lists. 	HIPAA translations and compliance checks are performed as part of the ASC X12 processing. You need a license key to access HIPAA functionality in Sterling B2B Integrator.

Prerequisite for Using ASC X12

The audience using this software should be familiar with Sterling B2B Integrator and the ASC X12 standard.

Note: This documentation is not intended to explain the ASC X12 standard.

Use ASC X12 with Sterling B2B Integrator

About this task

To use ASC X12 with Sterling B2B Integrator, you must complete the following tasks:

Procedure

1. Create inbound and outbound ASC X12 envelopes.
2. Use the predefined ASC X12 business processes or create your own business processes.
3. Create any necessary code lists and maintain them as needed.
4. Create your ASC X12 map or maps, linking your proprietary file format to the appropriate ASC X12 message format.
5. To track ASC X12 messages, use the EDI Correlation Search functionality.
6. To report on inbound and outbound ASC X12 message flow, use the EDI Translation Detail report features.

Chapter 2. ASC X12 Business Processes

To help you accomplish your business goals, Sterling B2B Integrator provides two predefined business processes that are used by Sterling B2B Integrator to implement ASC X12 processing: X12EnvelopeUnified and X12DeenvelopeUnified.

The following table lists business goals for the predefined X12 business processes:

Business Process	Business Goals
X12DeenvelopeUnified	Extracts EDI documents from an ASC X12 interchange and processes them using the corresponding envelope definitions.
X12EnvelopeUnified	Applies an X12 envelope to one or more X12 messages and then uses the envelope data to translate and process them.

X12DeenvelopeUnified Business Process

If you are only processing X12 data, the X12DeenvelopeUnified business process can be called directly. If the input data contains mixed data (that is, some X12 and some EDIFACT), you must use the EDIDeenvelope business process, which will extract each type of data into separate documents and invoke the appropriate business process for each (for example, calling X12DeenvelopeUnified to process X12 data and calling EDIFACTDeenvelopeUnified to process EDIFACT data).

If exceptions occur during the deenvelope process, Sterling B2B Integrator generates an EDI Compliance Report.

The following scenario shows how the EDIDeenvelope business process can deenvelope ASC X12 documents:

1. The File System adapter collects a file from an input collection folder and invokes the EDIDeenvelope business process.
2. The EDI Deenveloping service determines that the file contains an X12 document and starts the X12DeenvelopeUnified business process.
3. The X12DeenvelopeUnified business process calls the X12Deenvelope service to process the document.

Note: If the X12Deenvelope service does not find a matching envelope definition, the business process stops. Sterling B2B Integrator generates an EDI Compliance Report that describes the reason that the X12DeenvelopeUnified business process could not locate the envelope.

Note: Before using the EDIDeenvelope or X12DeenvelopeUnified business process, you must create the necessary envelope definitions in the user interface (**Trading Partner > Document Envelopes > Envelopes**).

X12EnvelopeUnified Business Process

The X12EnvelopeUnified business process is initiated when it is called by another business process or the EDI Enveloping service.

The X12EnvelopeUnified business process performs the following primary activities:

1. Starting with one or more EDI documents, the EDI Enveloping service applies envelope properties at the document level to each document.
2. The X12 Envelope service takes one or more transaction sets and applies a functional group envelope.
3. The X12 Envelope service takes a functional group and applies the interchange-level envelope and searches for a matching contract.
4. Using the interchange-level envelope data, the service either looks up a contract or runs a business process.

Before Using the X12EnvelopeUnified Business Process

About this task

Before you use the X12DeenvelopeUnified business process, complete the following task:

Procedure

1. Create inbound envelopes for your X12 messages.
2. Create outbound envelopes for your X12 messages.

Chapter 3. ASC X12 Enveloping Overview

A *document envelope* consists of control information that enables organizations to effectively exchange messages. This information is added in headers and trailers to messages. Document envelopes are specific to the message protocol used. Creating document envelopes is necessary to use ASC X12 with your trading partners.

During the envelope creation process, you need to assign the envelope name, description, and parameters, such as unique identification numbers (control numbers).

Note: Each time a user adds, modifies, or deletes an envelope, the action is logged to create an audit trail based on the user who performed the event.

Each envelope type has a specific properties page for the envelope and other pages that enable you to specify additional requirements for the envelope. Properties for the following envelopes can be found in this documentation:

- ASC X12 Inbound ISA IEA Envelope Properties, Interchange Level
- ASC X12 Inbound GS GE Envelope Properties, Group Level
- ASC X12 Inbound ST SE Envelope Properties, Transaction Level
- ASC X12 Outbound ISA IEA Envelope Properties, Interchange Level
- ASC X12 Outbound GS GE Envelope Properties, Group Level
- ASC X12 Outbound ST SE Envelope Properties, Transaction Level

Document Lifespan

In previous releases, the document lifespan default was zero so that when the workflow expired, all associated documents were purged/archived with the workflow. Now the lifespan for ASC X12 documents awaiting acknowledgement is configurable, and the default is 30 days.

Note: You can change the default lifespan by editing the `document.lifespan` property in the `enveloping.properties` file. The document lifespan of the outbound document is automatically reset to zero after the acknowledgement for the document is received or if the user manually accepts the acknowledgement.

Envelope Structure

Sterling B2B Integrator supports the use of many EDI protocols, including ASC X12. The ASC X12 protocol has three levels of envelopes:

- Interchange (outermost) – Contains an interchange header and trailer, and all the data sent from one sender to one receiver in the same transmission.
- Functional group (middle) – Contains a group header and trailer that surrounds a group of transaction sets of the same type.
- Transaction set (innermost) – Contains the standard message surrounded by a header and trailer record.

Base Envelopes

Sterling B2B Integrator uses a concept of a *base envelope* as a starting point to create a new envelope. The base envelope maintains a link to the new envelope that

inherited its properties. If you modify the base envelope, all related envelopes (that is, ones that inherited the base envelope properties) change, as well.

Note: If you plan to create many envelopes using base envelopes, it is recommended that you do not use the base envelopes in production. You may want to document how your base envelopes are linked to other envelopes.

The default envelope is the version of the document envelope that Sterling B2B Integrator uses. You can specify a default envelope only if there are two or more versions of the same envelope. One version must be selected as the default.

Types of Envelopes

There are many types of envelopes provided in Sterling B2B Integrator. Each envelope is defined by its envelope properties. These predefined enveloping and deenveloping business processes are available for you to incorporate into your own business processes. Envelope parameters specify whether the document is inbound or outbound:

- *Inbound envelopes* identify documents that come into Sterling B2B Integrator so they can be properly routed. Inbound envelopes also give you the option to translate documents when you choose to check documents for compliance. By choosing to translate documents from within the envelope, you can reduce document processing time because you do not need to specify a separate Translation service step in the business process.
- *Outbound envelopes* identify documents so that they can be sent to and received by trading partners.

Create an ASC X12 Envelope

About this task

To create a new envelope using the Sterling B2B Integrator:

Procedure

1. From the **Administration** menu, select **Trading Partner > Document Envelopes > Envelopes**.
2. Under Create, next to New Envelope, click **Go!**
3. On the Envelope Standards page, select **ASC X12** and click **Next**.
4. Select the level of envelope you want to create, including inbound or outbound, and click **Next**.
5. Do one of the following:
 - To create this envelope from a base envelope, select the Base envelope from the Select Envelope list, and click **Next**.

Note: All the properties are pre-filled but you can update them as needed.

- To create a new envelope, select the Not Applicable from the Select Envelope list, and click **Next**.
6. On the Name page, type a unique name for the envelope, and a description or comments, then click **Next**.
 7. Complete the properties for the envelope as necessary and click **Next** after each page until you reach the confirm page. Required fields are highlighted in blue.
 8. Click **Finish** to add the envelope.
 9. Click **Return** to continue.

Update An ASC X12 Envelope

About this task

Sterling B2B Integrator enables you to modify any information in your envelopes, except the name of the envelope.

To update envelope properties:

Procedure

1. From the **Administration** menu, select **Trading Partner > Document Envelopes > Envelopes**.
2. Find the envelope using the Search or List function.
3. From the list of envelopes, click **source manager** next to the envelope you want to update.
4. Click **edit** next to the envelope you want to update.
5. Update envelope properties and settings as necessary, clicking **Next** to continue.
6. Click **Finish** to update the envelope.
7. Click **Return** to continue.

Delete an ASC X12 Envelope

About this task

To delete an individual envelope or all versions of an envelope:

Procedure

1. From the **Administration** menu, select **Trading Partner > Document Envelopes > Envelopes**.
2. Find the envelope using the Search or List function.
3. Next to the envelope you want to delete, click **source manager**.
4. In Envelope Source Manager page, do one of the following:
 - To delete an individual envelope:
 - Next to the version, under Delete, select the check box.
 - Next to Delete Selected Versions, click **Go!**.
 - To delete all versions of this envelope, next to Delete All Versions, click **Go!**.

Chapter 4. ASC X12 Inbound ISA IEA Envelope Properties, Interchange Level

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (the wildcard value is an (*) asterisk). For Inbound envelopes, a wildcard value in the envelope matches any value in the input document, while an empty value in the envelope matches only an empty value in the input document. For Outbound envelopes, a wildcard value is equivalent to an empty value in the envelope.

The following table describes X12 inbound ISA IEA envelope properties at the interchange level:

Field	Description
-------	-------------

* Sender ID Qualifier	Coded qualifier of the sender ID as it should appear on the message group header sent to this company or division. Valid value is two standard characters. Optional.
------------------------------	--

* Sender ID	Coded identifier of the company or division sending the interchange. Valid value is 12 standard characters. Optional.
--------------------	---

* Sender Organization	The sender organization. Valid value is 15 standard characters. Optional.
------------------------------	---

* Receiver ID Qualifier	Coded qualifier of the sender ID as it should appear on the message group header received from a company or division. Valid value is two standard characters. Optional.
--------------------------------	---

* Receiver ID	Coded identifier of the company or division receiving the interchange. Valid value is 15 standard characters. Required.
----------------------	---

* Receiver Organization	The receiver organization. Valid value is 15 standard characters. Optional.
--------------------------------	---

* Interchange Control Version Number	Version number of this control interchange. Valid value is five standard characters. Required.
---	--

Use global control number	Whether this envelope definition must use a global transaction set number to uniquely identify message group headers. Valid values are:
----------------------------------	---

- Yes, indicates that you want to use a global number and you will be asked to select one that has already been created
- Yes (and generate name from data), indicates that the global number name will be generated using values from the inbound data or envelope definition
- No, indicates that you will be specifying a control number is owned only by this envelope

Specify input file encoding	Whether to specify input file encoding. Valid value is Yes or No (default). Required.
------------------------------------	---

Specify translated document encoding

Coded character encoding specified to translate this message group that includes this header. Valid values are Yes and No (default). Required.

Usage Indicator

Mode of operation mode to use for this envelope. Required.

Valid values are:

- Test
- Production (default)
- Information
- Any Indicator (wildcard)

Perform Control Number Sequence Checking

Whether to compare the sequence of control numbers in the data with the Control Number parameter for this envelope. Valid values are Yes and No (default). Required.

Perform Duplicate Control Number Checking

Whether to determine control number duplications. Valid values are Yes and No (default). Required.

If sequence or duplicate checking, EDI Post Processor should

How the EDI Post Processor should perform sequence and duplicate checking. When multiple interchanges for the same trading partner are processed in parallel, sub-processes for transactions will always be a direct child to the process that did the deenveloping. If the interchange is out of sequence, the post processor re-runs until the time-out is reached. Required.

Valid values:

- Process all interchanges in the EDI Sequence Check Queue (recommended)
- Process only the current interchange

Maximum age of Control Number History Records in days

Maximum days to retain a history of control numbers to use for duplication determinations. Valid value is nine standard characters. Optional.

Acceptor Lookup Alias format for generated TA1s

Identifying string used with the sender ID and the receiver ID to look up this envelope with the EDI Encoder service. This alias associates a document with the service it requires. Valid value must be at least one limited standard character. Required.

Retain Enclosing Envelope

Whether to copy the envelope segments (ISA and IEA) into each transaction set extracted from the functional group. Valid values are Yes and No (default). Required.

Use WTX Compliance Checking

Whether to use WTX compliance checking. Valid values are Yes and No (default). This parameter will only be displayed if WTX is installed and is integrated with Sterling B2B Integrator.

Note: Select **Yes** for this option *only* if you are using the WebSphere® Transformation Extender for Sterling B2B Integrator and want to use WTX compliance checking. For information on using HIPAA with Sterling B2B Integrator, please see *Using HIPAA*.

Primary Name Format

Used to specify what information to include when generating a global control number. Information includes the following:

- Test Indicator

Check Test Indicator if you want to use it in the format. Used when **Use global control number** is set to **Yes (and generate name from the data)**.

Global Interchange Control Number

Interchange control reference number used globally. Select a previously defined number to reference. Valid value is nine standard characters. Required. Used when **Use global control number** is set to **Yes**.

Local Interchange Control Number

Interchange control reference number used locally. Select a previously defined number to reference. Valid value is nine standard characters. Required. Used when **Use global control number** is set to **No**.

Encoding (input file encoding)

Type of character encoding specified for the input file. Valid value is six standard characters. Optional.

Encoding (translated document encoding)

Type of character encoding specified for the translated document. Valid value is six standard characters. Optional.

Generate an acknowledgement

When an acknowledgement must be generated. Required. Valid values are:

- Always
- Only when requested by input (default)
- Never

Handling of non-compliant Interchanges

Process to follow when non-compliant interchanges are encountered. Required.

Valid values are:

- Accept
- Reject (default)

Business Process for Non-Compliant Documents

Business process to be used when non-compliant documents are encountered. Optional.

In the Confirm page, verify your configuration and click **Finish** to save the envelope settings.

Chapter 5. ASC X12 Inbound GS GE Envelope Properties, Group Level

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (the wildcard value is an (*) asterisk). For Inbound envelopes, a wildcard value in the envelope matches any value in the input document, while an empty value in the envelope matches only an empty value in the input document. For Outbound envelopes, a wildcard value is equivalent to an empty value in the envelope.

The following table describes X12 inbound GS GE envelope properties at the group level:

Field	Description
-------	-------------

* Functional ID Code	
-----------------------------	--

	Coded identifier of the functional ID as used in the interchange. Valid value is two standard characters. Required.
--	---

* Application Sender's Code	
------------------------------------	--

	Coded identifier of Sterling B2B Integrator used by the sender. Valid value is 15 standard characters. Required.
--	--

Sender Organization	
----------------------------	--

	The receiver organization. Optional.
--	--------------------------------------

* Application Receiver's Code	
--------------------------------------	--

	Coded identifier of the Sterling B2B Integrator used by the receiver. Valid value is 15 standard characters. Required.
--	--

Receiver Organization	
------------------------------	--

	The receiver organization. Optional.
--	--------------------------------------

Use global control number	
----------------------------------	--

	Whether this envelope definition must use a global transaction set number to uniquely identify message group headers. Valid values are:
--	---

- | | |
|--|--|
| | <ul style="list-style-type: none">• Yes, indicates that you want to use a global number and you will be asked to select one that has already been created• Yes (and generate name from data), indicates that the global number name will be generated using values from the inbound data or envelope definition• No, indicates that you will be specifying a control number is owned only by this envelope |
|--|--|

Global Group Control Number	
------------------------------------	--

	Group control reference number used globally. Select a previously defined number to reference. Valid value is nine standard characters. Required.
--	---

Primary Name Format	
----------------------------	--

	Used to specify what information to include when generating a Global Number Name.
--	---

- | | |
|--|--|
| | <ul style="list-style-type: none">• Functional ID Code (selected by default)• Version, Release, Industry Identifier Code (selected by default)• Test Indicator |
|--|--|

Only displayed when **Use global control number** is set to **Yes** (and generate name from data).

Backup Name Format

Used to specify what information to include when generating a Global Number Name. The Backup Name Formats are used when a valid name can not be determined from the Primary Name Format.

- Functional ID Code (selected by default)
- Version, Release, Industry Identifier Code
- Test Indicator

Backup Name Format

Used to specify what information to include when generating a Global Number Name. The Backup Name Formats are used when a valid name can not be determined from the Primary Name Format.

- Functional ID Code
- Version, Release, Industry Identifier Code
- Test Indicator

Local Group Control Number

Group control reference number used locally. Select a previously defined number to reference. Required. Valid value is nine standard characters. Required.

*** Responsible Agency Code**

Agency responsible for relaying the message group on the sending side. Valid value is alphanumeric code with two standard characters. Required.

*** Version, Release, Industry Identifier Code**

Version, release, and coded identifier of the industry for this interchange. Valid value is 12 standard characters. Required.

Perform Control Number Sequence Checking

Compare the sequence of control numbers in the data with the Control Number parameter for this envelope. Valid values are Yes and No. Required.

Perform Duplicate Control Number Checking

Whether to determine control number duplications. Valid values are Yes and No. Required.

Maximum age of Control Number History Records in days

Maximum days to retain a history of control numbers to use for duplication determinations. Valid value is nine standard characters. Optional.

Retain Enclosing Envelope

Whether to copy the envelope segments (ISA, GS and GE, IEA) into each transaction set extracted from the functional group. Valid values are Yes and No. Required.

Business Process for Non-Compliant Documents

Business process to be used when non-compliant documents are encountered. Required.

Handling of non-compliant Groups

Process to follow when non-compliant groups are encountered. Valid values are: Accept and Reject. Required.

*** Generate an acknowledgement when this group is received**

Whether to generate an acknowledgement that notifies the sender that the receiver has received an interpretable group transmission. Valid values are Yes and No. Required.

Acknowledgement Format

The format of the acknowledgement to be sent. The valid values are:

- 997
- 999

Required.

Acknowledgement Detail Level

Level of detail to send acknowledgements. If you select Segment level, the segment, transaction, and group levels are acknowledged. Optional.

Send acknowledgement immediately

Whether to send the acknowledgement immediately on receipt of the message. Valid values are Yes and No (default). Required.

Acceptor Lookup Alias format for generated 997/999s

Alias for acceptor lookup for generated 997 acknowledgements. Optional. Valid values are:

- 99X
- 99X_[group version]
- 99X_[test indicator]
- 99X_[group version]_[test indicator]

Note: If you selected an option other than 997 or 999 for the Inbound Acceptor Lookup Alias for generated 997/999s parameter (inbound interchange envelope), the name of the acceptor lookup alias is generated based on values in the inbound interchange. This allows you to have multiple outbound envelopes for acknowledgements that use different versions and test modes to achieve the appropriate outbound response. For example, if you have two ST outbound 997/999 envelopes with the same Sender ID, Receiver ID, and Acceptor Lookup Alias (because there are two different inbound versions (004010 or 004030) of a particular document), and you change the inbound GS envelope Acceptor Lookup Alias for generated 997/999s to reference 99X_[group version] instead of just 997/999. Then, for the outbound 997/999 ST envelope, the acceptor lookup alias must be entered as 99X_004010.

In the Confirm page, verify your configuration and click **Finish** to save the envelope settings.

Chapter 6. ASC X12 Inbound ST SE Envelope Properties, Transaction Level

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (the wildcard value is an (*) asterisk). For Inbound envelopes, a wildcard value in the envelope matches any value in the input document, while an empty value in the envelope matches only an empty value in the input document. For Outbound envelopes, a wildcard value is equivalent to an empty value in the envelope.

The following table describes X12 inbound ST SE envelope properties at the transaction level:

Field	Description
-------	-------------

* Sender ID	
--------------------	--

	Coded identifier of the company or division sending the interchange. Valid value is 12 standard characters. Required.
--	---

Sender Organization	
----------------------------	--

	The sender organization. Optional.
--	------------------------------------

Receiver ID	
--------------------	--

	Coded identifier of the company or division receiving the transaction. Valid value is 12 standard characters. Required.
--	---

* Receiver Organization	
--------------------------------	--

	The receiver organization. Optional.
--	--------------------------------------

* Transaction Set ID Code	
----------------------------------	--

	Coded identifier of transaction set. Optional. Valid value is three standard characters.
--	--

Use global control number	
----------------------------------	--

	Whether this envelope definition must use a global transaction set number to uniquely identify message group headers. Valid values are:
--	---

- | | |
|--|--|
| | <ul style="list-style-type: none">• Yes, indicates that you want to use a global number and you will be asked to select one that has already been created• Yes (and generate name from data), indicates that the global number name will be generated using values from the inbound data or envelope definition• No, indicates that you will be specifying a control number is owned only by this envelope |
|--|--|

Global Transaction Set Control Number	
--	--

	Transaction set control reference number used globally. Select a previously defined number to reference. Valid value is nine standard characters. Required.
--	---

Primary Name Format	
----------------------------	--

	Used to specify what information to include when generating a Global Number Name.
--	---

- | | |
|--|---|
| | <ul style="list-style-type: none">• Transaction Set ID Code (selected by default)• Implementation Convention Reference• Version, Release, Industry Identifier Code (selected by default)• Test Indicator |
|--|---|

Only displayed when Use **global control number** is set to **Yes (and generate name from data)**.

Backup Name Format

Used to specify what information to include when generating a Global Number

Name. The Backup Name Formats are used when a valid name can not be determined from the Primary Name Format.

- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Backup Name Format

Used to specify what information to include when generating a Global Number

Name. The Backup Name Formats are used when a valid name can not be determined from the Primary Name Format.

- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Local Transaction Set Control Number

Transaction set control reference number used locally. Select a previously defined number to reference. Valid value is nine standard characters. Required.

*** Implementation Convention Reference**

Identifier of the implementation convention reference. Valid value is up to 35 standard characters. Optional.

Note: When this field is present in the data input, it is used to select an appropriate implementation of a given transaction set definition.

Group Version Release ID Code

Release identifier for this version of the group. Valid value is 12 standard characters. Required.

Test Indicator

Mode of operation mode to use for this envelope. Required. Valid values are:

- Test
- Production
- Information
- Any Indicator (wildcard)

Perform Control Number Sequence Checking

Compare the sequence of control numbers in the data with the Control Number parameter for this envelope. Valid values are Yes and No. Required.

Perform Duplicate Control Number Checking

Whether to determine control number duplications. Valid values are Yes and No. Required.

Maximum age of Control Number History Records in days

Maximum days to retain a history of control numbers to use for duplication determinations. Valid value is nine standard characters. Optional.

Retain Enclosing Envelope

Whether to copy the envelope segments (ISA and IEA) into each transaction set extracted from the functional group. Valid values are Yes and No. Required.

Batch transactions received within a functional group into one output document

Whether to locate all similar transactions from a functional group into one output document. For example, all invoices would be put into one document. Valid values are Yes and No. Required.

Compliance Check Document

Whether to check the transaction set body for compliance. Valid values are Yes and No. Required.

Map Name Mode

Mode in which to specify the map to use to perform inbound translation. Valid values are:

- Specify
- Generate from data

Map Name

Which map to use to perform inbound translation. The map must already be checked in. Select the map. Optional.

Note: If you are using the WebSphere Transformation Extender Maps in Sterling B2B Integrator and want to do inbound translation, you must select your inbound translation map.

Primary Name Format

Used to specify what information to include when generating a compliance check Map Name. Information includes the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code (selected by default)
- Test Indicator

Check all that you want to use in the format. Used when **Map Name Mode** is set to **Generate from data**.

Backup Name Format

Used to specify what information to include when generating a compliance check Map Name. The Backup Name Formats are used when a valid map can not be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)

- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a compliance check Map Name. The Backup Name Formats are used when a valid map can not be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator
- Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a compliance check Map Name. The Backup Name Formats are used when a valid map can not be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID
- Receiver ID
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Generate an error if no generated map name exists in the system

Generate an error message if the translator cannot locate the specified map name. Valid values are Yes and No. Required.

Handling of non-compliant Transactions

Process to follow when non-compliant transactions are encountered. Required.

Valid values are:

- Accept compliant and non-compliant transactions
- Accept compliant transactions, reject non-compliant transactions

Translate transactions

Generate transactions according to the standard format from data groups in an EDI system and carry out reverse processing. By choosing to translate documents from within the envelope, you can reduce document processing time because you do not need to specify a separate Translation service step in the business process. Required. Valid values are Yes and No.

Validate translation output

Validate translated output (that is, documents sent to trading partners). Valid values are Yes and No. Required.

Perform HIPAA compliance check

Whether HIPAA compliance is required. Valid values are Yes and No. Required.

HIPAA Validation Level

Select the HIPAA validation level from the list. Required.

Note: If you are not using a WTX map, you cannot select Level 1 or 2. To use Level 1 or 2 with a Sterling B2B Integrator map and translator, you must perform the check using your compliance map instead of a predefined map.

Values are:

- Level 1 (WTX only)
- Level 2 (WTX only)
- Level 4 (including level 1, 2, and 3)
- Level 5 (including level 1, 2, 3, and 4)
- Level 6 (including level 1, 2, 3, 4, and 5)

Determine the Business Process by

Select a business process that should run with extracted X12 inbound ST/SE messages as the primary document. Required. Valid values are:

- Looking up contract dynamically
- Specifying a contract
- Specifying a business process
- Generating the business process name from the data

Contract List

Select a previously created contract to associate with this envelope. Required.

Business Process List

Select a business process to run when this envelope is processed. Optional.

Primary Name Format

Used to specify what information to include when generating a business process name. Information includes the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code (selected by default)
- Test Indicator

Check all that you want to use in the format. Used when **Determine the Business Process by** is set to **Generating the business process name from the data**.

Backup Name Format

Used to specify what information to include when generating a business process name. The Backup Name Formats are used when a valid business

process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process name. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID
- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process name. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID
- Receiver ID
- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Generate an error if no generated business process name exists in the system

Generate an error message if the translator cannot locate the specified business process name. Valid values are Yes and No. Required.

Extraction Options

Required. Valid values are:

- Determined by a business process
- Extract to a file system directory
- Extract to a mailbox

Error Business Process Name Mode

Mode in which to specify a business process to run if an error is encountered. Optional. Valid values are:

- Specify
- Generate from data

Only displayed if **Extraction Options** is set to **Determined by a business process**.

Business Process for Non-Compliant Documents

Business process to be used when non-compliant documents are encountered. Optional.

Primary Name Format

Used to specify what information to include when generating a business process name. Information includes the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code (selected by default)
- Test Indicator

Check all that you want to use in the format. Only displayed when **Error Business Process Name Mode** is set to **Generate from data**.

Backup Name Format

Used to specify what information to include when generating a business process name. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process name. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID (selected by default)
- Receiver ID
- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process name. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID
- Receiver ID
- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Generate an error if no generated business process name exists in the system

Generate an error message if the translator cannot locate the specified business process name. Valid values are Yes and No. Required.

Data Extraction Directory

Directory for data extraction. Optional.

Data Extraction Filename

Filename for data extraction. Optional.

Data Extraction Mailbox

Mailbox for data extraction. Required.

Data Extraction Mailbox Message Name

Mailbox message name for data extraction. Optional.

For each document

Specified in the **Determine Business Process by** parameter. Required. Valid values are:

- Invoke the business process
- Set the business process name in the process data

Generate an error if no generated business process name or map name exists in the system

Generate an error message if the translator cannot locate the specified business process name or map name. Valid values are Yes and No. Required.

In the Confirm page, verify your configuration and click **Finish** to save the envelope settings.

Chapter 7. ASC X12 Outbound ISA IEA Envelope Properties, Interchange Level

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (the wildcard value is an (*) asterisk). For Inbound envelopes, a wildcard value in the envelope matches any value in the input document, while an empty value in the envelope matches only an empty value in the input document. For Outbound envelopes, a wildcard value is equivalent to an empty value in the envelope.

The following table describes X12 outbound ISA IEA envelope properties at the interchange level:

Field	Description
-------	-------------

* **Authorization Information Qualifier**

Coded information qualifier of the authorization level associated with this interchange. Valid value is two standard characters. Required.

* **Authorization Information**

Coded authorization level associated with this interchange. Valid value is two standard characters. Optional.

* **Security Information Qualifier**

Coded security qualifier of the authorization level associated with this interchange. Valid value is 10 standard characters. Required.

* **Security Information**

Coded security level associated with this interchange. Valid value is ten standard characters. Optional.

What values should be used in the Authorization and Security information field when enveloping acknowledgements

Specify which values should be used in the Authorization and Security information field when envelope acknowledgement is performed. Valid values are:

- None (leave empty)
- Values specified in this envelope (default)
- Values from the inbound interchange

* **Sender ID Qualifier**

Coded qualifier of the sender ID as it should appear on the message group header sent to this company or division. Valid value is four standard characters. Required.

* **Sender ID**

Coded identifier of the company or division sending the interchange. Valid value is 15 standard characters. Optional.

* **Sender Organization**

The sender organization. Optional.

* **Receiver ID Qualifier**

Coded qualifier of the receiver ID as it should appear on the message group header sent to this company or division. Valid value is two standard characters. Optional.

*** Receiver ID**

Coded identifier of the company or division receiving the interchange.
Valid value is 15 standard characters. Optional.

*** Receiver Organization**

The receiver organization. Optional.

*** Interchange Control Standards Identifier Repetition Separator versions 403 and above**

Specify the character used to separate repeated elements. Required.

*** Interchange Control Version Number**

Version number of this control interchange. Valid value is five standard characters. Required.

Use correlation overrides

Whether to use correlation overrides. Required. Valid values are:

- **Always** - If a correlation override value is provided, always use that value instead of the value in the envelope (except for the Sender ID, Receiver ID, and Sender/Receiver Qualifier fields, which must have a * in the envelope definition to use the correlation override value).
- **Only when the envelope field has a wildcard value (*)** - Only use correlation override values for fields in the envelope definition that are specified with a wildcard (*).
- **Never** - Never use correlation overrides.
- **Use the default specified in enveloping.properties** - The enveloping.properties file defines when to use correlation overrides if this choice is selected. The properties file will either define Always, Never, or Only when the envelope field has a wildcard (*) value. The applicable properties file property is **enveloping.correl_override_default.[standard]**. Allowed values are No (which means never), WildcardOnly, or All (which means always, except for the Sender ID, Receiver ID, and Sender/Receiver Qualifier fields, which must have a * in the envelope definition to use the correlation override value).

Use global control number

Whether this envelope definition must use a global transaction set number to uniquely identify message group headers. Valid values are:

- Yes, indicates that you want to use a global number and you will be asked to select one that has already been created
- Yes (and generate name from data), indicates that the global number name will be generated using values from the inbound data or envelope definition
- No, indicates that you will be specifying a control number is owned only by this envelope

Global Interchange Control Number

Interchange control reference number used globally. Select a previously defined number to reference. Valid value is nine standard characters. Required.

Primary Name Format

Used to specify what information to include when generating a control number. Information may include the following:

- Test Indicator

Used when **Use global control number** is set to **Yes (and generate name from data)**.

Local Interchange Control Number

Interchange control reference number used locally. Select a previously defined number to reference. Valid value is nine standard characters. Required. Only displayed when **Use global control number** is set to **No**.

Acknowledgement Requested

Request an acknowledgement that notifies the sender that the receiver has received an interpretable interchange transmission. Valid values are Yes and No. Required.

Usage Indicator

Operation mode to use for this envelope. Valid values are:

- Test
- Production (default)
- Information
- Any Indicator (wildcard)

Acceptor Lookup Alias

Identifying string used with the sender ID and the receiver ID to look up this envelope with the EDI Encoder service for TA1 processing. This alias associates a document with the service it requires. Valid value must match specified format on inbound ISA envelope. Default is "TA1." Required.

Note: If you selected an option other than 997 or 999 for the Inbound Acceptor Lookup Alias for generated 997/999s parameter (inbound interchange envelope), the name of the acceptor lookup alias is generated based on values in the inbound interchange. This allows you to have multiple outbound envelopes for acknowledgements that use different versions and test modes to achieve the appropriate outbound response. For example, if you have two ST outbound 997/999 envelopes with the same Sender ID, Receiver ID, and Acceptor Lookup Alias (because there are two different inbound versions (004010 or 004030) of a particular document), and you change the inbound GS envelope Acceptor Lookup Alias for generated 997/999s to reference 99X_[group version] instead of just 997 or 999. Then, for the outbound 997/999 ST envelope, the acceptor lookup alias must be entered as 99X_004010.

Use WTX Compliance Checking

Whether to use WTX compliance checking. Valid values are Yes and No (default). This parameter will only be displayed if WTX is installed and is integrated with Sterling B2B Integrator.

Note: Select **Yes** for this option *only* if you are using the WebSphere Transformation Extender Maps in Sterling B2B Integrator and want to use WTX compliance checking. For information on using HIPAA with Sterling B2B Integrator, please see *Using HIPAA*.

*** Acknowledgement overdue after (hours)**

Amount of time, in hours, within which you must receive an acknowledgement. Valid value is four numeric characters. Optional. Only displayed if **Acknowledgement Requested** is set to **Yes**.

*** Acknowledgement overdue after (minutes)**

Amount of time, in minutes, within which you must receive an acknowledgement. Valid value is four numeric characters. Optional. Only displayed if **Acknowledgement Requested** is set to **Yes**.

Maximum number of documents per interchange

Specify the Maximum number of documents per interchange. If you do not specify a value or if you specify zero, the system will not check for maximum documents per interchange. If you specify a value greater than zero, only that number of documents (or less) will be included in an interchange. This parameter can work in conjunction with the Limit Interchange Size parameter to limit the number of documents per interchange and also limit the size of the interchange. This may result in less than the maximum number of documents depending upon the size limit you impose.

Note: You can also specify the maximum number of documents per interchange globally without having to change all existing envelope definitions by modifying the enveloping.EDIFACT.MaxDocsPerInterchange property in the enveloping.properties file by uncommenting this line (by removing the #) and then specifying a value greater than zero. See the Property Files documentation for more information on changing properties. Note that anything specified in the envelope definition will override the global value specified in the enveloping.properties file. Additionally, any correlation overrides will override the value specified in the envelope definition and the enveloping.properties file.

Optional.

Limit Interchange Size

Maximum size allowed for an interchange before a single interchange is split into multiple interchanges that are each under the maximum size limitation.

Valid values are:

- No
- Use smallest transaction limit (default)

Note: The **Use smallest transaction limit** setting is specific to the limitation imposed by the standard.

- Specify size limit
- Use global default in enveloping.properties

Required.

Note: If you select **Use transaction set default in enveloping.properties**, you need to specify the size limit directly (in the **Maximum Interchange Size** parameter) or by setting properties in the enveloping.properties property file, which contains a property for each supported standard and more specific properties for each message type (for example, 810 and 850 for the ASC X12 standard) that can override the standard property.

Invoke Business Process for Each Interchange

Whether a business process is invoked for each interchange generated. Valid values are Yes and No (default). Required.

Note: If **Invoke Business Process for Each Interchange** is set to **No**, the service places the name of the business process specified in the envelope into process data using the key WFD_NAME. This business process is then invoked by the Invoke Business Process Service. If **Invoke Business**

Process For Each Interchange is set to **Yes**, the service directly bootstraps an instance of the business process specified in the envelope, and does not set WFD_NAME in process data.

Maximum Interchange Size

Specify the maximum size of each individual interchange. Required.

Note: Only displayed if you selected **Specify size limit** for the **Limit Interchange Size** parameter. If you choose to specify a maximum value, the value you specify is checked to make sure it is at least 249 bytes based on the header and trailer size for X12 standard.

Note: For performance reasons, the size is estimated for some components of the interchange (for example, control numbers) when determining the size. For this reason, the actual enforced size limit is slightly smaller than the value you specify.

Data Element Separator

EDI delimiter to use to separate elements. Required.

Segment Terminator

EDI delimiter to use to indicate the end of segments. Required.

Component Element Separator

EDI delimiter to use to separate components. Required.

Release Character

Character to use to release an EDI delimiter. Required.

Stream Segments

Whether to stream segments or insert an end-of-line character after each segment record. Valid values are Yes (stream segments—do not insert the end-of-line character after each segment record) and No (default—insert the end-of-line character after each segment record). Required.

Encode Document

Whether to specify character encoding for the document. Required. Valid values are Yes and No.

Encoding

Type of character encoding specified for the message group that includes this header. Valid value is six standard characters. Optional.

Determine the Business Process by

Select a business process that should run with extracted X12 outbound ISA/IEA messages as the primary document. Required. Valid values are:

- Looking up contract dynamically (default)
- Specifying a contract
- Specifying a business process
- Generating the business process name from the data

Business Process List

Select a business process to run when this envelope is processed. Optional.

Contract List

Select a previously created contract to associate with this envelope. Optional.

Primary Name Format

Used to specify what information to include when generating a business process. Information includes the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier (selected by default)
- Sender ID (selected by default)
- Receiver ID Code Qualifier (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code (selected by default)
- Test Indicator

Check all that you want to use in the format. Only displayed when **Determine the Business Process** by is set to **Generating the business process name from the data**.

Backup Name Format

Used to specify what information to include when generating a business process. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier (selected by default)
- Sender ID (selected by default)
- Receiver ID Code Qualifier (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier (selected by default)
- Sender ID (selected by default)
- Receiver ID Code Qualifier (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process. The Backup Name Formats are used when a valid business

process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier (selected by default)
- Sender ID (selected by default)
- Receiver ID Code Qualifier
- Receiver ID
- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a business process. The Backup Name Formats are used when a valid business process cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier
- Sender ID
- Receiver ID Code Qualifier
- Receiver ID
- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Generate an error if no generated business process name exists in the system

Whether to generate an error if the specified business process name does not exist in the system. Valid values are Yes (default) and No. Required.

Extraction Options

The extraction options to use. Required. Valid values are:

- Determined by a business process
- Extract to a file system directory
- Extract to a mailbox

Data Extraction Directory

Directory for data extraction. Optional.

Data Extraction Filename

Filename for data extraction. Optional.

Data Extraction Mailbox

Mailbox for data extraction. Optional.

Data Extraction Mailbox Message Name

Mailbox message name for data extraction. Optional.

In the Confirm page, verify your configuration and click **Finish** to save the envelope settings.

Chapter 8. ASC X12 Outbound GS GE Envelope Properties, Group Level

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (the wildcard value is an (*) asterisk). For Inbound envelopes, a wildcard value in the envelope matches any value in the input document, while an empty value in the envelope matches only an empty value in the input document. For Outbound envelopes, a wildcard value is equivalent to an empty value in the envelope.

GS/GE outbound envelopes use pointers to select next envelope. If the envelopes are not exported/imported as a set, the pointers may fail. Pointer names include a reference to the server on which the envelope was created. Therefore, if Envelope set (ST, GS, ISA) is created on **machine1** and then exported and imported into **machine2**, the pointer names (Envelope ID) reference **machine1**. If the envelope set is deleted and recreated on **machine2** using the same Sender ID and Receiver ID, and so forth, the pointer name (Envelope ID) of these envelopes now reference **machine2**. If just one envelope, for example the GS envelope, is then imported back to **machine2**, it will be added as a version of the original envelope under the original Envelope ID, but the pointer to the next envelope to use now points to an envelope ID that does not exist on **machine1**.

The following table describes X12 outbound GS GE envelope properties at the group level:

Field	Description
-------	-------------

Next Envelope	
----------------------	--

Envelope to apply after this envelope. Optional.

Create Next Envelope	
-----------------------------	--

Allows you to create the GS envelope to be used as the next envelope in the set. Optional.

* Functional ID Code	
-----------------------------	--

Coded identifier of the functional ID as used in the interchange. Valid value is two standard characters. Required.

* Application Sender's Code	
------------------------------------	--

Coded identifier of the Sterling B2B Integrator used by the sender. Valid value is 15 standard characters. Required.

* Sender Organization	
------------------------------	--

The sender organization. Valid value is 15 standard characters. Optional.

* Application Receiver's Code	
--------------------------------------	--

Coded identifier of the Sterling B2B Integrator used by the receiver. Valid value is 15 standard characters. Required.

* Receiver Organization	
--------------------------------	--

The receiver organization. Valid value is 15 standard characters. Optional.

Use Correlation Overrides	
----------------------------------	--

Whether to use correlation overrides. Required. Valid values are:

- **Always** - If a correlation override value is provided, always use that value instead of the value in the envelope (except for the Sender ID,

Receiver ID, and Sender/Receiver Qualifier fields, which must have a * in the envelope definition to use the correlation override value).

- **Only when the envelope field has a wildcard value (*)** - Only use correlation override values for fields in the envelope definition that are specified with a wildcard (*).
- **Never** - Never use correlation overrides.
- **Use the default specified in enveloping.properties** - The enveloping.properties file defines when to use correlation overrides if this choice is selected. The properties file will either define Always, Never, or Only when the envelope field has a wildcard (*) value. The applicable properties file property is **enveloping.correl_override_default.[standard]**. Allowed values are No (which means never), WildcardOnly, or All (which means always, except for the Sender ID, Receiver ID, and Sender/Receiver Qualifier fields, which must have a * in the envelope definition to use the correlation override value).

Use global control number

Whether this envelope definition must use a global transaction set number to uniquely identify message group headers. Valid values are:

- Yes, indicates that you want to use a global number and you will be asked to select one that has already been created
- Yes (and generate name from data), indicates that the global number name will be generated using values from the inbound data or envelope definition
- No, indicates that you will be specifying a control number is owned only by this envelope

Global Group Control Number

Group control reference number used globally. Select a previously defined number to reference. Valid value is nine standard characters. Required.

Primary Name Format

Used to specify what information to include when generating a control number. Information may include some or all of the following:

- Functional ID code (selected by default)
- Version, Release, Industry Identifier Code (selected by default)
- Test indicator

Check all that you want to use in the format. Used when **Use Control Number** is set to **Yes (and generate name from data)**.

Backup Name Format

Used to specify what information to include when generating a control number. The Backup Name Formats are used when a valid control number cannot be determined from the Primary Name Format. Information may include some or all of the following:

- Functional ID code (selected by default)
- Version, Release, Industry Identifier Code
- Test indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a control

number. The Backup Name Formats are used when a valid control number cannot be determined from the Primary Name Format. Information may include some or all of the following:

- Functional ID code
- Version, Release, Industry Identifier Code
- Test indicator

Check all that you want to use in the format.

Local Group Control Number

Group control reference number used locally. Select a previously defined number to reference. Valid value is nine standard characters. Required. Used when **Use Control Number** is set to **No**.

*** Responsible Agency Code**

Agency responsible for relaying the message group on the sending side. Valid value is alphanumeric code with two standard characters. Required.

*** Version, Release, Industry Identifier Code**

Combination of the version and release number and code identifier of the industry of this control interchange. Valid value is 12 standard characters. Required.

Expect an acknowledgement for this functional group

Whether you expect an acknowledgement that notifies the receiver has received an interpretable functional group. Valid values are Yes (default) and No. Required.

Acknowledgement Format

The format of the acknowledgement to be received. The valid values are:

- 997
- 999
- 997 or 999

Required.

*** Acknowledgement overdue time (hours)**

Amount of time, in hours, within which you must receive an acknowledgement. Valid value is four numeric characters. Optional.

*** Acknowledgement overdue after (minutes)**

Amount of time, in minutes, within which you must receive an acknowledgement. Valid value is four numeric characters. Optional.

In the Confirm page, verify your configuration and click **Finish** to save the envelope settings.

Chapter 9. ASC X12 Outbound ST SE Envelope Properties, Transaction Level

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (the wildcard value is an (*) asterisk). For Inbound envelopes, a wildcard value in the envelope matches any value in the input document, while an empty value in the envelope matches only an empty value in the input document. For Outbound envelopes, a wildcard value is equivalent to an empty value in the envelope.

ST SE outbound envelopes use pointers to select next envelope. If the envelopes are not exported/imported as a set, the pointers may fail. Pointer names include a reference to the server on which the envelope was created. Therefore, if Envelope set (ST, GS, ISA) is created on **machine1** and then exported and imported into **machine2**, the pointer names (Envelope ID) reference **machine1**. If the envelope set is deleted and recreated on **machine2** using the same Sender ID and Receiver ID, and so forth, the pointer name (Envelope ID) of these envelopes now reference **machine2**. If just one envelope, for example the GS envelope, is then imported back to **machine2**, it will be added as a version of the original envelope under the original Envelope ID, but the pointer to the next envelope to use now points to an envelope ID that does not exist on **machine1**.

The following table describes X12 outbound ST SE envelope properties at the transaction level:

Field	Description
-------	-------------

Next Envelope	
----------------------	--

Envelope to apply after this envelope. Optional.

Create Next Envelope	
-----------------------------	--

Allows you to create the GS envelope to be used as the next envelope in the set. Optional.

Sender ID Qualifier	
----------------------------	--

Qualifier used in envelope lookup by EDI Encoder. Optional.

Sender ID	
------------------	--

Coded identifier of the company or division sending the transaction. Valid value is 15 standard characters. Required.

* Sender Organization	
------------------------------	--

The sender organization. Optional.

Receiver ID Qualifier	
------------------------------	--

Qualifier used in envelope lookup by EDI Encoder. Optional.

Receiver ID	
--------------------	--

Coded identifier of the company or division receiving the transaction. Valid value is 15 standard characters. Required.

* Receiver Organization	
--------------------------------	--

The receiver organization. Optional.

* Transaction Set ID Code	
----------------------------------	--

Code identifier of the transaction set. Valid value is three standard characters. Required.

Use Correlation Overrides

Whether to use correlation overrides. Required. Valid values are:

- **Always** - If a correlation override value is provided, always use that value instead of the value in the envelope (except for the Sender ID, Receiver ID, and Sender/Receiver Qualifier fields, which must have a * in the envelope definition to use the correlation override value).
- **Only when the envelope field has a wildcard value (*)** - Only use correlation override values for fields in the envelope definition that are specified with a wildcard (*).
- **Never** - Never use correlation overrides.
- **Use the default specified in enveloping.properties** - The enveloping.properties file defines when to use correlation overrides if this choice is selected. The properties file will either define Always, Never, or Only when the envelope field has a wildcard (*) value. The applicable properties file property is **enveloping.correl_override_default.[standard]**. Allowed values are No (which means never), WildcardOnly, or All (which means always, except for the Sender ID, Receiver ID, and Sender/Receiver Qualifier fields, which must have a * in the envelope definition to use the correlation override value).

Control number handling

Specify how to handle control numbers. Required. Valid values are:

- Global (default)
- Global (and generate name from data)
- Local
- Always start at 1

Global Transaction Set Control Number

Transaction set control reference used globally. Select a previously defined global transaction set control reference. Valid value is nine standard characters. Required. Only displayed when **Control number handling** is set to **Global**.

Primary Name Format

Used to specify what information to include when generating a control number. Information includes the following:

- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code (selected by default)
- Test Indicator

Check all that you want to use in the format. Used when **Control number handling** is set to **Global (and generate name from data)**.

Backup Name Format

Used to specify what information to include when generating control number information. The Backup Name Formats are used when a valid control number cannot be determined from the Primary Name Format. Information includes the following:

- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format. Used when **Control number handling** is set to **Global (and generate name from data)**.

Backup Name Format

Used to specify what information to include when generating control number information. The Backup Name Formats are used when a valid control number cannot be determined from the Primary Name Format. Information includes the following:

- Transaction Set ID Code
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format. Used when **Control number handling** is set to **Global (and generate name from data)**

Local Transaction Set Control Number

Transaction set reference used locally. Select a previously defined global transaction set control reference. Valid value is nine standard characters. Required.

*** Implementation Convention Reference (versions 4012 and above)**

Identifier of the implementation convention reference. Valid value is up to 35 standard characters. Optional.

Note: When this field is present in the data input, it is used to select an appropriate implementation of a given transaction set definition.

Acceptor Lookup Alias

Identifying string used with the sender ID and the receiver ID to look up this envelope with the EDI Encoder service. This alias associates a document with the service it requires. Valid value must be at least one limited standard character. Required.

Note: For 997 or 999 documents, the ALA format must be entered in the format as defined by the Inbound GS/GE envelope. For example, if an inbound 004030 document is received and the Acceptor Lookup Alias for generated 997/999s is set to use 99X_[group version] format, then the ALA must be entered as 99X_004030.

Perform HIPAA compliance check

Whether HIPAA compliance is required. Valid values are Yes and No. Required.

HIPAA Validation Level

Select the HIPAA validation level from the list. Required.

Note: If you are not using a WTX map, you cannot select Level 1 or 2. To use Level 1 or 2 with a Sterling B2B Integrator map and translator, you must perform the check using your compliance map instead of a predefined map.

Values are:

- Level 1 (WTX only)
- Level 2 (WTX only)
- Level 4 (including level 1, 2, and 3)
- Level 5 (including level 1, 2, 3, and 4)
- Level 6 (including level 1, 2, 3, 4, and 5)

Limit Interchange Size

Maximum size allowed for an interchange before a single interchange is split into multiple interchanges that are each under the maximum size limitation.

Valid values are:

- No
- Specify size limit
- Use transaction set default in enveloping.properties (default)

Required.

Note: If you select **Use transaction set default in enveloping.properties**, you need to specify the size limit directly (in the Maximum Interchange Size parameter) or by setting properties in the enveloping.properties property file, which contains a property for each supported standard and more specific properties for each message type (for example, 810 and 850 for the ASC X12 standard) that can override the standard property.

Maximum Interchange Size

Specify the maximum size of each individual interchange. Required.

Note: Only displayed if you selected **Specify size limit** for the **Limit Interchange Size** parameter. If you choose to specify a maximum value, the value you specify is checked to make sure it is at least 249 bytes based on the header and trailer size for X12 standard.

Note: For performance reasons, the size is estimated for some components of the interchange (for example, control numbers) when determining the size. For this reason, the actual enforced size limit is slightly smaller than the value you specify.

Map Name Mode

Mode in which to specify the map to use to perform outbound translation. Required. Valid values are:

- Specify
- Generate from data

Map Name

Select the map to be used to perform outbound translation. The map must already be checked in. Optional. Only displayed when **Map Name Mode** is set to **Specify**.

Note: If you are using the WebSphere Transformation Extender Maps in Sterling B2B Integrator and want to do outbound translation, you must select your outbound translation map.

Primary Name Format

Used to specify what information to include when generating a map name. Information includes the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier (selected by default)
- Sender ID (selected by default)
- Receiver ID Code Qualifier (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)

- Implementation Convention Reference
- Version, Release, Industry Identifier Code (selected by default)
- Test Indicator

Check all that you want to use in the format. Only displayed when **Map Name Mode** is set to **Generate from data**.

Backup Name Format

Used to specify what information to include when generating a map name. The Backup Name Formats are used when a valid map name cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier (selected by default)
- Sender ID (selected by default)
- Receiver ID Code Qualifier (selected by default)
- Receiver ID (selected by default)
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format

Backup Name Format

Used to specify what information to include when generating a map name. The Backup Name Formats are used when a valid map name cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier
- Sender ID (selected by default)
- Receiver ID Code Qualifier
- Receiver ID
- Transaction Set ID Code (selected by default)
- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Backup Name Format

Used to specify what information to include when generating a map name. The Backup Name Formats are used when a valid map name cannot be determined from the Primary Name Format. Information may include some or all of the following:

- EDI Standard (selected by default)
- Sender ID Code Qualifier
- Sender ID
- Receiver ID Code Qualifier
- Receiver ID
- Transaction Set ID Code (selected by default)

- Implementation Convention Reference
- Version, Release, Industry Identifier Code
- Test Indicator

Check all that you want to use in the format.

Generate an error if no generated map name exists in the system

Generate an error message if it cannot locate the specified map name. Optional. Valid values are Yes and No.

Validate translation input

Whether to validate the translation input. Valid values are Yes or No. Required.

Validate translation output

Whether to validate the translation output. Valid values are Yes or No. Required.

In the Confirm page, verify your configuration and click **Finish** to save the envelope settings.

Chapter 10. Creating ASC X12 Maps

The Sterling B2B Integrator Map Editor enables you to map ASC X12 documents, and generates a file layout for you using the components and message types that you select. The Sterling B2B Integrator Map Editor-generated ASC X12 map consists of groups, records, composites, and fields that are comparable to parameters that are defined by ASC X12.




Note: You need to download the Sterling B2B Integrator Map Editor component to use it.


Sterling B2B Integrator Map Editor allows you to modify the map components by using the Deactivate, Promote, Split, Copy, Cut, and Paste functions.

You can create a map for all ASC X12 Standards Release messages loaded into the standards database through the Sterling B2B Integrator Map Editor.

ASC X12 Components in the Sterling B2B Integrator Map Editor

The following table lists the components that make up the ASC X12 layout in the Sterling B2B Integrator Map Editor, the icons that represent the components, and descriptions of the components.

Component	Icon	Description
ASC X12 root element		The <i>ASC X12 root element</i> represents the message that Sterling B2B Integrator is mapping. At the ASC X12 file root element, you define the message type and encoding. It is a group and can contain groups and records.
Group		<p>A <i>group</i> is a looping structure that contains a sequence or an implicit group of repeating field tags (in Sterling B2B Integrator Map Editor a group is related segments and groups that repeat in sequence until either the group data ends, or the maximum number of times that the loop is permitted to repeat is exhausted).</p> <p>A group that is subordinate to another group is a subgroup (and corresponds to a nested looping structure, a loop within a loop).</p> <p>When a group contains an extended rule or a standard rule, an asterisk appears to the right of the group icon.</p>
Segment		<p>An <i>ASC X12 segment</i> contains a field tag (in Sterling B2B Integrator Map Editor, an ASC X12 segment is a group of related elements or composite data elements that combine to communicate useful data). An ASC X12 segment can occur once or can repeat multiple times.</p> <p>Note: If an ASC X12 segment occurs more than once in a map, it is identified by its name <ID>. The second and subsequent occurrences are identified by <ID>:n, where n is the number of the occurrence in the map.</p>

Component	Icon	Description
Element		<p>An <i>element</i> is a field or a group of ASC X12 components (the smallest piece of information defined by the standard) that define an ASC X12 element. An element can have different meanings depending on the context. In other data formats in the Sterling B2B Integrator Map Editor, an element is not considered to have useful meaning except in the larger context of the segment that contains it. However, elements used in the Sterling B2B Integrator Map Editor to represent ASC X12 fields and components contain useful and discrete information.</p> <p>Note: If an element occurs more than once in a map it is identified by its name <ID>. The second and subsequent occurrences are identified by <ID>:n, where n is the number of the occurrence in the map.</p> <p>A <i>repeating element</i> is an element with the ability to loop (occur more than once) within a particular ASC X12 segment. To enable a single element to repeat multiple times within an ASC X12 element, the occurrence of the element must be separated by a start and end delimiter. The use of start and end delimiters help the translator determine where elements and components are defined within a field tag.</p> <p>When a field has a link performed against it, a red check mark appears over the element icon.</p> <p>When a field contains an extended rule or a standard rule, an asterisk appears to the right of the element icon.</p>

Using Transaction XREF with ASC X12

About this task

If you need the ability to cross-reference the Sterling B2B Integrator data to generated transaction, perform the following:

Procedure

1. The Sterling B2B Integrator Map Editor uses the **TransactionCrossReferenceTable**, with possible values SenderID, ReceiverID, MessageType, Identifier.
2. The translator populates these values during translation.
3. After each round of translation completes, the EDI Enveloping service can query for the values. When it performs the enveloping, it will locate the standard-specific values for the same four parameters.
4. Based on these two sets of values for identifiers (application specific and standard specific), the EDI Enveloping service populates a TransactionCrossReferenceTable
5. You can build a custom application that queries this table to uniquely link an application file and generate an ASC X12 transaction.

Create an ASC X12 Map

About this task

When you create a new map, you can either manually create an EDI layout or you can use a wizard that creates a layout for you based on an EDI standard. The wizard saves you time and effort and minimizes the risk of having an invalid standard format.

Note: If the map you are creating contains greater than 20,000 objects, you will receive a message noting that this map contains a very large number of objects. For best performance, it is recommended that you consider whether any unnecessary objects in the map can be removed, do not expand the entire object tree—expand only the section of the tree you are currently mapping, consider using the **Show links to or from the currently selected element** option instead of the **Show links to or from all visible elements** option, and save the map using the .MAP file format (using the Save As function).

To create an ASC X12 map:

Procedure

1. From the Sterling B2B Integrator Map Editor **File** menu, select **New**.
2. In the **New Map Wizard**, complete the questions in the first window and click **Next**.

Note: Be sure that **IBM Sterling B2B Integrator** is selected in the **What kind of map are you creating** list.

3. If you are translating from ASC X12, in the Input Format window select the **Create a New Data Format Using this Syntax** option.
4. Then, select **Delimited EDI** and click **Customize**. If you are translating from another format, select that format and continue to the next page of the wizard.
5. If you want to use a HIPAA transaction, select the **HIPAA transaction** check box and click **Next**. Otherwise, just click **Next**.
6. If you want to import code lists from the IBM Sterling Standards for EDI database, select the **Import code list** check box and click **Next**. Otherwise, just click **Next**.

Note: If you select the **Import code list** check box, a Use Code standard rule is created on fields for which the element name matches a code list table name.

7. Select the ODBC data source that contains the Sterling Standards for EDI database (the default is **IBM Sterling B2B Integrator Standards**) and click **Next**.
8. Select the standards agency (**[X] X12** for ASC X12), the version of the standard, and the transaction set you want to use and click **Next**.
9. Click **Finish** to load the transaction set.
10. Click **Next** to select the Output Format.
11. If you are translating to ASC X12, in the Output Format window (select the **Create a New Data Format Using this Syntax** option).
12. Then, select **Delimited EDI** and click **Customize**. If you are translating from another format, select that format and continue to the next page of the wizard.
13. If you want to use a HIPAA transaction, select the **HIPAA transaction** check box and click **Next**. Otherwise, just click **Next**.

14. If you want to import code lists from the Sterling Standards for EDI database, select the **Import code list** check box and click **Next**. Otherwise, just click **Next**.

Note: If you select the **Import code list** check box, a Use Code standard rule is created on fields for which the element name matches a code list table name.

15. Select the ODBC data source that contains the Sterling Standards for EDI database (the default is **IBM Sterling B2B Integrator Standards**) and click **Next**.
16. Select the standards agency (**[X] X12** for ASC X12), the version of the standard, and the transaction set you want to use and click **Next**.
17. Click **Finish** to load the transaction set. The Sterling B2B Integrator Map Editor displays the new map.
18. In the Sterling B2B Integrator Map Editor, select **File > Save** to save the map. Do not use spaces or apostrophes in the map name.

Note: To compile the map, select **File > Compile**. A progress dialog box displays and updates during the compilation process. If the map contains a large number of objects, you may be prompted that you should save the map in .MAP format.

19. To save a map as a .map file, select **File > Save As** and then select Source Maps (*.map) from the Save as type list.

Note: Prior to opening an .xml (XML-formatted) file, the Sterling B2B Integrator Map Editor verifies that you have the Microsoft XML Core Services (MSXML) 4.0 installed on the same computer as Sterling B2B Integrator Map Editor. If you do not have the Microsoft XML Core Services (MSXML) 4.0 installed, the Sterling B2B Integrator Map Editor cannot save or load .xml source files.



Chapter 11. Search for ASC X12 Correlations

About this task

Correlation data, often called correlations, is defined as specific pieces of data that you may need to review in the process of monitoring, tracking, and troubleshooting your activities. These data items are defined by type and value. These type-value pairs are known as name-value pairs, and are a powerful tool you can use to record and search for business process- and document-specific data. Sterling B2B Integrator has some predefined correlations and enables you to define more so that you can easily and efficiently monitor and track your activities, such as ASC X12 message flow.

To search for ASC X12 correlations:

Procedure

1. From the **Administration** menu, select **Business Process > Monitor > Advanced Search > EDI Correlation**.
2. In the Search Option area, specify any combination of the following search criteria, as appropriate. To search for ASC X12 messages, in the **Interchange Level Options Standard** box, type **ASC X12**.
3. Click **Go!** to display the EDI correlation records that match your search criteria.
4. In the EDI Correlation Interchange Results page, click  **info** in the Detail column for the ASC X12 interchange for which you want to view details.
5. In the EDI Correlation Interchange/Group/Transaction Detail Results page, click  **info** to the right of Document Correlations for additional information about the ASC X12 messages.

Chapter 12. Generate an ASC X12 Report

About this task

The EDI Translation Detail report enables you to access EDI data (for a particular standard like ASC X12) for a specified time period. It further allows you to organize the report by selecting criteria such as direction of the transmission, sender and receiver identifier, envelope name, unique identifier for the envelope level, EDI standard used, and translation success or failure, among other parameters. This report allows you to quickly and easily access information about EDI translation through the system.

To run a report containing details on inbound/outbound ASC X12 messages:

Procedure

1. From the **Operations** menu, select **Reports**.
2. Use the Report Configuration wizard to create a new **EDI Transaction Detail** report.
3. On the Detail Filtering page in the **Standard** parameter, clear the checkboxes for all standards *except* **ASC X12**.
4. Filter by any other desired criteria and click **Finish** at the end of the Report Configuration Wizard to generate the report.

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