

Sterling Standards Library



# Using EDIFACT

*Version 8.0*



Sterling Standards Library



# Using EDIFACT

*Version 8.0*

**Note**

Before using this information and the product it supports, read the information in "Notices" on page 73.

**Copyright**

This edition applies to Version 8.0.0 of the IBM Sterling Standards Library and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright IBM Corporation 2000, 2011.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

---

# Contents

## **Chapter 1. Using EDIFACT with the Sterling B2B Integrator . . . . . 1**

Use EDIFACT with Sterling B2B Integrator . . . . . 3

## **Chapter 2. EDIFACT Business Processes 5**

EDIFACTDeenvelope Business Process. . . . . 5

Before Using EDIFACTDeenvelope . . . . . 13

EDIFACTEnvelope Business Process . . . . . 13

Before Using the EDIFACTEnvelope Business

Process . . . . . 16

## **Chapter 3. EDIFACT Enveloping**

### **Overview . . . . . 17**

Envelope Structure . . . . . 17

Using Wildcards in EDI Enveloping and EDI

Deenveloping services . . . . . 19

Create an EDIFACT Envelope . . . . . 20

Update an EDIFACT Envelope . . . . . 21

Delete an EDIFACT Envelope . . . . . 21

## **Chapter 4. EDIFACT Inbound Syntax 4**

### **UNB UNZ Envelope Properties,**

**Interchange Level . . . . . 23**

## **Chapter 5. EDIFACT Inbound Syntax 4**

### **UNG UNE Envelope Properties, Group**

**Level . . . . . 27**

## **Chapter 6. EDIFACT Inbound Syntax 4**

### **UNH UNT Envelope Properties,**

**Transaction Level . . . . . 31**

## **Chapter 7. EDIFACT Outbound Syntax**

### **4 UNB UNZ Envelope Properties,**

**Interchange Level . . . . . 45**

## **Chapter 8. EDIFACT Outbound Syntax**

### **4 UNG UNE Envelope Properties,**

**Group Level . . . . . 53**

## **Chapter 9. EDIFACT Outbound Syntax**

### **4 UNH UNT Envelope Properties,**

**Transaction Level . . . . . 57**

## **Chapter 10. Creating EDIFACT Maps . . 65**

EDIFACT Components in the Sterling B2B

Integrator Map Editor . . . . . 65

Using Transaction XREF with EDIFACT . . . . . 66

Create an EDIFACT Map . . . . . 67

## **Chapter 11. Generate an EDIFACT**

**Report . . . . . 69**

## **Chapter 12. Search for EDIFACT**

**Correlations . . . . . 71**

**Notices . . . . . 73**



# Chapter 1. Using EDIFACT with the Sterling B2B Integrator

EDIFACT (Electronic Data Interchange For Administration, Commerce, and Transport) is the international EDI standard developed under the United Nations. EDIFACT has been adopted by the International Organization for Standardization (ISO) as the ISO standard ISO 9735. The EDIFACT standard provides a set of syntax rules to structure data, an interactive exchange protocol (I-EDI), and standard messages which allow multi-country and multi-industry exchange.

This table describes how the Sterling B2B Integrator supports EDIFACT:

Functionality	Details	Action You Need to Take to Implement EDIFACT
Services	<ul style="list-style-type: none"> <li>EDIFACT Enveloping service translates messages, determines which business processes need to run to apply EDI envelopes, and starts those business processes. This service improves performance of EDI EDIFACT by consolidating EnvelopeUNH, EnvelopeUNG, and EnvelopeUNB into a single service.</li> <li>EDIFACT Deenveloping service removes the envelopes from inbound messages.</li> </ul>	Configure the EDIFACT services in the Sterling B2B Integrator Graphic Process Modeler (GPM). <b>Note:</b> 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 EDIFACT. 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"> <li>Inbound EDIFACT envelope wizards to implement inbound EDIFACT.</li> <li>Outbound EDIFACT envelope wizards to implement outbound EDIFACT.</li> </ul>	<ul style="list-style-type: none"> <li>Create the appropriate EDIFACT envelopes for the EDIFACT messages you are sending and receiving.</li> </ul>

Functionality	Details	Action You Need to Take to Implement EDIFACT
Predefined business processes	<ul style="list-style-type: none"> <li>• EDIFACTDeenvelope business process extracts EDI documents from an EDIFACT interchange-level envelope and locates an associated contract, according to the content of the documents. EDIFACTDeenvelope then starts the appropriate business process. With additional configuration, EDIFACTDeenvelope can also reconcile TA1 and 997 reports and generate the interchange TA1 and functional group 997 acknowledgments.</li> <li>• EDIFACTEnvelope business process applies an EDIFACT envelope to one or more EDIFACT messages and then uses the envelope data to translate and process them.</li> </ul>	Configure the predefined business processes as necessary.
IBM® Sterling B2B Integrator Map Editor	<ul style="list-style-type: none"> <li>• Sterling B2B Integrator Map Editor wizard enables you to generate a file layout for you using the EDIFACT message that you select. Included in the EDIFACT map are groups, segments, composite elements, and elements that are defined by EDIFACT.</li> <li>• Properties dialog boxes that enable you to define and modify EDI map components for EDIFACT.</li> <li>• 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.</li> <li>• Additional mapping operations as needed.</li> </ul>	<ul style="list-style-type: none"> <li>• Download Sterling B2B Integrator Map Editor.</li> <li>• Create a map or maps to translate your EDIFACT messages.</li> </ul>
Correlation Search	Search by EDIFACT information.	Use the EDI Correlation search functionality to search for EDIFACT correlation information.
Reports	Report by EDIFACT standard	Use the EDI Translation Detail report to search for details of inbound and outbound EDIFACT messages and easily create useful reports on your inbound and outbound EDIFACT messaging.



## Prerequisite for Using EDIFACT

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

**Note:** This documentation is not intended to explain the EDIFACT standard.

---

## Use EDIFACT with Sterling B2B Integrator

### About this task

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

### Procedure

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



---

## Chapter 2. EDIFACT Business Processes

To help you accomplish your business goals, the Sterling B2B Integrator provides two predefined enveloping business processes that are used by Sterling B2B Integrator to implement EDIFACT processing: EDIFACTEnvelope and EDIFACTDeenvelope. These predefined business processes are initiated by services during EDIFACT processing and do not require you to modify them unless you want to use interchange and functional group CNTRL acknowledgments.

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

### **Business Process**

#### **Business Goals**

#### **EDIFACTDeenvelope**

Extracts EDI documents from an EDIFACT interchange and locates an associated contract, according to the content of the envelopes.

EDIFACTDeenvelope then starts the appropriate business process.

#### **EDIFACTEnvelope**

Applies an EDIFACT envelope to one or more EDIFACT messages and then uses the envelope data to translate and process them.

---

### **EDIFACTDeenvelope Business Process**

The EDI Deenvelope business process includes the EDI Deenveloping service to support non-printable characters as EDI delimiters and perform the following steps:

1. Splits documents into interchanges and puts delimiters sent in the ISA (or UNA) into process data.
2. Starts the EDIFACT Deenveloping, EDIFACT Deenveloping, or CII Deenveloping business processes, as appropriate.

If exceptions occur when running an EDI Deenvelope business process, the Sterling B2B Integrator generates an EDI Compliance Report.

This table lists the configuration parameters for the EDIFACTDeenvelope business process:

<b>Parameter</b>	<b>Default</b>	<b>Description</b>
Document Tracking	False	When document tracking is enabled for a business process, tracking information is carried with the message throughout the process, and the tracking information is persisted about the message regardless of the persistence level you configured globally for the Sterling B2B Integrator.
Start Mode	Async	The business process can be configured to execute in synchronous mode and asynchronous mode.

Parameter	Default	Description
Transaction	False	Indicates whether the transaction will be sent. False indicates that the transaction will not be sent.
Set onfault processing	False	Onfault processing allows the process to immediately execute the Sterling B2B Integrator fault activity specified in the process, even if the process has not yet reached that step in the process.  For example, if a process fails at step 3, but the on-fault activity is specified in step 7, if onfault processing is enabled, the process proceeds to the step 7 on-fault rather than halting at step 3.
Queue	4	Sterling B2B Integrator enables you to set performance optimizations by queue, defining queue levels to allocate resources. This number indicates the previously allocated queue level that you want for this business process model for processing.
Persistence Level	Full	The level of data to retain for generating a status report that describes each step that the business process completes. System default indicates that, for the data, configuration is already defined in the Sterling B2B Integrator to retain data.
Recovery Level	Manual	The level of recovery for this business process if the business process should halt during execution. Manual requires you to resume or restart the business process manually.
Document Storage Type	System Default	The level of document storage for messages that process when the business process runs. System Default specifies to store messages in the file system or database, according to how you configured archiving and purging in the Sterling B2B Integrator.
Life Span	Life Span Days — 2 Life Span Hours — 0 Life Span Type — System Level Removal Method — Archive	The length of time, in days and hours, to retain the data in the Sterling B2B Integrator, along with the life span type and removal method.
Complete by Deadline	None Available <b>Note:</b> To set a deadline you must change it in the business process.	Complete by – The deadline time, in hours and minutes, by which the business process must complete process once it starts. <ul style="list-style-type: none"><li>• First Notification: Hours and Minutes – Whether to receive notification before a business process deadline.</li><li>• Second Notification: Hours and Minutes – Whether to receive another notification before a business process deadline.</li></ul>

Parameter	Default	Description
Event Reporting Level	None	The level of event reporting that is retrieved for this business process when it runs. Full specifies to generate events for the business process, including the business process start and end time, start and end times for all services or services running as a result of this business process, and any resulting errors and exceptions.

The following BPML code makes up the EDI deenveloping business process:

```

<process name="EDIFACTDeenvelope">

  <rule name="ung_exists">
    <condition>UNG_I.DONE = 0</condition>
  </rule>

  <rule name="process_unh">
    <condition>UNG_FOUND = "false"</condition>
  </rule>

  <rule name="process_ung">
    <condition>UNG_FOUND = "true"</condition>
  </rule>

  <rule name="unh_exists">
    <condition>UNH_I.DONE = 0</condition>
  </rule>

  <rule name="contract">
    <condition>CONTRACT_FOUND = "YES"</condition>
  </rule>

  <rule name="generate_ack">
    <condition>GENERATE_CONTRL = "YES"</condition>
  </rule>

  <rule name="unh_ack">
    <condition>MessageType = "CONTRL"</condition>
  </rule>

  <sequence>
    <operation>
      <participant name="DeenvelopeUNB"/>
      <output message="Xout" >
        <assign to="." from="*"></assign>
      </output>
      <input message="Xin" >
        <assign to="." from="*"></assign>
      </input>
    </operation>

    <onFault code="Interchange-Non-Compliant">
      <choice>
        <select>
          <case ref="generate_ack" activity="generate_CONTRL_UNG" />
        </select>

        <sequence name="generate_CONTRL_UNG">
          <operation>
            <participant name="GenerateCONTRL"/>
            <output message="Xout">
              <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >

```

```

        <assign to="." from="*"></assign>
    </input>
</operation>
<operation>
    <participant name="EDIEncoder"/>
    <output message="Xout">
        <assign to="." from="*"></assign>
    </output>
    <input message="Xin" >
        <assign to="." from="*"></assign>
    </input>
</operation>
</sequence>
</choice>
</onFault>

<choice>
    <select>
        <case ref="process_ung" activity="developpe_ung"/>
        <case ref="process_unh" activity="developpe_unh"/>
    </select>

    <sequence name="developpe_ung">

        <sequence name="foreach_ung">
            <operation>
                <participant name="ForEachDocument"/>
                <output message="Xout">
                    <assign to="." from="*"></assign>
                    <assign to="ITERATOR_NAME">UNG_I</assign>
                    <assign to="DOCUMENT_NAME_PREFIX">GROUP</assign>
                </output>
                <input message="Xin" >
                    <assign to="." from="*"></assign>
                </input>
            </operation>

            <choice>
                <select>
                    <case ref="ung_exists" activity="process_ung"/>
                </select>

                <sequence name="process_ung">

                    <sequence name="developpe_ung_unh">
                        <operation>
                            <participant name="DeveloppeUNG"/>
                            <output message="Xout" >
                                <assign to="." from="*"></assign>
                            </output>
                            <input message="Xin" >
                                <assign to="." from="*"></assign>
                            </input>
                        </operation>

                        <operation>
                            <participant name="DeveloppeUNH"/>
                            <output message="Xout" >
                                <assign to="." from="*"></assign>
                            </output>
                            <input message="Xin" >
                                <assign to="." from="*"></assign>
                            </input>
                        </operation>

                        <onFault code="Group-Non-Compliant">
                            <assign to="BREAK">YES</assign>
                        </onFault>
                    </sequence>
                </choice>
            </sequence>
        </sequence>
    </choice>

```

```

</onFault>

<onFault code="Transaction-Non-Compliant">
  <assign to="BREAK">YES</assign>
</onFault>
</sequence>

<sequence name="ung_foreach_unh">
  <operation>
    <participant name="ForEachDocument"/>
    <output message="Xout">
      <assign to="." from="*"></assign>
      <assign to="ITERATOR_NAME">UNH_I</assign>
      <assign to="DOCUMENT_NAME_PREFIX">$UNG_I.NAME</assign>
    </output>
    <input message="Xin" >
      <assign to="." from="*"></assign>
    </input>
  </operation>

  <choice>
    <select>
      <case ref="unh_exists" activity="ung_process_unh"/>
    </select>

    <sequence name="ung_process_unh">

      <sequence name="ung_process_document">
        <choice>
          <select>
            <case ref="unh_ack" activity="reconcile_ack_UNG" />
          </select>
          <sequence name="reconcile_ack_UNG">
            <operation>
              <participant name="ReconcileCONTRL" />
              <output message="Xout" >
                <assign to="." from="*"></assign>
              </output>
              <input message="Xin" >
                <assign to="." from="*"></assign>
              </input>
            </operation>
          </sequence>
        </choice>

        <choice>
          <select>
            <case ref="contract"
activity="ung-unh_invoke_contract_workflow" />
          </select>
          <sequence name="ung-unh_invoke_contract_workflow">

            <!-- ***** -->
            <!-- Only send to child what is required -->
            <!-- ***** -->
            <operation name="release">
              <participant name="ReleaseService"/>
              <output message="Xout">
                <assign to="TARGET" from="string('message_to_child')"/>
              </output>
              <input message="Xin"/>
            </operation>

            <assign to="message_to_child"
from="/ProcessData/*[not(boolean(@SCIOBJECTID))]" />
            <assign to="message_to_child/PrimaryDocument"
from="PrimaryDocument/@*" />

```

```

        <operation>
            <participant name="InvokeBusinessProcessService" />
            <output message="Xout">
                <assign to="INVOKE_MODE">ASYNC</assign>
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
    </sequence>
</choice>
</sequence>

    <repeat ref="ung_foreach_unh"/>

    </sequence>
</choice>

</sequence>

    <repeat ref="foreach_ung"/>

</sequence>
</choice>
</sequence>

<choice>
    <select>
        <case ref="generate_ack" activity="generate_CONTRL_UNG" />
    </select>

    <sequence name="generate_CONTRL_UNG">
        <operation>
            <participant name="GenerateCONTRL"/>
            <output message="Xout">
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
        <operation>
            <participant name="EDIEncoder"/>
            <output message="Xout">
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
    </sequence>
</choice>

</sequence>

<sequence name="deenvelope_unh">
    <sequence>
        <operation>
            <participant name="DeenvelopeUNH"/>
            <output message="Xout" >
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
    </sequence>
</sequence>

```



```

        </input>
    </operation>

<onFault code="Transaction-Non-Compliant">
    <assign to="BREAK">YES</assign>
</onFault>
</sequence>

<choice>
    <select>
        <case ref="generate_ack" activity="generate_CONTRL_NO_UNG" />
    </select>

    <sequence name="generate_CONTRL_NO_UNG">
        <operation>
            <participant name="GenerateCONTRL"/>
            <output message="Xout">
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
        <operation>
            <participant name="EDIEncoder"/>
            <output message="Xout">
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
    </sequence>
</choice>

    <sequence name="foreach_deenveloped_unh">
        <operation>
            <participant name="ForEachDocument"/>
            <output message="Xout">
                <assign to="." from="*"></assign>
                <assign to="ITERATOR_NAME">UNH_I</assign>
                <assign to="DOCUMENT_NAME_PREFIX">SET</assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>

        <choice>
            <select>
                <case ref="unh_exists" activity="process_deenveloped_unh"/>
            </select>

            <sequence name="process_deenveloped_unh">
                <sequence name="process_document">
                    <choice>
                        <select>
                            <case ref="unh_ack" activity="reconcile_ack_NO_UNG" />
                        </select>
                        <sequence name="reconcile_ack_NO_UNG">
                            <operation>
                                <participant name="ReconcileCONTRL" />
                                <output message="Xout" >
                                    <assign to="." from="*"></assign>
                                </output>
                                <input message="Xin" >

```

```

        <assign to="." from="*"></assign>
    </input>
</operation>
</sequence>
</choice>

<choice>
    <select>
        <case ref="contract" activity="unh_invoke_contract_workflow" />
    </select>
    <sequence name="unh_invoke_contract_workflow">

<!-- ***** -->
<!-- Only send to child what is required -->
<!-- ***** -->
        <operation name="release">
            <participant name="ReleaseService"/>
            <output message="Xout">
                <assign to="TARGET" from="string('message_to_child')"/>
            </output>
            <input message="Xin"/>
        </operation>

        <assign to="message_to_child"
from="/ProcessData/*[not(boolean(@SCIObjID))]" />
        <assign to="message_to_child/PrimaryDocument"
from="PrimaryDocument/@*" />

        <operation>
            <participant name="InvokeBusinessProcessService" />
            <output message="Xout">
                <assign to="INVOKE_MODE">ASYNC</assign>
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>

    </sequence>
</choice>
</sequence>

<repeat ref="foreach_deenveloped_unh"/>

</sequence>
</choice>
</sequence>

</sequence>

</choice>
</sequence>
</process>

```

The following scenario shows how the EDIFACTDeenvelope business process can deenvelope EDIFACT documents:

1. The File System adapter collects a file from an EDIFACT collection folder and invokes the EDIFACTDeenvelope business process.
2. The EDI Deenveloping service determines that the file contains an EDIFACT document and starts the EDIFACTDeenvelope business process.

3. The EDIFACTDevelope business process removes the envelopes to make available the transaction set envelope for the EDIFACT document and determine the next action to perform.
4. For documents with CII Syntax Rule requirements, the EDIFACTDevelope business process parses the message group and uses the values indicated in the message group header to locate a matching envelope. The envelope then determines the next action to perform.

**Note:** If the EDIFACTDevelope business process does not locate a matching envelope, the business process stops. Sterling B2B Integrator generates an EDI Compliance Report that describes the reason that the EDIFACTDevelope business process could not locate the envelope.

---

## Before Using EDIFACTDevelope

### About this task

Before you use the EDIFACTDevelope business process, you must complete the following tasks:

### Procedure

1. Create the trading profile, including a contract.
2. Create necessary envelopes.
3. Create a business process that initiates the EDIFACTDevelope business processes.

When creating a business process that enables inbound ST (or UNH) envelopes to translate transactions when running EDIFACTDevelope business processes, consider the following:

- Delimiters sent in the ISA or UNA segments are placed into process data in Sterling B2B Integrator.
- The GPM makes available parameters that represent the delimiters, which you must configure to enable the envelopes to translate transaction.
- You must create an XPath expression that describes the location of envelopes and apply it to the Translation service.

---

## EDIFACTEnvelope Business Process

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

The EDIFACTEnvelope business processes performs the following primary activities:

1. Starting with one or more EDI documents, the EDIEnveloping services applies envelope properties at the document level to each document.
2. The EDIFACTEnvelope service takes one or more transaction sets and applies a functional group envelope.
3. The EDIFACTEnvelope 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.

This table lists the configuration parameters for the EDIFACTEnvelope business process:

Parameter	Default	Description
Document Tracking	False	When document tracking is enabled for a business process, tracking information is carried with the message throughout the process, and the tracking information is persisted about the message regardless of the persistence level you configured globally for the Sterling B2B Integrator.
Start Mode	Async	The business process can be configured to execute in synchronous mode and asynchronous mode.
Transaction	False	Indicates whether the transaction will be sent. False indicates that the transaction will not be sent.
Set onfault processing	False	Onfault processing allows the process to immediately execute the on-fault activity specified in the process, even if the process has not yet reached that step in the process.  For example, if a process fails at step 3, but the on-fault activity is specified in step 7, if onfault processing is enabled, the process proceeds to the step 7 on-fault rather than halting at step 3.
Queue	4	Sterling B2B Integrator enables you to set performance optimizations by queue, defining queue levels to allocate resources. This number indicates that previously allocated queue level that you want for this business process model for processing.
Persistence Level	System Default	The level of data to retain for generating a status report that describes each step that the business process completes. System default indicates that, for the data, configuration is already defined in the Sterling B2B Integrator to retain data.
Recovery Level	Manual	The level of recovery for this business process if the business process should halt during execution. Manual requires you to resume or restart the business process manually.
Document Storage Type	System Default	The level of document storage for messages that process when the business process runs. System Default specifies to store messages in the file system or database, according to how you configured archiving and purging in Sterling B2B Integrator.
Life Span	Life Span Days — 2  Life Span Hours — 0  Life Span Type — System Level  Removal Method — Archive	The length of time, in days and hours, to retain the data in the Sterling B2B Integrator, along with the life span type and removal method.

Parameter	Default	Description
Complete by Deadline	None Available <b>Note:</b> To set a deadline you must change it in the business process.	Complete by – The deadline time, in hours and minutes, by which the business process must complete process once it starts. <ul style="list-style-type: none"> <li>• First Notification: Hours and Minutes – Whether to receive notification before a business process deadline.</li> <li>• Second Notification: Hours and Minutes – Whether to receive another notification before a business process deadline.</li> </ul>
Event Reporting Level	Full	The level of event reporting that is retrieved for this business process when it runs. Full specifies to generate events for the business process, including the business process start and end time, start and end times for all services or services running as a result of this business processes, and any resulting errors and exceptions.

The following BPML code makes up the EDIFACTEnvelope business process:

```
<process name="EDIFACTEnvelope">
  <rule name="contract">
    <condition>CONTRACT_FOUND = "YES"</condition>
  </rule>
  <sequence>
    <sequence>
      <operation>
        <participant name="EnvelopeUNH" />
        <output message="Xout" >
          <assign to="." from="*"></assign>
        </output>
        <input message="Xin" >
          <assign to="." from="*"></assign>
        </input>
      </operation>
      <onFault code="Translation-Error-Some-Docs">
        <assign to="BREAK">YES</assign>
      </onFault>
      <onFault>
        <operation>
          <participant name="BPExceptionService"/>
          <output message="Xout" >
            <assign to="exceptionCode" from="'Translation Error'"/>
          </output>
          <input message="Xin"/>
        </operation>
      </onFault>
    </sequence>
    <operation>
      <participant name="EnvelopeUNG" />
      <output message="Xout" >
        <assign to="." from="*"></assign>
      </output>
      <input message="Xin" >
        <assign to="." from="*"></assign>
      </input>
    </operation>
    <operation>
      <participant name="EnvelopeUNB" />
      <output message="Xout" >
```

```

        <assign to="." from="*"></assign>
    </output>
    <input message="Xin" >
        <assign to="." from="*"></assign>
    </input>
</operation>

<choice>
    <select>
        <case ref="contract" activity="invoke_contract_workflow" />
    </select>
    <sequence name="invoke_contract_workflow">
        <operation>
            <participant name="InvokeBusinessProcessService" />
            <output message="Xout">
                <assign to="INVOKE_MODE">ASYNC</assign>
                <assign to="." from="*"></assign>
            </output>
            <input message="Xin" >
                <assign to="." from="*"></assign>
            </input>
        </operation>
    </sequence>
</choice>

</sequence>
</process>

```

---

## Before Using the EDIFACTEnvelope Business Process

### About this task

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

### Procedure

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

---

## Chapter 3. EDIFACT 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 EDIFACT 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:

- EDIFACT Inbound Syntax 4 UNG UNE Envelope Properties, Group Level
- EDIFACT Inbound Syntax 4 UNB UNZ Envelope Properties, Interchange Level
- EDIFACT Inbound Syntax 4 UNH UNT Envelope Properties, Transaction Level
- EDIFACT Outbound Syntax 4 UNG UNE Envelope Properties, Group Level
- EDIFACT Outbound Syntax 4 UNB UNZ Envelope Properties, Interchange Level
- EDIFACT Outbound Syntax 4 UNH UNT 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 EDIFACT 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.

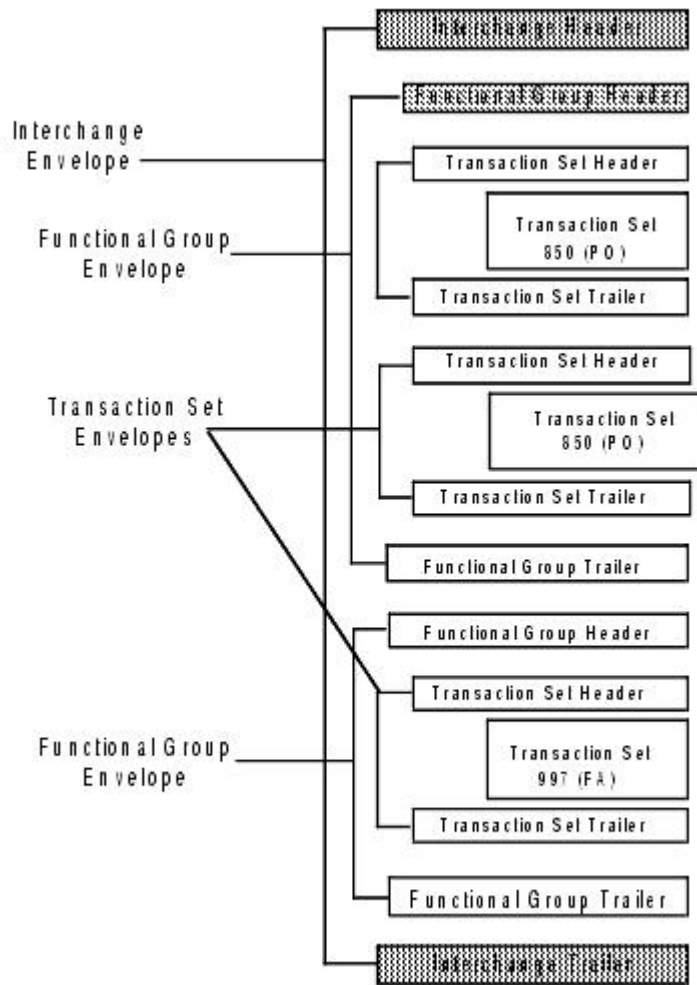
---

## Envelope Structure

Sterling B2B Integrator supports the use of many EDI protocols, including EDIFACT. The EDIFACT 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.

This illustration shows the structure for the protocols that have 3 levels of envelopes:



## 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 the 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 the 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 the 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.

---

## Using Wildcards in EDI Enveloping and EDI Deenveloping services

As a way to help reduce the number of envelopes you need to create and use, the EDI Enveloping and EDI Deenveloping services support use of an asterisk (\*) as a wildcard character in mandatory envelope fields for the EDIFACT standard. For optional fields, the wildcard value is leaving the field blank. With EDI Enveloping, for optional fields, the wildcard value is equivalent to leaving the field blank. If certain trading partners have specific requirements, you can create envelopes that pertain just to them, and the EDI Enveloping service chooses the envelope that is the best match. That is, the envelope that has the most matches to specific fields in the data (for example, Receiver ID and Receiver ID Qualifier), is the one selected.

### Wildcards in Deenveloping (Inbound)

The EDI Deenveloping service receives data, parses the headers, and extracts the EDI information from it. The service searches the available envelopes for the closest match to the EDI data.

When setting up enveloping with wildcards, consider the following:

- The Deenveloping service selects the envelope that matches the EDI data most closely. For example, if an envelope has the same Transaction ID as the incoming data, and another envelope has wildcards in all mandatory fields, the envelope with the matching Transaction ID is used.
- Sender ID and Receiver ID have priority over other EDI fields. For example, two envelopes are found that have a field that matches one EDI field from the data. One envelope matches the value in the Receiver ID field from the data; the other matches the Transaction ID field. The envelope that has the matching Receiver ID is selected by the service and used for processing.
- If no envelopes are found that have an exact match to fields in the EDI data, and an envelope with wildcards does exist, the envelope with wildcards is used.
- If multiple envelopes have the same matching information (for example, two envelopes match the Sender ID and Receiver ID exactly) the service ends with an error.
- The wildcard character is an “all or nothing” parameter. That is, if using asterisk, you cannot enter other characters in the field with it. For example, you can not enter Me\* to match MeaslesAnimalHaven and Medeira Foods.

### Wildcards in Enveloping (Outbound)

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. You can override wildcards with

specific EDI values in outbound processing. You must supply the EDI data to the business process and the data must be in the correct format (that is, name/value pairs).

One option is to use the lightweight JDBC adapter to pull fields in from database tables. Whatever method you choose to retrieve the fields, the results must be given to the Correlation service, which places them into process data. Passing the data to the Correlation service must be the last step in the business process before running the EDI Encoder service. When the EDI Encoding service runs, it uses the same best-match process detailed in the Inbound section to determine which envelope to use. When the EDIFACT envelope service runs, any envelope field values set in the Correlation service overrides those values defined in the envelope definition.

When setting up your outbound processing, consider the following:

- If an envelope field contains a wildcard, you must supply a correlation value for it or the service halts with an error.
- You can override wildcard values in an envelope by using the Correlation service to pass name/value pairs from the primary document to the EDI Encoder service.
- If an envelope contains specific values in the Sender ID, Sender ID Qualifier, Receiver ID, or Receiver ID Qualifier fields (that is, values other than a wildcard), the values passed from the Correlation service to the EDI Encoder service do not overwrite the values in the fields.
- If you are using the same envelope for inbound processing and acknowledgements, supply the Sender ID, Receiver ID, and Qualifiers in the envelope so that they are not overwritten by the correlation values.

---

## Create an EDIFACT 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 **EDIFACT** 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 EDIFACT 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 EDIFACT Envelope

### About this task

**Note:** Before deleting a base envelope, consider the impact on all related envelopes (envelopes that inherited the base envelope properties).

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. EDIFACT Inbound Syntax 4 UNB UNZ Envelope Properties, Interchange Level

**Note:** An (\*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, 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 EDIFACT inbound Syntax 4 UNB UNZ envelope properties at the interchange level:

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

\* **Sender ID**

Interchange ID as it should appear on the interchange header segment sent to this company or division. Valid value is 12 standard characters. Required.

\* **Sender Organization**

The sender organization. Optional for envelopes managed by the Sterling B2B Integrator.

\* **Identification Code Qualifier (Sender ID)**

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

\* **Interchange Sender Internal Identification**

Internal interchange ID as it should appear on the interchange header segment sent to this company or division. Valid value is 12 standard characters. Optional.

\* **Interchange Sender Internal Sub-identification**

Sub-interchange ID as it should appear on the interchange header segment sent to this company or division. Valid value is 12 standard characters. Optional.

\* **Recipient ID**

Interchange ID as it should appear on the interchange header segment received from this company or division. Valid value is 12 standard characters. Required.

\* **Receiver Organization**

The receiver organization. Optional for envelopes managed by the Sterling B2B Integrator.

\* **Identification Code Qualifier (Recipient ID)**

Coded qualifier of the recipient ID as it should appear on the interchange header segment received from this company or division. Valid value is four standard characters. Optional.

\* **Interchange Recipient Internal Identification**

Internal interchange ID as it should appear on the interchange header segment received from this company or division. Valid value is 12 standard characters. Optional.

**\* Interchange Recipient Internal Sub-identification**

Sub-interchange ID as it should appear on the interchange header segment received from this company or division. Valid value is 12 standard characters. Optional.

**\* Test Indicator**

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

- None (default)
- Test
- Syntax Only Test
- Echo Request
- Echo Response
- Any Indicator (wildcard)

**Use global control number**

Whether this envelope definition must use a global control number to uniquely identify transactions. No indicates that the envelope definition must use its local global control number. Required. Valid values are:

- Yes (default)
- Yes (and generate name from data)
- No

**\* Global Group Reference Number**

The global group reference number. This parameter is displayed only when **Use global control number** is set to **Yes**. The value entered here is the name of the global control number file. Required.

**\* Local Group Reference Number**

The local group reference number. This parameter is displayed only when **Use global control number** is set to **No**. The value entered here is numeric from one to fourteen digits. Required.

**Perform Control Number Sequence Checking**

Performs an incremental sequence check. Required. Valid values are Yes and No (default).

**Perform Duplicate Control Number Checking**

Determine control number duplications. Required. Valid values are Yes and No (default).

**If sequence or duplicate checking, EDI Post Processor should**

How the EDI Post Processor service should perform sequence and duplicate checking. When multiple interchanges for the same trading partner are processed in parallel, subprocesses 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 and the default)
- 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.

**Retain Enclosing Envelope**

Whether to copy the envelope segments (UNB and UNZ) into each group or message extracted from the interchange. Required. Valid values are Yes and No.

**Business Process for Non-Compliant Documents**

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

**Primary Name Format**

Information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information options include:

- Test Indicator

**\* Global Interchange Control Reference**

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

**Handling of non-compliant Interchanges**

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

- Accept
- Reject (default)

**Generate an acknowledgement**

Generate an acknowledgement that notifies the sender that the receiver has received either a non-compliant interchange or an interpretable interchange transmission. Required. Valid values are Yes (default) and No.

**Acknowledgement Detail Level**

Level of detail to which acknowledgements are sent. If you select Segment level, the segment and message levels are acknowledged. Optional.

Valid values are:

- Interchange Level
- Group Level
- Message Level
- Segment Level
- Data Element Level (default)

**Send acknowledgement immediately**

Send specified level of acknowledgement immediately after interchange transmission occurs. Valid values are Yes and No (default). Required.

**Acceptor Lookup Alias format for generated CONTRLs**

The format of acceptor lookup alias for generated CONTRL messages. Optional. Valid values are:

- CONTRL (default)
- CONTRL\_[syntax version]
- CONTRL\_[test\_indicator]
- CONTRL\_[syntax version]\_[test\_indicator]
- [message type (first one if multiple)]

**\* Local Interchange Control Reference**

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

**Write S002 and S003 subelements**

Whether to write the S002 (Interchange Sender) and S003 (Interchange Receiver) subelements. Valid values are Yes and No (default). Required.

**Syntax 1,2,3 Action Response (UCI 0083)**

This parameter is valid if you are using EDIFACT Syntax 3 or lower, and UNB 0031 is set to one (or Generate Acknowledgements is selected). Allows you to send receipt for UCI 0083. Optional. Valid values are:

- Acknowledged or Rejected (compliance based) (default)
- Received



---

## Chapter 5. EDIFACT Inbound Syntax 4 UNG UNE Envelope Properties, Group Level

**Note:** An (\*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, 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 EDIFACT inbound Syntax 4 UNG UNE envelope properties at the group level:

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

\* **Sender ID**

Interchange ID as it should appear on the message group header sent to this company or division. Valid value is 12 standard characters. Required.

\* **Sender Organization**

The sender organization. Optional for envelopes managed by the Sterling B2B Integrator.

\* **Identification Code Qualifier (Sender ID)**

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. Optional.

\* **Recipient ID**

Interchange ID as it should appear on the message group header received from this company or division. Valid value is 12 standard characters. Required.

\* **Receiver Organization**

The receiver organization. Optional for envelopes managed by the Sterling B2B Integrator.

\* **Identification Code Qualifier (Recipient ID)**

Coded qualifier of the recipient ID as it should appear on the message group header received from this company or division. Valid value is four standard characters. Optional.

**Use global control number**

Whether this envelope definition must use a global control number to uniquely identify message group headers. No indicates that the envelope definition must use its own global control number. Required. Valid values are:

- Yes (default)
- Yes (and generate name from data)
- No

**Perform Control Number Sequence Checking**

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

**Perform Duplicate Control Number Checking**

Determine control number duplications. Required. Valid values are Yes and No (default).

**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**

Copy the envelope segments (UNB and UNZ) into each message extracted from the message group header. Required. Valid values are Yes and No.

**Primary Name Format**

Information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message Type
- Message Version and Release Number
- Test Indicator

Check each that you want to use in the format.

**Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

**Backup Name Format**

Check boxes to indicate what information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message type
- Message version and release number
- Test Indicator

Check each that you want to use in the format.

**Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

**Backup Name Format**

Check boxes to indicate what information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message type
- Message version and release number
- Test Indicator

Check each that you want to use in the format.

**Handling of Non-Compliant Groups**

Process to follow when non-compliant message group headers 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. Required.

**Use Security**

Turns on AUTACK security for the group. The AUTACK inbound transaction envelope will store the certificate reference or the way the certificate can be generated from the data used in validating the digital signature for the group.

Use previously checked in trusted certificates to verify a secured document transmission. Valid values are Yes and No (default). Required.

**Note:** This option must be set to Yes when using secure AUTACK messages in EDIFACT.

**This is the AUTACK Group Envelope**

Specify whether this envelope is the AUTACK group envelope. Valid values are Yes and No (default). Required.

**Note:** Only displayed if Use Security is set to Yes.



---

## Chapter 6. EDIFACT Inbound Syntax 4 UNH UNT Envelope Properties, Transaction Level

**Note:** An (\*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, 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 EDIFACT inbound Syntax 4 UNH UNT envelope properties at the transaction level:

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

\* **Sender ID (from group or interchange)**

Interchange ID as it should appear on the transaction sent to this company or division. Valid value is 12 standard characters. Required.

\* **Sender Organization**

The sender organization. Optional for envelopes managed by the Sterling B2B Integrator.

**Identification Code Qualifier (from group or interchange)**

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

\* **Recipient ID (from group or interchange)**

Interchange ID as it should appear on the transaction received from this company or division. Valid value is 12 standard characters. Required.

\* **Receiver Organization**

The receiver organization. Optional for envelopes managed by the Sterling B2B Integrator.

**Identification Code Qualifier (from group or interchange)**

Coded qualifier of the recipient ID as it should appear on the from group or interchange header segment sent to this company or division. Valid value is four standard characters. Optional.

\* **Message Type**

Transaction message type as determined by the information type in the header of the message group, which includes the message or by the information type in the transaction message. Valid value is six standard characters. Required.

If using AUTACK, create a separate AUTACK inbound transaction envelope with a message type of AUTACK so you can configure the trusted certificate you want to use when validating the digital signature.

\* **Message Version Number**

Version number of the standard message. Valid value is three standard characters. Required.

\* **Message Release Number (Required for EDIFACT, optional for ODETTE)**

Release number of the standard message. Valid value is three standard characters. Required for EDIFACT. Optional for ODETTE.

**\* Controlling Agency, Coded**

Agency controlling the code representing the name of the sending EDI service provider and relaying the message group on the sending side. Valid value is alphanumeric code with three standard characters. Optional.

**\* Association Assigned Code**

Assigned associated code for the agency controlling the name of the sending EDI service provider and relaying the message group on the sending side. Valid value is alphanumeric code with six standard characters. Optional.

**\* Message Type Sub-Function Identification**

Coded identifier of a sub-function of a message type. Valid value is six standard characters. Optional.

**Use global control number**

Whether this envelope definition must use a global control number to uniquely identify transactions. No indicates that the envelope definition must use its own global control number. Required. Valid values are:

- Yes
- Yes (and generate name from data)
- No

**Test Indicator**

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

- None (default)
- Test
- Syntax Only Test
- Echo Request
- Echo Response
- 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. Required. Valid values are Yes and No (default).

**Perform Duplicate Control Number Checking**

Determine control number duplications. Required. Valid values are Yes and No (default).

**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**

Copy the envelope segments (UNB and UNZ) into each message extracted from the transaction. Required. Valid values are Yes (default) and No.

**Batch transactions received within a functional group into one output document.**

Put 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 (default) and No. The default is to output each transaction to a separate document. Required.

**Primary Name Format**

Check boxes to instruct what information to include when generating a

name for a primary global control number and finding the correct number to assign based on that name. Optional.

Select from:

- Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated global control number (**Use global control number** is set to Yes (and generate name from data)), the Sterling B2B Integrator tries to generate and match the following control numbers:

- First, it tries to generate and match the control number in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing control number that matches the names generated in steps 1-3, a control number with the name assigned in the first step is created.

#### **Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

#### **Backup Name Format**

The first backup name format to use when generating a global control number. The system allows for two alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format. Optional.

Select from:

- Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated global control number (**Use global control number** is set to Yes (and generate name from data)), the Sterling B2B Integrator tries to generate and match the following control numbers:

- First, it tries to generate and match the control number in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing control number that matches the names generated in steps 1-3, a control number with the name assigned in the first step is created.

#### **Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

#### **Backup Name Format**

The second backup name format to use when generating a global control number. The system allows for two alternatives if the Primary Name

Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format. Optional.

Select from:

- Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated global control number (**Use global control number** is set to Yes (and generate name from data)), the Sterling B2B Integrator tries to generate and match the following control numbers:

- First, it tries to generate and match the control number in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing control number that matches the names generated in steps 1-3, a control number with the name assigned in the first step is created.

#### **Global Message Reference Number**

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

#### **Handling of non-compliant Messages**

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 (default)

#### **Compliance Check Document**

Check the transaction set body for compliance. Valid values are Yes (default) and No. Required.

**Note:** This only applies to data compliance, not to security/certificate compliance.

#### **Map Name Mode**

How to determine which map to use to perform a compliance check. Required. Valid values are:

- Specify (default)
- Generate from data (this is useful if you want to share across envelopes)

**Note:** If you select this option, you must select at least one parameter for Primary Name Format.

#### **Map Name**

Which map to use to perform a compliance check (if **Compliance Check document** is set to Yes and **Map Name Mode** set to Specify). The map must already be checked in to the Sterling B2B Integrator. Optional.



### Primary Name Format

Check boxes to instruct what information to include when generating and matching a name for the map. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated map name (**Map Name Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following maps:

- First, it tries to generate and match the map in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing map that matches the names generated in steps 1-3, an error is generated.

Only occurs if **Generate an error if no generated map name exists in the system** is set to Yes.

### Use first backup name format

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

### Backup Name Format

The first backup name format to use when generating a map name. The system allows for two alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated map name (**Map Name Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following maps:

- First, it tries to generate and match the map in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing map that matches the names generated in steps 1-3, an error is generated.

Only occurs if **Generate an error if no generated map name exists in the system** is set to Yes.

#### **Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

#### **Backup Name Format**

The second backup name format to use when generating a map name. The system allows for two alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated map name (**Map Name Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following maps:

- First, it tries to generate and match the map in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing map that matches the names generated in steps 1-3, an error is generated.

Only occurs if **Generate an error if no generated map name exists in the system** is set to Yes.

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

Specifies whether to generate an error if the Map Name selected is not found. Valid values are Yes (default) and No.

**Note:** Only displayed if **Map Name Mode** is set to Generate from data.

#### **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. Valid values are Yes and No (default).

**Validate translation output**

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

**Determine the Business Process by**

Select a business process that should run with messages as the primary document. Optional.

Valid values are:

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

**For each document**

As specified in the Determine the Business Process. Required. Valid values are:

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

**Primary Name Format**

Check boxes to instruct what information to include when generating and matching a name for the business process. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine the Business Process By** is set to Generating the business process name from the data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the first Backup Name.
- Third, it tries to generate and match the second Backup Name.
- Fourth, if there is not an existing business process that matches the names generated in steps 1-3, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

**Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

### Backup Name Format

The first backup name format to use when generating a business process name. The system allows for two alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine Business Process Name By** is set to Generating a Business Process name from the data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing business process that matches the names generated in steps 1-3, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

### Use second backup name format

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

### Backup Name Format

The second backup name format to use when generating a business process name. The system allows for two alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine Error Business Process Name By** is set to Generating a Business Process name from the data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, if there is not an existing business process that matches the names generated in steps 1-3, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

**Generate an error if no generated business process name exists in the system**  
Specify whether to generate an error if there is no match to the generated business process name in the system. Valid values are Yes (default) and No.

**Note:** Only displayed if **Determine the Business Process By** is set to Generating the business process name from the data.

#### **Contract List**

Select a previously created contract to associate with this envelope.

#### **Business Process List**

Select a previously created business process to associate with this envelope  
Optional.

Displayed only if **Determine the Business Process Name** is set to Specifying the business process.

#### **Extraction Options**

Business process data extraction. Required.

Valid values:

- Determined by business process (default)
- 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. Required.

#### **Data Extraction Mailbox Message Name**

Mailbox message name for data extraction. Optional.

#### **Error Business Process Mode**

How to determine the business process name to use if there were errors in the compliance check. Required. Valid values are:

- Specifying a Business Process name (default)
- Generating a Business Process name from the data (this is useful if you want to share across envelopes)

**Note:** If you select this option, you must select at least one parameter for Primary Name Format. The generated name will end with FIN.

### Primary Name Format

Check boxes to instruct what information to include when generating and matching a name for the error business process name. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated error business process name (**Error Business Process Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

### Use first backup name format

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

### Backup Name Format

The first backup name format to use when generating an error business process name. The system allows for three alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format, and then, if that is not found, checking for the Third Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated error business process name (**Error Business Process Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

#### **Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

#### **Backup Name Format**

The second backup name format to use when generating an error business process name. The system allows for three alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format, and then, if that is not found, checking for the Third Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated error business process name (**Error Business Process Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

### Use third backup name format

Whether to use the third backup name format (specified below). The default is selected (use the third backup name format).

### Backup Name Format

The third backup name format to use when generating an error business process name. The system allows for three alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format, and then, if that is not found, checking for the Third Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated error business process name (**Error Business Process Mode** is set to Generate from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

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

Specify whether to generate an error if there is no match to the generated business process name in the system. Valid values are Yes (default) and No.

**Note:** Only displayed if **Error Business Process Mode** is set to Generate from data.

### Business Process List

Select a previously created business process to associate with this envelope. Optional.

Displayed only if **Determine Error Business Process Name By** is set to Specifying the business process.

### Use Security

Use previously checked in trusted certificates to verify a secured document transmission. Valid values are Yes and No (default). Required.



**Note:** This option must be set to Yes when using secure AUTACK messages in EDIFACT.

**Scope of Security Application**

Used for AUTACK security only. Security header and message body referenced in the digital certificate. Required. Valid values are:

- 1 - Security header and message body. Use this option if you want the AUTACK embedded in the transaction that it is securing.
- 3 - Whole related message, package, group, or interchange. Use this option if you want the AUTACK to reference the data transaction or the group it is securing. When selecting this option, you have two options for certificate parameters:
  - Use a certificate in USC segment or generate a certificate name
  - Use a specified certificate only

**Security Certificate**

Select a previously checked in system certificate to associate with this envelope. Required.



---

## Chapter 7. EDIFACT Outbound Syntax 4 UNB UNZ Envelope Properties, Interchange Level

**Note:** An (\*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, 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 EDIFACT outbound Syntax 4 UNB UNZ envelope properties at the interchange level:

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

<b>* Syntax Identifier</b>	
----------------------------	--

	Coded identifier of syntax rules. Valid value is four standard characters. Required.
--	--

<b>* Syntax Version Number</b>	
--------------------------------	--

	Version number of syntax rules. Typically, this value is 1. Valid value is one standard character. Required.
--	--

<b>* Service Code List Directory Version Number</b>	
---	--

	Version number of the service code list directory. Optional.
--	--

<b>* Character Encoding, Coded</b>	
------------------------------------	--

	Coded character encoding used in the interchange. Optional.
--	---

<b>* Sender ID</b>	
--------------------	--

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

<b>* Sender Organization</b>	
------------------------------	--

	The sender organization. Optional for envelopes managed by the Sterling B2B Integrator.
--	---

<b>* Identification Code Qualifier (Sender ID)</b>	
--	--

	Coded qualifier of the sender ID as it should appear on the interchange header segment sent to this company or division. Valid value is four standard characters. Optional.
--	---

<b>* Interchange Sender Internal Identification</b>	
---	--

	Internal interchange ID as it should appear on the interchange header segment sent to this company or division. Valid value is 12 standard characters. Optional.
--	--

<b>* Interchange Sender Internal Sub-identification</b>	
---	--

	Internal interchange sub ID as it should appear on the interchange header segment sent to this company or division. Valid value is 12 standard characters. Optional.
--	--

<b>* Recipient ID</b>	
-----------------------	--

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

<b>* Receiver Organization</b>	
--------------------------------	--

	The receiver organization. Optional for envelopes managed by the Sterling B2B Integrator.
--	---

\* **Identification Code Qualifier (Recipient ID)**

Coded qualifier of the recipient ID as it should appear on the interchange header segment sent to this company or division. Valid value is three standard characters. Optional.

\* **Interchange Recipient Internal Identification**

Internal interchange ID as it should appear on the interchange header segment received from a company or division. Valid value is 12 standard characters. Optional.

\* **Interchange Recipient Internal Sub-identification**

Internal interchange sub ID as it should appear on the interchange header segment received from a company or division. Valid value is 12 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 control number to uniquely identify transactions. No indicates that the envelope definition must use its own global control number. Optional. Valid values are:

- Yes (default)
- Yes (and generate name from data)
- No

\* **Recipient Reference/Password**

Reference or password as agreed between the communicating trading partners. Optional.

\* **Recipient Reference/Password Qualifier**

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

\* **Application Reference**

Reference identifier of the application used by the sender. Valid value is 15 standard characters. Optional.

- \* **Processing Priority Code**  
Code determined by the sender requesting processing priority for the interchange. Optional.
- \* **Acknowledgement Request**  
Request an acknowledgement that notifies the sender that the receiver has received an interpretable interchange transmission. Optional.
- \* **Acknowledgement overdue after (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.
- \* **Interchange Agreement Identifier**  
Identification by name or code of the type of agreement under which the interchange takes place. Optional.
- \* **Test Indicator**  
The structural level in the envelope containing the test indicator is a test. Optional.
- \* **Global Interchange Control Reference**  
Interchange control reference number used globally. Select a previously defined number to reference. Valid value is nine standard characters. Required.
- \* **Local Interchange Control Reference**  
Interchange control reference number used locally. Select a previously defined number to reference. Valid value is nine standard characters. Required. Default is 1.

**Primary Name Format**

Information to include when generating a name for a primary global number and finding the correct number to assign based on that name. Information includes:

- Test Indicator

Check the appropriate information to use in the format. Optional.

**Maximum number of documents per interchange**

Maximum number of documents per interchange. 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, INVOIC for the EDIFACT 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 (bytes)**

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 173 bytes based on the header and trailer size for EDIFACT 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.

**Specify Non-Standard delimiters**

Delimiters other than the default delimiters. Valid values are Yes and No (default). Required.

**UNA Segments**

Incorporate UNA segments in this envelope. Valid values are Yes and No (default). Required.

**Stream Segments**

Insert an end-of-line character after each segment record. Valid values are Yes and No (default). Required.

**Data Element Separator**

EDI delimiter to use to separate elements. Optional.

**Segment Terminator**

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

**Component Element Separator**

EDI delimiter used to separate components. Optional.

**Release Character**

Character to use to release an EDI delimiter. Optional.

**Repetition Separator**

Character to use to separate a group of repeated elements. Optional.

**Decimal Separator**

Character to use to identify different multi details. Optional.

**Encode Document**

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

**Encoding**

Type of character encoding for the message group that includes this header. This field is used with the Encoding field. Valid value is six standard characters. Required only if Encode Document is set to Yes.

**Determine the Business Process by**

Select a business process that should run with extracted EDIFACT outbound Syntax 4 UNB/UNZ messages as the primary document. Required.

Valid values:

- Looking up contract dynamically
- 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**

Check boxes to instruct what information to include when generating and matching a name for the business process name. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine the business process by** is set to Generating the business process name from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

#### **Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

#### **Backup Name Format**

The first backup name format to use when generating a business process name. The system allows for three alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format, and then, if that is not found, checking for the Third Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine the business process by** is set to Generating the business process name from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

#### **Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

#### **Backup Name Format**

The second backup name format to use when generating a business process name. The system allows for three alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format, and then, if that is not found, checking for the Third Backup Name Format. Optional.

Select from:

- EDI Standard



- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine the business process by** is set to Generating the business process name from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

#### **Use third backup name format**

Whether to use the third backup name format (specified below). The default is selected (use the third backup name format).

#### **Backup Name Format**

The third backup name format to use when generating a business process name. The system allows for three alternatives if the Primary Name Format is not found—checking for the First Backup Name Format and then, if that is not found, checking for the Second Backup Name Format, and then, if that is not found, checking for the Third Backup Name Format. Optional.

Select from:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- (0065) Message Type
- Message Version and Release Number
- Test Indicator

**Note:** If you are using a generated business process name (**Determine the business process by** is set to Generating the business process name from data), the Sterling B2B Integrator tries to generate and match the following business process:

- First, it tries to generate and match the business process in the primary name format (replacing the values that are selected for the corresponding value in the message).
- Second, it tries to generate and match the First Backup Name.
- Third, it tries to generate and match the Second Backup Name.
- Fourth, it tries to generate and match the Third Backup Name.
- Fifth, if there is not an existing business process that matches the names generated in steps 1-4, an error is generated.

Only occurs if **Generate an error if no generated business process name exists in the system** is set to Yes.

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

Generate an error message if it cannot locate the specified business process name. Valid values are Yes (default) and No.

**Extraction Options**

Required. Valid values are:

- Determined by a business process (default)
- 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. Required.

**Data Extraction Mailbox Message Name**

Mailbox message name for data extraction. Optional.

---

## Chapter 8. EDIFACT Outbound Syntax 4 UNG UNE Envelope Properties, Group Level

**Note:** An (\*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, 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 EDIFACT outbound Syntax 4 UNG UNE envelope properties at the group level:

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

<b>Next Envelope</b>	
----------------------	--

Specifies envelope to use after this envelope. Required.

<b>Create Next Envelope</b>	
-----------------------------	--

Adds group level envelope to use as next envelope or edits an exiting envelope. Optional.

<b>* Sender ID</b>	
--------------------	--

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

<b>* Sender Organization</b>	
------------------------------	--

The sender organization. Optional for envelopes managed by the Sterling B2B Integrator.

<b>* Identification Code Qualifier (Sender ID)</b>	
--	--

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

<b>* Recipient ID</b>	
-----------------------	--

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

<b>* Receiver Organization</b>	
--------------------------------	--

The receiver organization. Optional for envelopes managed by the Sterling B2B Integrator.

<b>* Identification Code Qualifier (Recipient ID)</b>	
---	--

Coded qualifier of the recipient ID as it should appear on the interchange header segment sent to this company or division. Valid value is four standard characters. Optional.

<b>Use Correlation Overrides</b>	
----------------------------------	--

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 group number to uniquely identify transactions. No indicates that the envelope definition must use its own global group number. Required. Valid values are:

- Yes
- Yes - Generate name from data
- No

#### **\* Controlling Agency, Coded**

Agency controlling the code representing the name of the sending EDI service provider and relaying the message group on the sending side. Valid value is alphanumeric code with three standard characters. Optional.

#### **\* Application Password**

Password used to access the application of the receiver. Valid value is 15 standard characters. Optional.

#### **Primary Name Format**

Information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message Type
- Message Version and Release Number
- Test Indicator

Check each that you want to use in the format.

#### **Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

#### **Backup Name Format**

Check boxes to indicate what information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message type
- Message version and release number
- Test Indicator

Check each that you want to use in the format.

#### **Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

**Backup Name Format**

Check boxes to indicate what information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message type
- Message version and release number
- Test Indicator

Check each that you want to use in the format.

**\* Global Group Reference Number**

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

**Use Security**

Use previously checked in trusted certificates to verify a secured document transmission. Valid values are Yes and No. Required.

**Note:** This option must be set to Yes when using secure AUTACK messages in EDIFACT.

**This is the AUTACK Group Envelope**

Specify whether this envelope is the AUTACK group envelope. Valid values are Yes and No (default). Required.

**Note:** Only displayed if Use Security is set to Yes.

**Security Certificate**

The security certificate. Default is B2BHttp. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

**Security Algorithm**

The algorithm for security purposes. Default is MD5 with RSA. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

**Use of Algorithm**

How the algorithm should be used. Default is 1-Owner Hashing. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

**Security Service**

The service provided by the selected security. Default is Non-repudiation of origin. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

**Scope of Security Application**

The scope of the security application (what it checks). Default is 3 - Whole related message, package, group or interchange. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

**Response Type**

The type of response. Default is 1- No acknowledgement. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

**Filter Function**

The type of filter used. Default is 2 - Hexadecimal Filter. Required.

**Note:** Only displayed if Use Security is set to Yes and This is the AUTACK Group Envelope is also set to Yes.

---

## Chapter 9. EDIFACT Outbound Syntax 4 UNH UNT Envelope Properties, Transaction Level

**Note:** An (\*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, 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 EDIFACT outbound Syntax 4 UNH UNT envelope properties at the transaction level:

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

**Sender ID**

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

**\* Sender Organization**

The sender organization. Optional for envelopes managed by the Sterling B2B Integrator.

**\* Identification Code Qualifier (Sender ID)**

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

**Recipient ID**

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

**\* Receiver Organization**

The receiver organization. Optional for envelopes managed by the Sterling B2B Integrator.

**\* Identification Code Qualifier (Recipient ID)**

Coded qualifier of the recipient ID as it should appear on the interchange header segment sent to this company or division. Valid value is three standard characters. Optional.

**Next Envelope**

Envelope to apply after this envelope. Required.

**Create Next Envelope**

Adds transaction level envelope to use as the next envelope. Optional. Valid values are:

- UNG/UNE Syntax 4
- UNB/UNZ Syntax 4

**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**

How to handle control numbers. Required. Valid values are:

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

#### **\* Message Type**

Transaction message type as determined by the information type in the header of the message group, which includes the message or by the information type in the transaction message. Valid value is six standard characters. Required.

#### **\* Message Version Number**

Version number of the standard message. Valid value is three standard characters. Required.

#### **\* Message Release Number (Required for EDIFACT, optional for ODETTE)**

Release number of the standard message. Valid value is three standard characters. Required for EDIFACT and AUTACK. Optional for ODETTE.

#### **\* Controlling Agency, Coded**

Agency controlling the code representing the name of the sending EDI service provider and relaying the message group on the sending side. Valid value is alphanumeric code with three standard characters. Optional.

#### **\* Association Assigned Code**

Assigned associated code for the agency controlling the name of the sending EDI service provider and relaying the message group on the sending side. Valid value is alphanumeric code with six standard characters. Optional.

#### **\* Code List Directory Version Number**

Previously defined version number of a code list to implement in this message. Valid value is numeric code with six limited standard characters. Optional.

#### **\* Message Type Sub-Function Identification**

Coded identifier of a sub-function of a message type. Valid value is six standard characters. Optional.

#### **\* Common Access Reference**

Key used for referencing related all subsequent transfers of data to the same business case or file. Optional.



**\* Sequence Of Transfers**

Number assigned by the sender indicating the transfer sequence of a message related to the same topic. The message could be an addition or a change to an earlier transfer related to the same topic. Valid value is two standard characters. Optional.

**\* First And Last Transfer**

First and last message in a sequence of messages related to the same topic. Valid value is one standard character. Optional.

**\* Message Subset Identification**

Coded identifier of a message subset by its identifier, version, release, and source. Valid value is 15 standard characters. Optional.

**\* Message Subset Version Number**

Version number of the message subset. Valid value is three standard characters. Optional.

**\* Message Subset Release Number**

Release number of the message subset. Valid value is three standard characters. Optional.

**Message Subset Controlling Agency, Coded**

Agency controlling the code representing the name of the message subset. Valid value is alphanumeric code with three standard characters. Optional.

**\* Message Implementation Guideline Identification**

Coded identifier of a message implementation guideline by its identifier, version, release, and source. Valid value is 14 standard characters. Optional.

**\* Message Implementation Guideline Version Number**

Version number of a message implementation guideline. Valid value is three standard characters. Optional.

**\* Message Implementation Guideline Release Number**

Release number of a message implementation guideline. Valid value is three standard characters. Optional.

**\* Message Implementation Controlling Agency, Coded**

Agency controlling the code representing the name of the message implementer. Valid value is alphanumeric code with three standard characters. Optional.

**\* Scenario Identification**

Coded identifier of a scenario by its identifier, version, release, and source. Valid value is 14 standard characters. Optional.

**\* Scenario Version Number**

Version number of a scenario. Valid value is three standard characters. Optional.

**\* Scenario Release Number**

Release number of a scenario. Valid value is three standard characters. Optional.

**Message Scenario Controlling Agency, Coded**

Agency controlling the code representing the message scenario. Valid value is alphanumeric code with three standard characters. Optional.

**Accepter 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.

#### **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 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, INVOIC for the EDIFACT standard) that can override the standard property.

#### **Specify Non-Standard Delimiters**

Whether you want to specify non-standard delimiters. Valid values are Yes and No (default). Required.

#### **Data Element Separator**

EDI delimiter to use to separate elements. Optional.

#### **Segment Terminator**

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

#### **Component Element Separator**

EDI delimiter used to separate components. Optional.

#### **Release Character**

Character to use to release an EDI delimiter. Optional.

#### **Repetition Separator**

Character to use to separate a group of repeated elements. Optional.

#### **Decimal Separator**

Character to use to identify different multi details. Optional.

#### **Stream Segments**

Insert an end-of-line character after each segment record. Valid values are Yes and No (default). Required.

#### **Primary Name Format**

Information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional.

Information includes:

- Message Type
- Message Version and Release Number
- Test Indicator

Check each that you want to use in the format.

**Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

**Backup Name Format**

Check boxes to indicate what information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message type
- Message version and release number
- Test Indicator

Check each that you want to use in the format.

**Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

**Backup Name Format**

Check boxes to indicate what information to include when generating a name for a global number and finding the correct number to assign based on that name. Optional. Information includes:

- Message type
- Message version and release number
- Test Indicator

Check each that you want to use in the format.

**Global Message Reference Number**

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

**Local Message Reference Number**

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

**Maximum Interchange Size (bytes)**

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 173 bytes based on the header and trailer size for EDIFACT 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 a compliance check. Valid values are:

- Specify
- Generate from data

**Map Name**

Select the map to be used to perform a compliance check. The map must already be checked in. Optional.

**Primary Name Format**

Information to include when generating a name for a map and finding the correct number to assign based on that name. Information may include some or all of the following:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- Message Type
- Message Version and Release Number
- Test Indicator

Check all that you want to use in the format. Optional.

**Use first backup name format**

Whether to use the first backup name format (specified below). The default is selected (use the first backup name format).

**Backup Name Format**

Information to include when generating a name for a map and finding the correct number to assign based on that name. Information may include some or all of the following:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- Message Type
- Message Version and Release Number
- Test Indicator

Check all that you want to use in the format. Optional.

**Use second backup name format**

Whether to use the second backup name format (specified below). The default is selected (use the second backup name format).

**Backup Name Format**

Information to include when generating a name for a map and finding the correct number to assign based on that name. Information may include some or all of the following:

- EDI Standard
- Sender ID Code Qualifier
- Sender ID
- Recipient ID Code Qualifier
- Recipient ID
- Message Type
- Message Version and Release Number
- Test Indicator

Check all that you want to use in the format. Optional.

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

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

**Validate translation input**

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

**Validate translation output**

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

**Use Security**

Use previously checked in trusted certificates to verify a secured document transmission. Valid values are Yes and No (default). Required.

**Note:** This option *must* be set to Yes when using secure AUTACK messages in EDIFACT.

**Scope of Security Application**

Security header and message body referenced in the digital certificate. Required. Valid values are:

- 1 - Security header and message body (default)
- 3 - Whole related message, package, group, or interchange

**Note:** Only displayed if Use Security is set to Yes.

**Security Certificate**

Select a previously checked in trusted certificate to associate with this envelope. Required.

**Note:** Only displayed if Use Security is set to Yes.

**Security Algorithm**

Strength of the algorithm used to encrypt data and provides a key length your trading partner can support. Required. Valid values are:

- MD5 with RSA – Message digest algorithm that verifies the integrity of data through a 128-bit message digest. Default.
- SHA1 with RSA – Secure hash algorithm that verifies the integrity of data through a 160-bit (20 byte) message digest. Transmission may be a bit slower than MD5; however, the larger message digest size offers a more secure data transference.

**Note:** Only displayed if Use Security is set to Yes.

**Use of Algorithm**

Defines when the algorithm is used. Required. Valid values are:

- 1 - Owner Hashing (default)
- 6 - Owner Signing

**Note:** Only displayed if Use Security is set to Yes.

**Security Service**

Whether the message sender must sign the message with a digital certificate. Required.

**Note:** Only displayed if Use Security is set to Yes.

**Response Type**

Whether you required an acknowledgement for transmitted digital certificates. Required.

**Note:** Only displayed if Use Security is set to Yes.

**Filter Function**

The function of the filter. Default is Hexadecimal filter. Required.

---

## Chapter 10. Creating EDIFACT Maps

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

**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 EDIFACT Standards Release messages loaded into the IBM Sterling Standards Database for EDI through the Sterling B2B Integrator Map Editor.

---

### EDIFACT Components in the Sterling B2B Integrator Map Editor

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

Component	Icon	Description
EDIFACT root element		The <i>EDIFACT root element</i> represents the message that the Sterling B2B Integrator is mapping. At the EDIFACT 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>EDIFACT segment</i> contains a field tag (in Sterling B2B Integrator Map Editor, an EDIFACT segment is a group of related elements or composite data elements that combine to communicate useful data). An EDIFACT segment can occur once or can repeat multiple times.</p> <p><b>Note:</b> If an EDIFACT segment occurs more than once in a map, it is identified by its name &lt;ID&gt;. The second and subsequent occurrences are identified by &lt;ID&gt;: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 EDIFACT components (the smallest piece of information defined by the standard) that define an EDIFACT 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 EDIFACT fields and components contain useful and discrete information.</p> <p><b>Note:</b> If an element occurs more than once in a map it is identified by its name &lt;ID&gt;. The second and subsequent occurrences are identified by &lt;ID&gt;: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 EDIFACT segment. To enable a single element to repeat multiple times within an EDIFACT 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 EDIFACT

### 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 EDIFACT transaction.



---

## Create an EDIFACT 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 EDIFACT 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 **Sterling B2B Integrator** is selected in the **What kind of map are you creating** list.

3. If you are translating from EDIFACT, 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 import code lists from the Sterling Standards Database for EDI, 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.

6. Select the ODBC data source that contains the Sterling Standards Database for EDI (the default is **IBM Sterling B2B Integrator Standards**) and click **Next**.
7. Select the standards agency (**[E] EDIFACT**), the version of the standard, and the transaction set you want to use and click **Next**.
8. Click **Finish** to load the transaction set.
9. Click **Next** to select the Output Format.
10. If you are translating to EDIFACT, in the Output Format window (select the **Create a New Data Format Using this Syntax** option).
11. 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.
12. If you want to import code lists from the Sterling Standards Database for EDI, 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.

13. Select the ODBC data source that contains the Sterling Standards Database for EDI (the default is **IBM Sterling B2B Integrator Standards**) and click **Next**.
14. Select the standards agency ([E] **EDIFACT**), the version of the standard, and the transaction set you want to use and click **Next**.
15. Click **Finish** to load the transaction set. The Sterling B2B Integrator Map Editor displays the new map.
16. 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.

17. 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. Generate an EDIFACT Report

### About this task

The EDI Translation Detail report enables you to access EDI data (for a particular standard like EDIFACT) 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 EDIFACT 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* **EDIFACT**.
4. Filter by any other desired criteria and click **Finish** at the end of the Report Configuration Wizard to generate the report.



---



## Chapter 12. Search for EDIFACT 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 EDIFACT message flow.

To search for EDIFACT 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 EDIFACT messages, in the **Interchange Level Options Standard** box, type **EDIFACT**.
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 AS2 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 EDIFACT messages.



---

## Notices

This information was developed for products and services offered in the U.S.A.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing*

*IBM Corporation*

*North Castle Drive*

*Armonk, NY 10504-1785*

*U.S.A.*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing*

*Legal and Intellectual Property Law*

*IBM Japan Ltd.*

*19-21, Nihonbashi-Hakozakicho, Chuo-ku*

*Tokyo 103-8510, Japan*

**The following paragraph does not apply to the United Kingdom or any other country where such provisions are inconsistent with local law:**

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some states do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be

incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM Web sites are provided for convenience only and do not in any manner serve as an endorsement of those Web sites. The materials at those Web sites are not part of the materials for this IBM product and use of those Web sites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licenses of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Corporation*

*J46A/G4*

*555 Bailey Avenue*

*San Jose, CA 95141-1003*

*U.S.A.*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

Any performance data contained herein was determined in a controlled environment. Therefore, the results obtained in other operating environments may vary significantly. Some measurements may have been made on development-level systems and there is no guarantee that these measurements will be the same on generally available systems. Furthermore, some measurements may have been estimated through extrapolation. Actual results may vary. Users of this document should verify the applicable data for their specific environment.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

All statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.



This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work, must include a copyright notice as follows:

© IBM 2014. Portions of this code are derived from IBM Corp. Sample Programs. © Copyright IBM Corp. 2014.

If you are viewing this information softcopy, the photographs and color illustrations may not appear.

#### **Trademarks**

IBM, the IBM logo, and [ibm.com](http://www.ibm.com)<sup>®</sup> are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at <http://www.ibm.com/legal/copytrade.shtml>.

Adobe, the Adobe logo, PostScript, and the PostScript logo are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States, and/or other countries.

IT Infrastructure Library is a registered trademark of the Central Computer and Telecommunications Agency which is now part of the Office of Government Commerce.

Intel, Intel logo, Intel Inside, Intel Inside logo, Intel Centrino, Intel Centrino logo, Celeron, Intel Xeon, Intel SpeedStep, Itanium, and Pentium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

Microsoft, Windows, Windows NT, and the Windows logo are trademarks of Microsoft Corporation in the United States, other countries, or both.

ITIL is a registered trademark, and a registered community trademark of the Office of Government Commerce, and is registered in the U.S. Patent and Trademark Office.

UNIX is a registered trademark of The Open Group in the United States and other countries.

Java™ and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Cell Broadband Engine is a trademark of Sony Computer Entertainment, Inc. in the United States, other countries, or both and is used under license therefrom.

Linear Tape-Open, LTO, the LTO Logo, Ultrium and the Ultrium Logo are trademarks of HP, IBM Corp. and Quantum in the U.S. and other countries.

Connect Control Center®, Connect:Direct®, Connect:Enterprise®, Gentran®, Gentran®:Basic®, Gentran:Control®, Gentran:Director®, Gentran:Plus®, Gentran:Realtime®, Gentran:Server®, Gentran:Viewpoint®, Sterling Commerce™, Sterling Information Broker®, and Sterling Integrator® are trademarks or registered trademarks of Sterling Commerce®, Inc., an IBM Company.

Other company, product, and service names may be trademarks or service marks of others.





Printed in USA