

*IBM CrossWorlds*  
WebSphere® Business Integration for  
Retail Distribution



# Process\_Reviewed\_Item Collaboration

*Version 4.1.1*

**Note!**

Before using this information and the product it supports, be sure to read the general information under “Notices and Trademarks” on page 13.

**First Edition (October 2002)**

This edition applies to Version 4, Release 1, Modification 1, of *IBM® CrossWorlds®* (5724-C12) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## Process\_Reviewed\_Item collaboration

The Process\_Reviewed\_Item collaboration is used to synchronize a Retail\_Item business object to back-end applications based on the status of the object. The collaboration also sends the Retail\_Item business object to a port to notify the source application of the status of the processed business object. The Process\_Reviewed\_Item collaboration can also be configured to do the following:

- Save or delete the Retail\_Item business object from a persistent store
- Log the processing business object.
- Initiate the notification of the status of the business object processing (Approved, Rejected, or Error).

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## Required documents

The Process\_Reviewed\_Item collaboration has features, ports, and configuration properties that are unique to it. To create and configure a Process\_Reviewed\_Item collaboration object, use the following documents:

- This document for the Process\_Reviewed\_Item collaboration-specific information.
- Collaboration Development Guide for general information about creating and configuring collaboration objects.

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## Collaboration setup

This section includes the following information:

- “Port information”
- “Setting up the collaboration” on page 3

### Port information

The following figure illustrates the Process\_Reviewed\_Item collaboration’s ports, as they are displayed in IBM® CrossWorlds® System Manager (CSM):

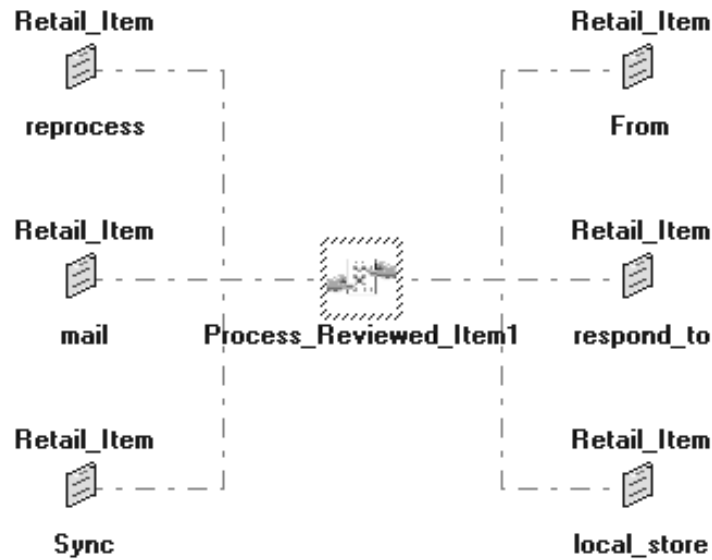


Figure 1. Process\_Reviewed\_Item collaboration's ports

Table 1. Port name: From

Business object	Bound to	Function	Verbs used
Retail_Item	Retail_Item from an object source collaboration, such as ItemCollector.	Receives the triggering business object. The business object contains a status of Approved, Rejected, or Error. At the end of the collaboration processing, this port returns the business object to the triggering collaboration or connector.	Create

Table 2. Port name: Sync

Business object	Bound to	Function	Verbs used
Retail_Item	A collaboration or connector used to synchronize a Retail_Item with a status of Approved to a back-end application.	Sends the business object with a status of Approved for synchronization to the back-end application.	Create

Table 3. Port name: reprocess

Business object	Bound to	Function	Verbs used
Retail_Item	A collaboration or connector (such as the ItemValidation collaboration) that evaluates the Retail_Item to ensure it contains all required attribute data.	Sends the business object, which has been modified to include previously missing and required attribute data, back through the item validation process.	Create

Table 4. Port name: mail

Business object	Bound to	Function	Verbs used
Retail_Item	A collaboration or connector that provides notification processing for items with Approved or Rejected status, or for items in error. This notification step is optional.	Sends the business object containing a message indicating that the object has a status of Approved or Rejected, or that an error was detected, to a notification process.	Create

Table 5. Port name: local\_store

Business object	Bound to	Function	Verbs used
Retail_Item	A persistent storage mechanism, such as an implementation of the IBM CrossWorlds Data Storage collaboration.	Sends the business object to be saved or deleted from a local item store.	Create, Delete

Table 6. Port name: respond\_to

Business object	Bound to	Function	Verbs used
Retail_Item	A collaboration or connector that notifies the source application of the status of the Retail_Item processing.	Sends the business object, containing an attribute indicating whether the item status is Approved, Rejected, or Error, for creation of a response to the source application.	Create

## Setting up the collaboration

To set up Process\_Reviewed\_Item as a stand-alone collaboration object, complete the following steps:

1. Create the Process\_Reviewed\_Item collaboration object.
2. Bind the ports as described in “Port information” on page 1.
3. Set the “Configuration properties” on page 7 for Process\_Reviewed\_Item.

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## Synchronization process

This section illustrates the overall business process logic for the Process\_Reviewed\_Item collaboration.

### Overall process logic

The following flow shows the process logic for this collaboration's Create verb:

1. The Process\_Reviewed\_Item collaboration is triggered by the receipt of a Retail\_Item business object in its From port. The Retail\_Item must contain a status in the attribute specified in the ITEM\_STATUS\_ATTRIBUTE configuration property, indicating the state of the processing of the item, such as Pending, Approved, Rejected, or Error. By default, this attribute is `internals.item_status`. See "ITEM\_STATUS\_ATTRIBUTE" on page 9 for more information on this property.
2. If the value of the DELETE\_FROM\_LOCAL\_STORE configuration property is set to true, the Process\_Reviewed\_Item collaboration enables deletion of the Retail\_Item from the local item store by sending the business object and the Delete verb to the local\_store port. See the section "Persisting items in and deleting items from the local item store" on page 5 for more information on this process, and "DELETE\_FROM\_LOCAL\_STORE" on page 8 for more information on the DELETE\_FROM\_LOCAL\_STORE property.
3. The Process\_Reviewed\_Item collaboration processes a Retail\_Item business object based on the value of the attribute specified in the ITEM\_STATUS\_ATTRIBUTE property, as follows:
  - If the status is Approved, the Retail\_Item is sent to the Sync port to be synchronized in the back-end application. The item is also sent to the respond\_to port to notify the source application of the Approved status of the item processing.
  - If the status is Rejected or Error, the Retail\_Item is sent to the respond\_to port to notify the source application of the Rejected or Error status of the item processing.
  - If the status is Re-process or Pending, the Retail\_Item is sent to the reprocess port and the Process\_Reviewed\_Item collaboration waits for a response from the validating collaboration. An item returned from the validating collaboration on the reprocess port is then processed, as follows:
    - If the status of the returned item is Pending, it indicates that the item was accepted by the validating collaboration and sent on to the next appropriate step in the validation process. At this point, the Process\_Reviewed\_Item collaboration processing ends. When the process triggered by the validation collaboration completes, the Retail\_Item will again be sent to the Process\_Reviewed\_Item From port.
    - If the status of the returned item is Rejected or Error, the Retail\_Item is sent to the respond\_to port to notify the source application of the Rejected or Error status of the item processing.
4. If the value of the RETAIN\_ITEM\_IN\_LOCAL\_STORE configuration property is set to true, the Process\_Reviewed\_Item collaboration rewrites the Retail\_Item to the local item store by sending the business object and the Create verb to the local\_store port. Note that the default value of this configuration property is false. See the section "Persisting items in and deleting items from the local item store" on page 5 for more information on this process.

If error conditions are encountered during any stage of processing, the Process\_Reviewed\_Item collaboration sets the Retail\_Item business object's



attribute value named in the collaboration configuration property `ITEM_STATUS_ATTRIBUTE` to Error, logs the error, and returns the object to the calling collaboration through its From port.

The `Process_Reviewed_Item` collaboration can log the `Retail_Item` business object in the configured IBM CrossWorlds InterChange Server (ICS) log destination based on the value of the attributes named in the following collaboration configuration properties: `LOG_APPROVED_ITEM`, `LOG_REJECTED_ITEM`, and `LOG_ERROR_ITEM`. See “`LOG_APPROVED_ITEM`” on page 10, “`LOG_REJECTED_ITEM`” on page 10, and “`LOG_ERROR_ITEM`” on page 10 for more information on these properties.

The collaboration can also initiate notification of item status or if any error conditions are detected during processing, by sending the item to the mail port. See “Notifying of Approved or Rejected item status or of processing error conditions” for more information.

### **Persisting items in and deleting items from the local item store**

The `Process_Reviewed_Item` collaboration can be configured to enable saving an item in the local item store after its processing is complete. The item is then available to be used later for validation or back-up. To enable persisting the item in the local item store, set the `Process_Reviewed_Item` configuration property `RETAIN_IN_LOCAL_STORE` to true. The collaboration passes the item with a Create verb to the `local_store` port to be passed to an implementation of the IBM Collaboration for Data Storage, which actually stores the item. The `Process_Reviewed_Item` collaboration enables saving the item to the item store after the item has been sent to the `Sync` port and to the `respond_to` port.

The `Process_Reviewed_Item` collaboration can enable deletion of the `Retail_Item` from the local item store. To enable deletion, set the `Process_Reviewed_Item` configuration property `DELETE_FROM_LOCAL_STORE` to true. The collaboration passes the item with a Delete verb to the `local_store` port to be passed to an implementation of the IBM Collaboration for Data Storage, which actually deletes the item.

**Note:** If the item has not been stored by another collaboration and, therefore, does not have to be deleted, set the property `DELETE_FROM_LOCAL_STORE` to false.

### **Notifying of Approved or Rejected item status or of processing error conditions**

The `Process_Reviewed_Item` collaboration can be configured to initiate notification of Approved or Rejected item status, or if errors are detected during collaboration processing.

**Alerting of Approved item status:** The following collaboration properties enable notification if an item contains a status of Approved:

- `SEND_MAIL_ON_APPROVAL` (see “`SEND_MAIL_ON_APPROVAL`” on page 11 for more information)
- `APPROVED_EMAIL_ROLE` (see “`APPROVED_EMAIL_ROLE`” on page 8 for more information)
- `APPROVED_EMAIL_MSG` (see “`APPROVED_EMAIL_MSG`” on page 7 for more information)
- `APPROVED_EMAIL_SUBJECT` (see “`APPROVED_EMAIL_SUBJECT`” on page 8 for more information)

The SEND\_MAIL\_ON\_APPROVAL and APPROVED\_EMAIL\_ROLE properties must be configured by the user. If the Retail\_Item has a status of Approved and the SEND\_MAIL\_ON\_APPROVAL and APPROVED\_EMAIL\_ROLE collaboration properties exist, the collaboration stores the values of the APPROVED\_EMAIL\_ROLE, APPROVED\_EMAIL\_MSG, and APPROVED\_EMAIL\_SUBJECT properties in attributes of the Retail\_Item business object. The Retail\_Item attributes into which these values are stored are identified by the EMAIL\_ROLE\_ATTRIBUTE, EMAIL\_MSG\_ATTRIBUTE, and EMAIL\_SUBJECT\_ATTRIBUTE configuration properties, respectively. (See “EMAIL\_ROLE\_ATTRIBUTE” on page 8, “EMAIL\_MSG\_ATTRIBUTE” on page 8, and “EMAIL\_SUBJECT\_ATTRIBUTE” on page 8 for more information on these properties.) The collaboration then sends the object to its mail port. If the APPROVED\_EMAIL\_ROLE property does not exist, a value of unknown is set in the EMAIL\_ROLE\_ATTRIBUTE of the Retail\_Item.

**Alerting of Rejected item status:** The following collaboration properties enable notification if an item contains a status of Rejected:

- SEND\_MAIL\_ON\_REJECTION (see “SEND\_MAIL\_ON\_REJECTION” on page 12 for more information)
- REJECT\_EMAIL\_ROLE (see “REJECT\_EMAIL\_ROLE” on page 11 for more information)
- REJECT\_EMAIL\_MSG (see “REJECT\_EMAIL\_MSG” on page 10 for more information)
- REJECT\_EMAIL\_SUBJECT (see “REJECT\_EMAIL\_SUBJECT” on page 11 for more information)

The SEND\_MAIL\_ON\_REJECTION and REJECT\_EMAIL\_ROLE properties must be configured by the user. If the Retail\_Item has a status of Rejected and the SEND\_MAIL\_ON\_REJECTION and REJECT\_EMAIL\_ROLE collaboration properties exist, the collaboration stores the values of the REJECT\_EMAIL\_ROLE, REJECT\_EMAIL\_MSG, and REJECT\_EMAIL\_SUBJECT in attributes of the Retail\_Item business object. The Retail\_Item attributes into which these values are stored are identified by the EMAIL\_ROLE\_ATTRIBUTE, EMAIL\_MSG\_ATTRIBUTE, and EMAIL\_SUBJECT\_ATTRIBUTE configuration properties, respectively. The collaboration then sends the object to its mail port. If the REJECT\_EMAIL\_ROLE property does not exist, a value of unknown is set in the EMAIL\_ROLE\_ATTRIBUTE of the Retail\_Item.

**Alerting of processing errors:** The following collaboration properties enable notification if errors are detected during collaboration processing:

- SEND\_MAIL\_ON\_ERROR (see “SEND\_MAIL\_ON\_ERROR” on page 11 for more information)
- ERROR\_EMAIL\_ROLE (see “ERROR\_EMAIL\_ROLE” on page 9 for more information)
- ERROR\_EMAIL\_MSG (see “ERROR\_EMAIL\_MSG” on page 9 for more information)
- ERROR\_EMAIL\_SUBJECT (see “ERROR\_EMAIL\_SUBJECT” on page 9 for more information)

The SEND\_MAIL\_ON\_ERROR and ERROR\_EMAIL\_ROLE properties must be configured by the user. If an error is detected and the SEND\_MAIL\_ON\_ERROR and ERROR\_EMAIL\_ROLE collaboration properties exist, the collaboration stores the values of the ERROR\_EMAIL\_ROLE, ERROR\_EMAIL\_MSG, and ERROR\_EMAIL\_SUBJECT in attributes of the Retail\_Item business object. The Retail\_Item attributes into which these values are stored are identified by the

EMAIL\_ROLE\_ATTRIBUTE, EMAIL\_MSG\_ATTRIBUTE, and EMAIL\_SUBJECT\_ATTRIBUTE configuration properties, respectively. The collaboration then sends the object to its mail port. If the ERROR\_EMAIL\_ROLE property does not exist, a value of unknown is set in the EMAIL\_ROLE\_ATTRIBUTE of the Retail\_Item.

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## Configuration properties

This collaboration has the following configuration-specific properties:

- "APPROVED\_EMAIL\_MSG"
- "APPROVED\_EMAIL\_ROLE" on page 8
- "APPROVED\_EMAIL\_SUBJECT" on page 8
- "DELETE\_FROM\_LOCAL\_STORE" on page 8
- "EMAIL\_MSG\_ATTRIBUTE" on page 8
- "EMAIL\_ROLE\_ATTRIBUTE" on page 8
- "EMAIL\_SUBJECT\_ATTRIBUTE" on page 8
- "ERROR\_EMAIL\_MSG" on page 9
- "ERROR\_EMAIL\_ROLE" on page 9
- "ERROR\_EMAIL\_SUBJECT" on page 9
- "ITEM\_IDENTIFICATION\_ATTRIBUTE" on page 9
- "ITEM\_STATUS\_ATTRIBUTE" on page 9
- "LOG\_APPROVED\_ITEM" on page 10
- "LOG\_ERROR\_ITEM" on page 10
- "LOG\_REJECTED\_ITEM" on page 10
- "QUALIFICATION\_FAILED\_EMAIL\_MSG" on page 10
- "REJECT\_EMAIL\_MSG" on page 10
- "REJECT\_EMAIL\_ROLE" on page 11
- "REJECT\_EMAIL\_SUBJECT" on page 11
- "RETAIN\_ITEM\_IN\_LOCAL\_STORE" on page 11
- "SEND\_MAIL\_ON\_APPROVAL" on page 11
- "SEND\_MAIL\_ON\_ERROR" on page 11
- "SEND\_MAIL\_ON\_REJECTION" on page 12

## Collaboration-specific properties

### APPROVED\_EMAIL\_MSG

This property specifies the value that is placed in the EMAIL\_MSG\_ATTRIBUTE of the Retail\_Item business object when an item has a status of Approved. This property can contain the actual message text.

*Table 7. APPROVED\_EMAIL\_MSG configuration property*

Possible values	Usage
The message text for notifying that an item has a status of Approved.	This property holds information that is passed to the mail port. The use of this information is dependent on that which is connected to that port.

## APPROVED\_EMAIL\_ROLE

This property specifies the value that is placed in the EMAIL\_ROLE\_ATTRIBUTE of the Retail\_Item business object when an item has a status of Approved. This property can contain the actual email address to which to send the approved email message. There is no default value for this property.

## APPROVED\_EMAIL\_SUBJECT

This property specifies the value that is placed in the EMAIL\_SUBJECT\_ATTRIBUTE of the Retail\_Item business object when an item has a status of Approved. This property can contain the actual subject text.

Table 8. APPROVED\_EMAIL\_SUBJECT configuration property

Possible values	Usage
item approved	The default item approved subject text.

## DELETE\_FROM\_LOCAL\_STORE

This property specifies whether the collaboration deletes the Retail\_Item business object from the local item store at the start of collaboration processing.

Table 9. DELETE\_FROM\_LOCAL\_STORE configuration property

Possible values	Usage
True (default)	The collaboration deletes the Retail_Item by sending it, along with the Delete verb, to its local_store port.
False	The collaboration does not delete the Retail_Item from the local item store.

## EMAIL\_MSG\_ATTRIBUTE

This property specifies the attribute of the Retail\_Item business object into which the text of a notification message is stored prior to the Retail\_Item business object's being sent to the collaboration's mail port.

Table 10. EMAIL\_MSG\_ATTRIBUTE configuration property

Possible values	Usage
internals.message_text	The default Retail_Item attribute name.

## EMAIL\_ROLE\_ATTRIBUTE

This property specifies the attribute of the Retail\_Item business object into which the email address of a message to be emailed is stored, prior to the Retail\_Item business object's being sent to the collaboration's mail port.

Table 11. EMAIL\_ROLE\_ATTRIBUTE configuration property

Possible values	Usage
internals.message_recipient_role	The default Retail_Item attribute name.

## EMAIL\_SUBJECT\_ATTRIBUTE

This property specifies the attribute of the Retail\_Item business object into which the text of a message subject is stored, prior to the Retail\_Item business object's being sent to the collaboration's mail port.

Table 12. EMAIL\_SUBJECT\_ATTRIBUTE configuration property

Possible values	Usage
internals.message_subject	The default Retail_Item attribute name.

## ERROR\_EMAIL\_MSG

This property specifies the value that is placed in the EMAIL\_MSG\_ATTRIBUTE of the Retail\_Item business object when an error is detected during processing. This property can contain the actual message text.

Table 13. ERROR\_EMAIL\_MSG configuration property

Possible values	Usage
The message text for notifying that an error was detected during processing.	This property holds information that is passed to the mail port. The use of this information is dependent on that which is connected to that port.

## ERROR\_EMAIL\_ROLE

This property specifies the value that is placed in the EMAIL\_ROLE\_ATTRIBUTE of the Retail\_Item business object when an error is detected during processing. This property can contain the actual email address to which to send the error email message. There is no default value for this property.

## ERROR\_EMAIL\_SUBJECT

This property specifies the value that is placed in the EMAIL\_SUBJECT\_ATTRIBUTE of the Retail\_Item business object when an error is detected during processing. This property can contain the actual subject text.

Table 14. ERROR\_EMAIL\_SUBJECT configuration property

Possible values	Usage
internal error occurred	The default error subject text.

## ITEM\_IDENTIFICATION\_ATTRIBUTE

This property specifies the attribute of the Retail\_Item business object that contains a unique identification value for the business object.

**Note:** The value in the Possible values column includes a space to allow it to fit into the table cell. The actual value does not include a space.

Table 15. ITEM\_IDENTIFICATION\_ATTRIBUTE configuration property

Possible values	Usage
item.itemInformation.globalTradeItemNumber.gtin	The default Retail_Item attribute name.

## ITEM\_STATUS\_ATTRIBUTE

This property specifies the attribute of the Retail\_Item business object that contains the status of the business object being processed.

Table 16. ITEM\_STATUS\_ATTRIBUTE configuration property

Possible values	Usage
internals.item_status	The default Retail_Item attribute name.

## LOG\_APPROVED\_ITEM

This property specifies whether the collaboration logs the business object being processed when the object status is Approved.

Table 17. LOG\_APPROVED\_ITEM configuration property

Possible values	Usage
True (default)	The collaboration logs the business object with a status of Approved.
False	The collaboration does not log the business object with a status of Approved.

## LOG\_ERROR\_ITEM

This property specifies whether the collaboration logs the business object being processed when an error is detected during processing. Note that the detected error is logged if tracing is enabled for the collaboration.

Table 18. LOG\_ERROR\_ITEM configuration property

Possible values	Usage
False (default)	The collaboration does not log the business object in addition to the error log.
True	The collaboration logs the business object in addition to the error log.

## LOG\_REJECTED\_ITEM

This property specifies whether the collaboration logs the business object being processed when the object status is Rejected.

Table 19. LOG\_REJECTED\_ITEM configuration property

Possible values	Usage
False (default)	The collaboration does not log the business object with a status of Rejected.
True	The collaboration logs the business object with a status of Rejected.

## QUALIFICATION\_FAILED\_EMAIL\_MSG

This property specifies the value that is placed in the EMAIL\_MSG\_ATTRIBUTE of the Retail\_Item business object when the status of the Retail\_Item returned from the validating collaboration is Rejected. This property can contain the actual message text.

Table 20. QUALIFICATION\_FAILED\_EMAIL\_MSG configuration property

Possible values	Usage
The message text for notifying that the status of the Retail_Item returned from the validating collaboration is Rejected.	This property holds information that is passed to the mail port. The use of this information is dependent on that which is connected to that port.

## REJECT\_EMAIL\_MSG

This property specifies the value that is placed in the EMAIL\_MSG\_ATTRIBUTE of the Retail\_Item business object when the status of the item received in the From port is Rejected. This property can contain the actual message text.

Table 21. *REJECT\_EMAIL\_MSG* configuration property

Possible values	Usage
The message text for notifying that an item has a status of Rejected.	This property holds information that is passed to the mail port. The use of this information is dependent on that which is connected to that port.

## REJECT\_EMAIL\_ROLE

This property specifies the value that is placed in the EMAIL\_ROLE\_ATTRIBUTE of the Retail\_Item business object when the status of the item received on the From port is Rejected. This property can contain the actual email address to which to send the rejected email message. There is no default value for this property.

## REJECT\_EMAIL\_SUBJECT

This property specifies the value that is placed in the EMAIL\_SUBJECT\_ATTRIBUTE of the Retail\_Item business object when the status of the item received on the From port is Rejected. This property can contain the actual subject text.

Table 22. *REJECT\_EMAIL\_SUBJECT* configuration property

Possible values	Usage
item rejected	The default item rejected subject text.

## RETAIN\_ITEM\_IN\_LOCAL\_STORE

This property specifies whether the collaboration saves the Retail\_Item business object in a local item store at the end of collaboration processing.

Table 23. *RETAIN\_ITEM\_IN\_LOCAL\_STORE* configuration property

Possible values	Usage
False (default)	The collaboration does not save the item by sending it to its local_store port.
True	The collaboration saves the item by sending it, along with the Create verb, to its local_store port.

## SEND\_MAIL\_ON\_APPROVAL

This property specifies whether the collaboration sends the Retail\_Item to the mail port if the business object status is Approved.

Table 24. *SEND\_MAIL\_ON\_APPROVAL* configuration property

Possible values	Usage
False (default)	The collaboration does not send the Retail_Item business object to its mail port if it has a status of Approved.
True	The collaboration sends the Retail_Item business object containing an approval message to its mail port if the item has a status of Approved.

## SEND\_MAIL\_ON\_ERROR

This property specifies whether the collaboration sends the Retail\_Item to the mail port if an error is detected during the processing of the Retail\_Item business object.



Table 25. *SEND\_MAIL\_ON\_ERROR* configuration property

Possible values	Usage
False (default)	The collaboration does not send the Retail_Item business object to its mail port if an error is detected during the processing of the item.
True	The collaboration sends the Retail_Item business object containing an error message to its mail port if an error is detected during the processing of the item.

## SEND\_MAIL\_ON\_REJECTION

This property specifies whether the collaboration sends the Retail\_Item to the mail port if the business object status is Rejected.

Table 26. *SEND\_MAIL\_ON\_REJECTION* configuration property

Possible values	Usage
False (default)	The collaboration does not send the Retail_Item business object to its mail port if the item has a status of Rejected.
True	The collaboration sends the Retail_Item business object containing a rejection message to its mail port if the item has a status of Rejected.

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## Viewing collaboration messages

To view an explanation of this collaboration's messages, invoke Message Browser and open the collaboration's message file.

To invoke Message Browser and open the collaboration message file, complete the following actions:

1. In the Start menu, click **Programs > CrossWorlds > Server and Tools > Message Browser**.
2. On the **File** menu, click **Open**.
3. Use the **Look In** field to change the current folder to:  
*IBM\_CrossWorlds\_root\_dir\collaborations\messages\Process\_Reviewed\_Item.txt*

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## See also

- DataStore Collaboration
- ItemCollector Collaboration
- ItemValidation Collaboration
- Retail\_Item Business Object



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