

Sterling Standards Library



Using RND

Version 8.04, for Sterling B2B Integrator 5.24

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Note

Before using this information and the product it supports, read the information in "Notices" on page 33.

Copyright

This edition applies to the 8.0.4 Version of the IBM Sterling B2B Integrator and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. RND with the IBM Sterling B2B Integrator

Sterling B2B Integrator supports the use of Rede Nacional de Dados (RND), the Brazilian automotive standard (which consists of automobile manufacturers and their development partners, the suppliers, and the manufacturers of trailers, body superstructures, and containers). RND has several features that distinguish it from most other EDI standards:

- It does not use functional groups.
- Each interchange only contains one transaction set.
- It uses a positional, non-delimited format.
- It uses looping but not composite elements.

Sterling B2B Integrator automatically installs the appropriate RND build and break (system) maps, which determine the message-type and then match it with the appropriate envelope. The RND standards are not installed with the other EDI standards; instead, you use the IBM Sterling B2B Integrator Map Editor to create a positional format for the RND side of your map that conforms to the RND standard. See Chapter 4, “RND Mapping,” on page 29.

In addition, support for RND requires you to create inbound and outbound RND envelopes. See Chapter 2, “RND Envelopes,” on page 5. Sterling B2B Integrator provides two predefined business processes to order the flow of Sterling B2B Integrator activities so you can accomplish your business objectives with RND.

This table describes how Sterling B2B Integrator was enhanced to support RND:

Functionality	Enhancements	Action You Need to Take to Implement RND
Services	<ul style="list-style-type: none">• EDI Deenveloping service enhanced to recognize the RND standard.• EDI Enveloping service enhanced to recognize the RND standard.• Generic Deenvelope service enhanced to recognize the RND standard.• Generic Envelope service enhanced to recognize the RND standard.	None.
Envelopes	<ul style="list-style-type: none">• Inbound RND envelope wizard added to implement inbound RND.• Outbound RND envelope wizard added to implement outbound RND. <p>See Chapter 2, “RND Envelopes,” on page 5.</p>	Create the appropriate RND envelopes for each message type you are sending and receiving. See Chapter 2, “RND Envelopes,” on page 5.

Functionality	Enhancements	Action You Need to Take to Implement RND
Predefined business processes	<ul style="list-style-type: none"> • Predefined RND Develope business process added. • Predefined RND Envelope business process added. <p>See Chapter 3, “RND Business Processes,” on page 25.</p>	<p>Create a business process or processes and configure the appropriate service parameters.</p> <p>See Chapter 3, “RND Business Processes,” on page 25.</p>
Sterling B2B Integrator Map Editor	<ul style="list-style-type: none"> • RND build and break maps are automatically installed with Sterling B2B Integrator. • Ten new DDFs—corresponding to the ten RND message types/transaction sets that are supported—are bundled with the Sterling B2B Integrator Map Editor and placed by the Sterling B2B Integrator Map Editor install in a new IBM Map Editor/Samples/DDFs/RND folder. <p>See Chapter 4, “RND Mapping,” on page 29.</p>	<p>Create a map or maps to translate your RND messages.</p> <p>Note: RND maps can be created by loading the data formats from the installed DDFs.</p> <p>See Chapter 4, “RND Mapping,” on page 29.</p>
Tracking and Correlations	<p>Sterling B2B Integrator tracking and correlation functionality automatically tracks the RND messages the same way other standards are tracked, and you can search for RND documents using the EDI Correlation search interface.</p>	None.
Reporting	<p>The EDI Translation Details Report allows you to report on RND translation details.</p>	None.

Prerequisite for using RND

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

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

Use RND with Sterling B2B Integrator

About this task

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

Procedure

1. Create inbound and outbound RND envelopes. See Chapter 2, “RND Envelopes,” on page 5.

2. Create a business process or processes utilizing one of the predefined RND business processes and configure the appropriate service parameters. See Chapter 3, "RND Business Processes," on page 25.
3. Create the appropriate RND maps. See Chapter 4, "RND Mapping," on page 29.

Chapter 2. RND Envelopes

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 EDI protocol used. Creating document envelopes is necessary to use RND with your trading partners.

RND has only one level of envelope, which you must modify appropriately to reflect your information and your trading partner's information. Envelopes specify whether the message is inbound or outbound:

- The **RND Inbound** envelope identifies messages that are received by Sterling B2B Integrator so they can be properly routed. Inbound envelopes also give you the option to translate messages when you choose to check messages for compliance. By choosing to translate messages from within the envelope, you can reduce message processing time because you do not need to specify a separate translation service step in the business process. You need to create a RND Inbound envelope to configure deenveloping information. See “RNDInbound Envelope” on page 6.
- The **RND Outbound** envelope identifies messages so that they can be sent to and received by trading partners. You need to configure a RND Outbound envelope to configure enveloping information. See “RNDOutbound Envelope” on page 15.

When you envelope an outbound RND message, the RND header and trailer are created. For an inbound message, the envelope contains the header information (the trailer information is a summary appended to the RND data).

Create Envelopes

About this task

Inbound envelopes define expected header and trailer information for inbound messages. This information helps Sterling B2B Integrator route and process the messages. Outbound envelopes specify information about messages that enables them to be sent to and received by trading partners, and they gather and provide the appropriate data used to create the header.

To create an envelope:

Procedure

1. From the Admin Console, select **Trading Partner > Document Envelopes > Envelopes**.
2. Under Create, next to New Envelope, click **Go!**
3. On the Envelope Standards page, select **RND** and click **Next**.
4. Select the level of envelope you want to create, inbound or outbound, and click **Next**.
5. On the Base Envelope page, do you want this envelope to inherit properties from a base envelope (if available)?
 - If Yes, select a base envelope and click **Next**.

- If No (you want to create a new envelope), select **Not Applicable** 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. See “RNDInbound Envelope” or “RNDOutbound Envelope” on page 15.
- 8. Click **Finish** to add the envelope.

Use Base Envelopes

About this task

A *base envelope* is a regular envelope that you use as a starting point to create a new envelope. The base envelope maintains a link to the envelope that inherited its properties. If you modify the base envelope, all related envelopes (those that inherited the base envelope properties) are also changed.

When you create an envelope using a base envelope, everything in the new envelope is the same as in the base envelope, except the envelope name, description, and parameters such as unique identification numbers. If you plan to create many envelopes using base envelopes, do not use the base envelopes in production. You should also be sure to note the envelopes that are related to the base envelopes.

To use a base envelope:

Procedure

1. Create the base envelope, using “Create Envelopes” on page 5.
2. Specify the name and description of a new envelope.
3. Identify the base envelope that the new envelope uses.

RNDInbound Envelope

You only need to create an Inbound RND envelope if you are receiving inbound RND messages. However, if you are receiving inbound RND messages, you need to create a separate RNDInbound envelope for *each* RND message type you will be receiving. The following table describes RNDInbound envelope properties:</p>
</div>
<div>
<p>Note: An (*) asterisk indicates that a wildcard value can be used with that parameter (for mandatory fields, the wildcard value is an (*) asterisk and for optional fields, the wildcard value is leaving the field blank).</p>
</div>
<div>
<p>Field or Check Box
Description</p>
</div>
<div>
<p>*Process ID</p>
</div>
<div>
<p>Process identifier. Required.</p>
</div>
<div>
<p>*Transaction Version</p>
</div>
<div>
<p>Version number of the transaction. Required.</p>
</div>
<div>
<p>*Transmitter IRF Code</p>
</div>
<div>
<p>Coded identifier of the supplier number or data sender. Required.</p>
</div>
<div>
<p>6 Sterling Standards Library: Using RND</p>
</div>

Note: This parameter enables you to type in a new ID or pick an ID that has already been used. When you start typing an ID, Sterling B2B Integrator returns all matching IDs existing in the system and provide a combo-box from which you can select an ID by double-clicking it. There must be Transmitter IRF Codes in the system for autocomplete to find matches and display a selection list.

***Receiver IRF Code**

Coded identifier of the customer number or data source number. Required.

Note: This parameter enables you to type in a new ID or pick an ID that has already been used. When you start typing an ID, Sterling B2B Integrator returns all matching IDs existing in the system and provide a combo-box from which you can select an ID by double-clicking it. There must be Receiver IRF Codes in the system for autocomplete to find matches and display a selection list.

Internal Transmitter Code

Internal code used to reference the transmitter. Optional.

Internal Receiver Code

Internal code used to reference the receiver. Optional.

Transmitter Name

Name of the sender. Optional.

Receiver Name

Name of the receiver. Optional.

Perform Transmission Control Number Sequence Checking

Compare the sequence of control numbers in the data with the Transmission Control Number parameter for this envelope. Required. Valid values:

- Yes
- No (default)

Use global control number for Transmission Control Numbers

Whether to use a global control number for the transmission control number. Required. Valid values:

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

Perform Transmission Control Number Duplicate Checking

Determine control number duplications. Required. Valid values:

- Yes
- No (default)

Maximum age of Control Number History Records in days

Maximum days that Sterling B2B Integrator should retain a history of control numbers to use for duplication determinations. Valid value is nine standard characters. Optional.

Global Transmission Control Number

Select a global control number with this envelope. Optional.

Displayed only if **Use global control number for Transmission Control Numbers** is set to Yes.

Primary Name Format

Check boxes to instruct what information to include when generating a name for a primary global number and finding the correct number to assign based on that name. Optional.

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated global control number (**Use global control number for Transmission Control Numbers** is set to Yes (and generate name from data)), 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 if a generated control number cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated global control number (**Use global control number for Transmission Control Numbers** is set to Yes (and generate name from data)), 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 if a generated control number cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated global control number (**Use global control number for Transmission Control Numbers** is set to Yes (and generate name from data)), 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.

Local Transmission Control Number

Select a local control number with this envelope. Required.

Displayed only if **Use global control number for Transmission Control Numbers** is set to No.

Compliance Check Document

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

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 messages from within the envelope, you can reduce message 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). Required.

Displayed if **Compliance Check Document** is set to Yes.

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)

Displayed if **Compliance Check Document** is set to Yes.

Map Name

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

Primary Name Format

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

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated map name (**Map Name Mode** is set to Generate from data), 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.

Use first backup name format

Whether to use the first backup name format if a generated map name cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First Backup Name Format

The first backup name format to use when generating a name for the map. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated map name (**Map Name Mode** is set to Generate from data), 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.

Use second backup name format

Whether to use the second backup name format if a generated map name cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second Backup Name Format

The second backup name format to use when generating a name for the map. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated map name (**Map Name Mode** is set to Generate from data), 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.

Generate an error if no matching map is found

Specifies whether to generate an error if no match is found for the specified map. Required. Valid values are Yes (default) and No.

On a translation error, determine the Business Process by

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

- Specify Business Process Name (default)
- Generate Business Process Name (this is useful if you want to share across envelopes)

Primary Name Format

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

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**On a translation error, determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use first backup name format

Whether to use the first backup name format if a generated error business process name cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First Backup Name Format

The first backup name format to use when generating a name for the business process after an error. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**On a translation error, determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use second backup name format

Whether to use the second backup name format if a generated error business process name cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second Backup Name Format

The second backup name format to use when generating a name for the business process after an error. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**On a translation error, determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

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.

Note: Only displayed if **On a translation error, determine the Business Process by** is set to Generate Business Process Name.

Business Process List

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

Displayed only if **On a translation error, determine the Business Process by** is set to Specify Business Process Name.

Determine the Business Process By

How to determine the business process name to use if there were no errors in the compliance check. Required. Valid values are:

- Specify Business Process Name (default)
- Generate Business Process Name (this is useful if you want to share across envelopes)

Primary Name Format

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

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**Determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use first backup name format

Whether to use the first backup name format if a generated business process name cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First Backup Name Format

The first backup name format to use when generating a name for the business process. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**Determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use second backup name format

Whether to use the second backup name format if a generated business process name cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second Backup Name Format

The second backup name format to use when generating a name for the business process. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**Determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

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.

Note: Only displayed if **Determine the Business Process by** is set to Generate Business Process Name.

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 Specify 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. Displayed only if **Extraction Options** set to Extract to a file system directory. Optional

Data Extraction Filename

Filename for data extraction. Displayed only if **Extraction Options** set to Extract to a file system directory. Optional.

Data Extraction Mailbox

Mailbox for data extraction. Displayed only if **Extraction Options** set to Extract to a mailbox. Optional.

Data Extraction Mailbox Message Name

Mailbox message name for data extraction. Displayed only if **Extraction Options** set to Extract to a mailbox. Optional.

RNDOutbound Envelope

You only need to create an RNDOutbound envelope if you are sending outbound RND messages. However, if you are sending outbound RND messages, you need to create a separate RNDOutbound envelope for *each* RND message type you will be sending. The following table describes RNDOutbound envelope properties:

Note: An (*) asterisk indicates that a wildcard value can be used with that parameter.

Field or Check Box
Description

***Process ID**
Process identifier. Required.

***Transaction Version**

Version number of the transaction. Required.

***Transmitter IRF Code**

Coded identifier of the supplier number or data sender. Required.

Note: This parameter enables you to type in a new ID or pick an ID that has already been used. When you start typing an ID, Sterling B2B Integrator returns all matching IDs existing in the system and provides a combo-box from which you can select an ID by double-clicking it. There must be Transmitter IRF Codes in the system for autocomplete to find matches and display a selection list.

***Receiver IRF Code**

Coded identifier of the customer number or data source number. Required.

Note: This parameter enables you to type in a new ID or pick an ID that has already been used. When you start typing an ID, Sterling B2B Integrator returns all matching IDs existing in the system and provides a combo-box from which you can select an ID by double-clicking it. There must be Receiver IRF Codes in the system for autocomplete to find matches and display a selection list.

Acceptor Lookup Alias

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

Internal Transmitter Code

Internal code used to reference the transmitter. Optional.

Internal Receiver Code

Internal code used to reference the receiver. Optional.

Transmitter Name

Name of the sender. Optional.

Receiver Name

Name of the receiver. 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 for Transmission Control Numbers

Whether to use a global control number for the transmission control number. Required. Valid values are:

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

Global Transmission Control Number

Select a global control number with this envelope. Optional.

Displayed only if **Use global control number for Transmission Control Numbers** is set to Yes.

Primary Name Format

Check boxes to instruct what information to include when generating a name for a primary global number and finding the correct number to assign based on that name. Optional.

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated global control number (**Use global control number** is set to Yes (and generate name from data)), 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 if a generated control number cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID

- Transaction Version

Note: If you are using a generated global control number (**Use global control number** is set to Yes (and generate name from data)), 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 if a generated control number cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated global control number (**Use global control number** is set to Yes (and generate name from data)), 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.

Local Transmission Control Number

Select a local control number with this envelope. Required.

Displayed only if **Use global control number for Transmission Control Numbers** is set to No.

Translate documents prior to enveloping

Whether to translate the documents prior to enveloping them. Valid values are Yes and No (default). Required.

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)

Displayed if **Translate documents prior to enveloping** is set to Yes.

Primary Name Format

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

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated map name (**Map Name Mode** is set to Generate from data), 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.

Use first backup name format

Whether to use the first backup name format if a generated map name cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First Backup Name Format

The first backup name format to use when generating a name for the map. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated map name (**Map Name Mode** is set to Generate from data), 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.

Use second backup name format

Whether to use the second backup name format if a generated map name cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second Backup Name Format

The second backup name format to use when generating a name for the map. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated map name (**Map Name Mode** is set to Generate from data), 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.

Generate an error if no matching map is found

Specifies whether to generate an error if no match is found for the specified map. Required. Valid values are Yes (default) and No.

Map Name

Which map to use to perform a compliance check (**Map Name Mode** set to Specify). The map must already be checked in to Sterling B2B Integrator. Optional.

Determine the Business Process by

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

- Specify Business Process Name (default)
- Generate Business Process Name (this is useful if you want to share across envelopes)

Primary Name Format

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

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**On a translation error, determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use first backup name format

Whether to use the first backup name format if a generated error business process name cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First Backup Name Format

The first backup name format to use when generating a name for the business process after an error. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**On a translation error, determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use second backup name format

Whether to use the second backup name format if a generated error business process name cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second Backup Name Format

The second backup name format to use when generating a name for the business process after an error. 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:

- Transmitter IRF Code

- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**On a translation error, determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

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.

Note: Only displayed if **On a translation error, determine the Business Process by** is set to Generate Business Process Name.

Business Process List

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

Displayed only if **On a translation error, determine the Business Process by** is set to Specify Business Process Name.

Determine the Business Process By

How to determine the business process name to use if there were no errors in the compliance check. Required. Valid values are:

- Specify Business Process Name (default)
- Generate Business Process Name (this is useful if you want to share across envelopes)

Primary Name Format

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

Select from:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**Determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use first backup name format

Whether to use the first backup name format if a generated business process name cannot be found using the Primary Name Format. Default is selected (use a first backup name format).

First Backup Name Format

The first backup name format to use when generating a name for the business process. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**Determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

Use second backup name format

Whether to use the second backup name format if a generated business process name cannot be found using the Primary Name Format. Default is selected (use a second backup name format).

Second Backup Name Format

The second backup name format to use when generating a name for the business process. 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:

- Transmitter IRF Code
- Receiver IRF Code
- Process ID
- Transaction Version

Note: If you are using a generated business process (**Determine the Business Process by** is set to Generate Business Process Name), Sterling B2B Integrator tries to generate and match the following business process names:

- 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 map that matches the names generated in steps 1-3, an error is generated.

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.

Note: Only displayed if **Determine the Business Process by** is set to Generate Business Process Name.

Business Process List

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

Displayed only if **Determine Business Process by** is set to Specify 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. Displayed only if **Extraction Options** set to Extract to a file system directory. Optional

Data Extraction Filename

Filename for data extraction. Displayed only if **Extraction Options** set to Extract to a file system directory. Optional.

Data Extraction Mailbox

Mailbox for data extraction. Displayed only if **Extraction Options** set to Extract to a mailbox. Optional.

Data Extraction Mailbox Message Name

Mailbox message name for data extraction. Displayed only if **Extraction Options** set to Extract to a mailbox. Optional.

Chapter 3. RND Business Processes

To use RND with Sterling B2B Integrator, you need to create a business process or processes that uses one of the predefined business processes described in this section, and configure the following parameters, which should match what you configured in the RND envelope:

- Process ID (for inbound only)
- Sender ID (for inbound and outbound)
- Receiver ID (for inbound and outbound)
- Acceptor Lookup Alias (for outbound only)

To help you accomplish your business goals, Sterling B2B Integrator provides two predefined business processes that are used by Sterling B2B Integrator to implement RND processing: RNDEnvelope and RNDDevelope. These predefined business processes are initiated by other processes/services during RND processing and do not require you to modify them.

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

Business Process	Business Goals	For more information, see
RNDDevelope	Extracts RND message types from an EDI message and starts the appropriate business process, according to the content of the envelopes.	“RNDDevelope Business Process”
RNDEnvelope	Applies a RND envelope to one or more RND message types and then uses the envelope data to start the appropriate business process.	“RNDEnvelope Business Process” on page 27

RNDDevelope Business Process

The RNDDevelope business process is used to develope RND data. A typical scenario is one in which RND data must be received from a trading partner. The data must be develope to extract identifying batch and interchange data, and the RNDDevelope business process helps to provide the developing services.

The RNDDevelope business process is initiated as part of the following inbound process flow:

1. You create a business process that calls the EDI Develope service.
2. The EDI Develope service parses the whole message and checks it for compliance so it can be further processed by Sterling B2B Integrator.
3. Passes the RND messages to the RNDDevelope business process. The Generic Develope service runs as a subprocess.
4. The RNDDevelope business process looks up the envelope, based on the data found in the header.

Note: For this envelope to be used, the Transmitter IRF Code, Receiver IRF Code, and Process ID in your envelope definition must match the parameters in the incoming data.

5. The envelope specifies what to do with the deenveloped messages.
6. Starts the Invoke Business Process service or a subprocess service to initiate the appropriate business process to handle each deenveloped message.

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

The following BPML code makes up the RNDDeenvelope business process:

```
<process name="RNDDeenvelope">

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

  <sequence>
    <operation>
      <participant name="DeenvelopeGeneric" />
      <output message="Xout" >
        <assign to="map_name">BrkIrnd</assign>
        <assign to="RunInValidationMode">>false</assign>
        <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 RNDDeenvelope Business Process

Before you use the RNDDeenvelope business process, you must create a RND inbound envelope for each RND message type that you are receiving. See “RNDInbound Envelope” on page 6.

RNDEnvelope Business Process

The RNDEnvelope business process is initiated when it is called by another business process. The RNDEnvelope business process envelopes the RND messages contained in the business process context with outbound RND envelopes that you have preconfigured. You must have created one outbound RND envelope for each RND message type that you are sending.

A typical scenario is one in which RND data must be sent to a trading partner. To prepare for this, the data must be enveloped to provide identifying batch and interchange data. The RNDEnvelope business process helps to provide these enveloping services.

The RNDEnvelope business process is initiated as part of the following outbound process flow:

1. You create a business process that calls the EDI Encoder service.
2. The EDI Encoder service calls the EDI Enveloping service, either in immediate or deferred mode, depending on what you specify.
3. The EDI Enveloping service starts the RNDEnvelope business process (which runs the Generic Envelope service as a subprocess to extract the name of the business process).
4. The RNDEnvelope business process searches the envelope definition to retrieve information to envelope each message.

Note: The Sender ID, Receiver ID, and Lookup Alias in your Outbound Envelope definition must match the parameters that you define for this outbound business process.

The following BPML code makes up the RND Envelope business process:

```
<process name="RNDEnvelope">
  <rule name="contract">
    <condition>CONTRACT_FOUND = "YES"</condition>
  </rule>
  <sequence>
    <operation>
      <participant name="EnvelopeGeneric" />
      <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>
```

```
        </input>
      </operation>
    </sequence>
  </choice>

</sequence>
</process>
```

Before Using the RNDEnvelope Business Process

Before you use the RNDEnvelope business process, you must create a RND outbound envelope for each RND message type that you are sending. See “RNDOutbound Envelope” on page 15.

Chapter 4. RND Mapping

This documentation assumes that you are familiar with mapping concepts and with Sterling B2B Integrator Map Editor.

The RND standards are not installed with the other EDI standards; instead, ten new *data definition format* (DDF) files—corresponding to the ten RND message types/transaction sets that Sterling B2B Integrator supports—are bundled with the Sterling B2B Integrator Map Editor and placed by the Sterling B2B Integrator Map Editor install in the **Map Editor - Standards Folder/Map Editor/Samples/DDFs/RND** folder.

The data definition format (DDF) is an IBM format that contains an XML-formatted description of the input or output side of a source map and has the file extension `.ddf`. DDF files include the hierarchical and looping structure of the data, the map objects (groups, records, fields) and their attributes (for example, names, descriptions, data types). A DDF file can be loaded (imported) or created (for export) from the Sterling B2B Integrator Map Editor.

Note: DDF files do not contain standard or extended rules, links, or any other map information unrelated to the data format. The one exception is the Use Code code lists. If the map references a Use Code standard rule and instructs IBM Sterling Gentran:Server for Windows to raise a compliance error if the code is not found in the Use Code code list, Sterling Gentran:Server for Windows saves the standard rule and the associated code list.

Sterling B2B Integrator automatically installs the appropriate RND build and break (system) maps, which determine the message type and then match it with the appropriate envelope. The RND standards are not installed with the other EDI standards; instead, you use the Sterling B2B Integrator Map Editor to create a positional format for the RND side of your map that conforms to the RND standard.

Sterling B2B Integrator supports the following RND message types:

RND Message Type
DDF File Name

RND Message Type 1
RND001

RND Message Type 2
RND002

RND Message Type 3
RND003

RND Message Type 4
RND004

RND Message Type 5
RND005

RND Message Type 6
RND006

RND Message Type 7
RND007

RND Message Type 8
RND008

RND Message Type 10
RND010

RND Message Type 12
RND012

Creating an RND Map

You can create RND maps by loading the appropriate DDF file and creating a map to translate your RND data. The DDF is a IBM format that contains an XML-formatted description of the input or output side of a source map and has the file extension .ddf. A DDF file includes the hierarchical and looping structure of the data, the map objects (groups, records, fields) and their attributes (for example, names, descriptions, data types). A DDF file can be loaded (imported) or created (for export) from the Sterling B2B Integrator Map Editor.

Note: DDF files do not contain standard or extended rules, links, or any other map information unrelated to the data format. The one exception is the Use Code code lists. If the map references a Use Code standard rule and instructs Sterling Gentran:Server for Windows to raise a compliance error if the code is not found in the Use Code code list, Sterling Gentran:Server for Windows saves the standard rule and the associated code list.

Note: Once you create a map, you do not need to recreate it because the Sterling B2B Integrator Map Editor uses DDF files instead of IFD files, even if you created your map from IFD files.

Open a DDF File to Create an RND Map

About this task

Sterling B2B Integrator enables you to open, or import, a DDF file in two ways—when you create a new map and when you open a DDF file into one side of an existing map. Either way, using a DDF file provides you with a quick way to create either side of a map.

When you create a new map, the New Map wizard enables you to select a DDF file to use as the basis for the input or output side of the map.

When you open a DDF file, Sterling B2B Integrator assigns acceptable defaults if attributes are not included. For example, if a value is not specified for Minimum Length, a value of zero is assigned.

To open a DDF file into an existing map:

Note: Opening a DDF file into an existing map replaces the selected side of the map. After you open a DDF file into a map, you cannot undo the operation.

Procedure

1. In the Sterling B2B Integrator Map Editor, right-click the **data format** icon on the side of the map where you want to open the DDF file and select **Open File Definition** from the shortcut menu.

If you are creating a map for outbound RND messages, you typically open the DDF file on the Output side of the map; for inbound RND messages, you typically open the DDF file on the Input side of the map.

If you already used Sterling B2B Integrator to create that side of the map, you are prompted with a message that warns you that the existing file format will be replaced. Click **Yes** to continue.

2. Browse to locate the DDF file for the RND message type you are using. Be sure you select the DDF corresponding to the appropriate direction for the message type (that is, inbound or outbound).

The DDF files are installed in the **Map Editor - Standards Folder/Map Editor/Samples/DDFs/RND** folder.

3. Click **Open** to open the selected DDF file into the map.
4. In the Sterling B2B Integrator Map Editor, select **File > Save** to save the map. Do not use spaces or apostrophes in the map name. The map is automatically saved as a .xml file; to save a map as a .map file, select **File > Save As** and then select **Source Maps (*.map)** from the **Save as type** list.
5. Create the other side of the map, create links, standard rules, and extended rules to map data between the two sides of the map, and complete and compile the map.

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