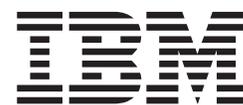


IBM CrossWorlds
WebSphere[®] Business Integration for
Retail Distribution



UCCnetMessageReceive 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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UCCnetMessageReceive collaboration

The UCCnetMessageReceive collaboration receives messages from UCCnet, acting as an interface between the Trading Partner Interchange (TPI) server and any other components bound to this collaboration for continued processing. The collaboration iterates through a UCCnet message, separating each instance of an Item Publication, and sending each through processing. If the UCCnet message does not contain Item Publications, the message is searched for item and message errors sent from UCCnet. Any error found is logged and processing stops for that message.

Item Publication commands are used to publish, or send, information to demand-side trading partners utilizing UCCnet. This collaboration currently supports only UCCnet Item Publication commands required for item synchronization, which include the following:

PUB_RELEASE_NEW_ITEM

Used to notify all demand-side trading partners that a new item has been submitted (published) to UCCnet by the supply-side trading partner.

PUB_RELEASE_INITIAL_ITEM_LOAD

Used by a supply-side trading partner to initiate synchronization of data for items that were traded prior to the supply-side trading partner utilizing UCCnet or to initiate resynchronization of item data. From the viewpoint of the demand-side trading partner, this command is handled as a batch of PUB_RELEASE_NEW_ITEM commands.

PUB_RELEASE_CORRECTION

Used to notify all demand-side trading partners that an existing item is being updated to reflect changes in data previously contained within UCCnet. This command can be performed only on items that have been previously published.

PUB_RELEASE_DATA_CHANGE

Another command used to notify all demand-side trading partners that an existing item is being updated to reflect changes in data previously contained within UCCnet. However, when a supply-side trading partner issues a PUB_RELEASE_DATA_CHANGE command to UCCnet, the command creates a new item with the new data changes with the same identification number, as opposed to simply updating the existing item with new data (such as the PUB_RELEASE_CORRECTION command performs). The demand-side trading partner receives the PUB_RELEASE_DATA_CHANGE showing the new item that is to replace the old one.

PUB_RELEASE_WITHDRAW

Used to notify one or more demand-side trading partners that an item is temporarily unavailable from the supply-side trading partner (a seasonal item, for instance). No additional item data synchronization occurs with the selected demand-side trading partners for this particular item.

PUB_RELEASE_DELIST

Used to notify all demand-side trading partners that an item is no longer being manufactured by the supply-side trading partner and must be removed from the demand-side trading partners' systems. No additional item data synchronization occurs for this particular item.

The UCCnetMessageReceive collaboration handles the complete set of item description fields used by UCCnet.

Required documents

The UCCnetMessageReceive collaboration is based on CollaborationFoundation and uses its features, ports, and configuration properties. UCCnetMessageReceive also has features, ports, and configuration properties unique to it.

To create and configure a UCCnetMessageReceive collaboration object, use the following documents:

- This document for the UCCnetMessageReceive collaboration-specific information.
 - Standard Collaboration Processes for information about business processes inherited from CollaborationFoundation.
 - Standard Collaboration Properties for information about configuration properties inherited from CollaborationFoundation.
 - Collaboration Development Guide for information about CollaborationFoundation, and for general information about creating and configuring collaboration objects.
-

Collaboration setup

This section includes the following information:

- “Port information”
- “Setting up the collaboration” on page 4

Port information

The following figure illustrates UCCnetMessageReceive collaboration’s ports, as they are displayed in IBM® CrossWorlds® System Manager (CSM):

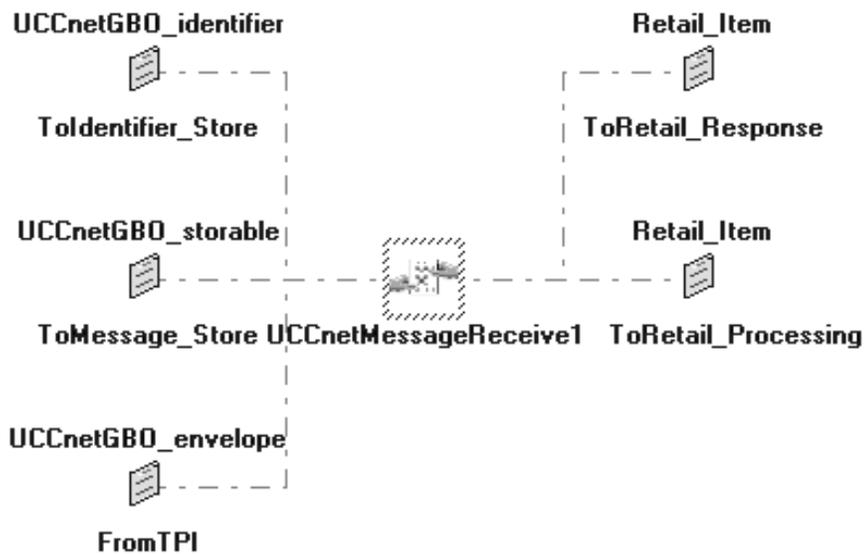


Figure 1. UCCnetMessageReceive collaboration's ports

Note: In the tables throughout this section, spaces have been inserted in some values in the Business object, Bound to, and Function columns to enable the entries to fit in the table cells. The actual values do not include spaces.

Table 1. Port name: FromTPI

Business object	Bound to	Function	Verbs used
UCCnetGBO_envelope (result of UCCnet_envelope business object passing from the TPI connector through the UCCnet_envelope_to_UCCnetGBO_envelope map)	TPI connector	Receives the triggering business object. At the end of a synchronous call, this port also returns the triggering business object to the source application when the collaboration ends successfully.	Create

Table 2. Port name: ToRetail_Processing

Business object	Bound to	Function	Verbs used
Retail_Item	A collaboration or connector that provides continued processing of the Retail_Item business object.	Sends the Retail_Item to the collaboration or connector for further processing.	Create

Table 3. Port name: ToMessage_Store

Business object	Bound to	Function	Verbs used
UCCnetGBO_storable	A persistent storage mechanism, such as an implementation instance of the IBM CrossWorlds Collaboration for Data Storage.	Persists the UCCnetGBO_storable business object to a local message store.	Create, Retrieve, Update, Delete

Table 4. Port name: ToRetail_Response

Business object	Bound to	Function	Verbs used
Retail_Item	UCCnetMessage Send collaboration	On the pend or rejection of an invalid item, sends the Retail_Item to the UCCnetMessage Send collaboration for immediate transmittal to UCCnet.	Create

Table 5. Port name: Toidentifier_Store

Business object	Bound to	Function	Verbs used
UCCnetGBO_identifier	A persistent storage mechanism, such as an implementation instance of the IBM CrossWorlds Collaboration for Data Storage.	Persists the UCCnetGBO_identifier business object to an identifier store.	Create, Retrieve, Update, Delete

Setting up the collaboration

To set up UCCnetMessageReceive as a stand-alone collaboration object, complete the following steps:

1. Create the UCCnetMessageReceive collaboration object.
2. Bind the ports as described in "Port information" on page 2.
3. Set the "Configuration properties" on page 8 for UCCnetMessageReceive.

Synchronization process

This section illustrates the following business processes for this collaboration:

- "Overall process logic"
- "Inherited process logic" on page 8

Overall process logic

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

1. The communication process begins when the TPI server receives the UCCnet worklist. The TPI server decrypts the message, writes it to a directory, and notifies the TPI connector with the data necessary to retrieve the document.

2. The TPI connector starts the flow through the UCCnetMessageReceive collaboration by instantiating the IBM CrossWorlds XML Data Handler with the received UCCnet message, which contains the UCCnet worklist.
3. The IBM CrossWorlds XML Data Handler creates a UCCnet_envelope business object containing the entire UCCnet message, including each individual data instance and the commands related to it.
4. The TPI connector checks for subscriptions to the UCCnet_envelope business object by collaborations. The UCCnetMessageReceive collaboration subscribes to this business object. Therefore, the UCCnetMessageReceive collaboration is passed the UCCnet_envelope business object through its FromTPI port. However, first the UCCnet_envelope business object is converted to a UCCnetGBO_envelope business object by passing through the UCCnet_envelope_to_UCCnetGBO_envelope map.
5. The UCCnetMessageReceive collaboration iterates through the UCCnetGBO_envelope business object, separating each instance of an Item Publication command. It allows UDEX category codes as received by UCCnet to be changed to internal category codes through the collaboration configuration property CATEGORYMAP_FILE (see the section “Mapping category codes” on page 6 for more information on this feature; “CATEGORYMAP_FILE” on page 9 for more information on the CATEGORYMAP_FILE property).
6. For an Item Publication with a PUB_RELEASE_NEW_ITEM, PUB_RELEASE_DATA_CHANGE, PUB_RELEASE_WITHDRAW, or PUB_RELEASE_DELIST command, the UCCnetMessageReceive collaboration accommodates persisting the UCCnetGBO_envelope business object to a local identifier store by sending the object to its ToIdentifier_Store port (see the section “Persisting items to a local identifier store” on page 6 for more information on this feature). Before sending the business object to the ToIdentifier_Store port, the collaboration can ensure that a duplicate item doesn’t already exist through configuration of the FILTER_DUPLICATE configuration property (see the section “Filtering to eliminate processing of duplicate items” on page 8 for more information on this feature; “FILTER_DUPLICATE” on page 10 for more information on the FILTER_DUPLICATE property).
7. The UCCnetMessageReceive collaboration accommodates persisting the UCCnetGBO_envelope business object to a local message store for use in a return message by sending it to its ToMessage_Store port (see the section “Persisting items to a local message store” on page 7 for more information on this feature).
8. The UCCnetMessageReceive collaboration examines the UCCnetGBO_envelope business object to detect whether certain attributes required by UCCnet are missing, or if the item is from a vendor or in a category accepted by the demand-side trading partner. See the section “Filtering publication requests” on page 7 for more information about filtering business objects. Based on this analysis, the collaboration handles processing as follows:
 - If the UCCnetMessageReceive collaboration detects that certain attributes required by UCCnet are missing, or that the item is from a vendor or in a category not accepted by the demand-side trading partner, it creates a Retail_Item business object by passing the UCCnetGBO_envelope business object containing the individual Item Publication command and its data through the map specified in the TORETAIL_RESPONSE_MAP property (see “TORETAIL_RESPONSE_MAP” on page 11 for more information on this property). It then handles the resulting business object according to the value specified in the FILTER_FAIL_RESPONSE configuration property (see

“FILTER_FAIL_RESPONSE” on page 10 for more information about this property). Any status specified in the FILTER_FAIL_RESPONSE property is attached regardless of what the original message type was in the UCCnetGBO_envelope business object. The collaboration then sends this Retail_Item business object through its ToRetail_Response port to the UCCnetMessageSend collaboration for transmittal to UCCnet.

- If the UCCnetMessageReceive collaboration detects that all required information is complete and that the item is from a vendor and in a category accepted by the demand-side trading partner, it creates a Retail_Item business object by passing the UCCnetGBO_envelope business object containing the individual Item Publication command and its data through the map specified in the TORETAIL_PROCESSING_MAP property (see “TORETAIL_PROCESSING_MAP” on page 11 for more information on this property). It then sets the status of the resulting item to Pending, and sets the command type according to the original message type received from UCCnet. It sends this Retail_Item business object through its ToRetail_Processing port to a collaboration or connector that provides continued processing of the business object.

The UCCnetMessageReceive collaboration waits for a return from the processing collaboration before sending the next item.

Mapping category codes

The UCCnetMessageReceive collaboration allows UDEX category codes as received by UCCnet to be changed to internal category codes through the collaboration configuration property CATEGORYMAP_FILE. This property specifies the path and name of a file that contains a list of categories to be mapped and the values to which they are mapped.

The collaboration checks the `item.itemInformation.categoryList.categoryCode` field of the UCCnetGBO_envelope business object. If the item contains a category value that matches a value listed in the file specified by the CATEGORYMAP_FILE property, the collaboration changes that category value to the new value for it indicated in the file. If the category value is not listed in this file, the collaboration does not change the value.

Entries in this file have the structure `category,newCategory`, where the value represented by `category` is changed to the new value represented by `newCategory` (for instance, `cat0001,FLCat001`).

Persisting items to local identifier and message stores

The UCCnetMessageReceive collaboration accommodates the ability to persist the UCCnetGBO_envelope business object to local identifier and message stores.

Persisting items to a local identifier store: For an Item Publication with a `PUB_RELEASE_NEW_ITEM`, `PUB_RELEASE_DATA_CHANGE`, `PUB_RELEASE_WITHDRAW`, or `PUB_RELEASE_DELIST` command, the UCCnetMessageReceive collaboration accommodates persisting the business object to a local identifier store by sending it to its `ToIdentifier_Store` port. The `ToIdentifier_Store` port can then be bound to a persistence mechanism, such as an instance of the IBM CrossWorlds Collaboration for Data Storage.

Before sending the UCCnetGBO_envelope business object to the port, the collaboration first converts the UCCnetGBO_envelope business object to a UCCnetGBO_identifier business object by passing it through the map specified in the `TOIDENTIFIER_STORE_MAP` property (see “TOIDENTIFIER_STORE_MAP” on page 11 for more information on this property). The collaboration can also

check if a duplicate item already exists in the identifier store. See the section “Filtering to eliminate processing of duplicate items” on page 8 for more information on this feature.

Persisting items to a local message store: The UCCnetMessageReceive collaboration accommodates persisting the business object to a local message store for use in a return message by sending it to its ToMessage_Store port. The ToMessage_Store port can then be bound to a persistence mechanism, such as an instance of the IBM CrossWorlds Collaboration for Data Storage.

Before persisting the UCCnetGBO_envelope business object to the message store, the collaboration first converts the UCCnetGBO_envelope business object to a UCCnetGBO_storable business object by passing it through the map specified in the TOMESSAGE_STORE_MAP property (see “TOMESSAGE_STORE_MAP” on page 11 for more information on this property). The UCCnetGBO_storable business object is a combination of one instance of an Item Publication, together with the message header and routing information for the worklist message in which the item was contained.

Filtering publication requests

The UCCnetMessageReceive collaboration can filter the publication requests that arrive from UCCnet to ensure that certain attributes required by UCCnet are present, or that the items are from a supply-side trading partner or in a category accepted by the demand-side trading partner. Item Publications with PUB_RELEASE_NEW_ITEM, PUB_RELEASE_DATA_CHANGE, PUB_RELEASE_WITHDRAW, or PUB_RELEASE_DELIST commands can also be checked against an existing identifier store to eliminate processing of duplicate items.

Filtering based on the presence of required attributes: The user can specify through an external file that certain UCCnetGBO_envelope attributes must be present and not contain NULL or BLANK values (as determined by the IBM CrossWorlds business object methods isNull() and isBlank(); isBlank() returns true when an attribute contains a zero-length string). The path and name of this file are specified in the REQUIRED_ATTRIBUTE_FILE configuration property.

The collaboration checks the attributes contained in the UCCnetGBO_envelope business object against the list of attributes named in the file specified in the REQUIRED_ATTRIBUTE_FILE property. If any of the attributes are missing or are present but missing data, the collaboration logs the business object and handles it according to the value specified in the FILTER_FAIL_RESPONSE configuration property. If no file is specified in the REQUIRED_ATTRIBUTE_FILE property, or if no fields are indicated within it, all items are accepted for further processing by the collaboration.

Filtering based on items belonging to approved supply-side trading partners:

The user can specify through an external file a list of trading partners or vendors from which items are accepted. The path and name of this file are specified in the VENDOR_FILE configuration property. The collaboration checks the notification.entityIdentification.globalLocationNumber.gln field of the UCCnetGBO_envelope business object. If the item is from a vendor listed in the file specified in the VENDOR_FILE property, the collaboration processes it normally. If the item is from a vendor not listed in this file, the collaboration logs it and handles it according to the value specified in the FILTER_FAIL_RESPONSE configuration property. If no file is specified in the property, all items are accepted for further processing by the collaboration.

Entries in the file specified in the `VENDOR_FILE` configuration property have the structure `vendorGLN,other_data,other_data,...`, where the `vendorGLN` is the GLN (assigned by UCCnet) to an organization permitted through the collaboration's vendor filter and the `other_data` entries are other data entries the user might want to include in the file. The vendor GLN must be the first entry in the line. Any number of associated attributes can be appended to the line as long as they are separated by commas (.). Do not place a comma before the vendor GLN. The following is an example of a valid entry:

```
00011112222333,TestVendor,(111)111-1111,contact@TestVendor.com
```

Filtering based on items belonging to accepted categories: The user can specify through an external file a list of categories from which items are accepted. The path and name of this file are specified in the `CATEGORY_FILE` configuration property. The collaboration checks the `item.itemInformation.categoryList.categoryCode` field of the `UCCnetGBO_envelope` business object. If the item is from a category listed in the file specified in the `CATEGORY_FILE` property, the collaboration processes it normally. If the item is not from a category listed in this file, it handles it according to the value specified in the `FILTER_FAIL_RESPONSE` configuration property. If no file is specified in the property, all items are accepted for further processing by the collaboration.

Each line of the file must contain only one category value. Each entry can include embedded special characters, such as periods (.) and commas (,), as long as the characters are valid within the category. Do not place characters in the line other than those specified in the category. The following is an example of a valid entry:

```
UDEX.0001.0001.001
```

Filtering to eliminate processing of duplicate items: For an Item Publication with a `PUB_RELEASE_NEW_ITEM`, `PUB_RELEASE_DATA_CHANGE`, `PUB_RELEASE_WITHDRAW`, or `PUB_RELEASE_DELIST` command, the `UCCnetMessageReceive` collaboration persists the `UCCnetGBO_envelope` business object through its `ToIdentifier_Store` port to a local identifier store as a `UCCnetGBO_identifier` business object. Before persisting the item, the collaboration checks the value of the `FILTER_DUPLICATE` configuration property. If the value is `true`, the collaboration checks if an item with an identical `gtin`, `version`, and `topic` exists in the identifier store. If an identical item does exist, the second entry with identical information is logged as a duplicate and further processing of the identical item ends. If an identical item does not exist, the item is added to the local identifier store and processed normally.

Inherited process logic

This collaboration inherits the following business process from the `CollaborationFoundation` template:

- Exception handling

For information on this process, see `Standard Collaboration Processes`.

Configuration properties

This section describes the following properties for this collaboration:

- “Standard properties” on page 9
- “Collaboration-specific properties” on page 9

Standard properties

This collaboration inherits the following standard configuration properties from the CollaborationFoundation template:

- ADDITIONAL_RETRIEVE
- 1_FILTER_ATTRIBUTE
- INFORMATIONAL_EXCEPTIONS
- 1_INCLUDE_VALUES
- 1_FAIL_ON_INVALID_VALUE
- CONVERT_UPDATE
- USE_RETRIEVE
- 1_EXCLUDE_VALUES
- SEND_EMAIL
- CONVERT_CREATE

For more information on these configuration properties, see Standard Collaboration Properties.

Note: Do not enable this collaboration's inherited configuration properties. Changing default values for these inherited properties can cause processing to malfunction.

Collaboration-specific properties

This collaboration has the following collaboration-specific configuration properties:

- "CATEGORY_FILE"
- "CATEGORYMAP_FILE"
- "DEBUG" on page 10
- "FILTER_DUPLICATE" on page 10
- "FILTER_FAIL_RESPONSE" on page 10
- "TOIDENTIFIER_STORE_MAP" on page 11
- "TOMESSAGE_STORE_MAP" on page 11
- "REQUIRED_ATTRIBUTE_FILE" on page 11
- "TORETAIL_PROCESSING_MAP" on page 11
- "TORETAIL_RESPONSE_MAP" on page 11
- "VENDOR_FILE" on page 12
- "UTILITY_CLASS" on page 12

CATEGORY_FILE

This property specifies the path and name of a file that contains a list of the categories from which items are accepted. See the section "Filtering based on items belonging to accepted categories" on page 8 for information on how to create this file.

The CATEGORY_FILE property has no default value.

CATEGORYMAP_FILE

This property specifies the path and name of a file that contains a list of categories to be mapped and the values to which they are mapped. Mapping might be necessary to change UDEX category codes as received by UCCnet to the demand-side trading partner's internal category codes, for instance. See the section "Mapping category codes" on page 6 for information on how to create this file.

The CATEGORYMAP_FILE property has no default value.

DEBUG

This property allows debug messages to be sent to the IBM CrossWorlds InterChange Server (ICS) trace log. Messages include variable values, object values, and other run-time status.

Note: Use this property only for development testing purposes; do not use it in production code.

Table 6. DEBUG configuration property

Possible values	Usage
False (default)	Prevents debug messages from being sent to the trace log of the ICS.
True	Allows debug messages to be sent to the trace log of the ICS. Do not use this setting for production operation.

FILTER_DUPLICATE

This property controls whether the collaboration checks the identifier store for duplicates when PUB_RELEASE_NEW_ITEM, PUB_RELEASE_DATA_CHANGE, PUB_RELEASE_WITHDRAW, or PUB_RELEASE_DELIST Item Publications are received.

Table 7. FILTER_DUPLICATE configuration property

Possible values	Usage
true (default)	The collaboration checks the identifier store for duplicates.
false	The collaboration does not check the identifier store for duplicates. As a result, duplicated items will exist in the identifier log. Multiple entries in the identifier store must be deleted manually.

FILTER_FAIL_RESPONSE

This property determines how an item is processed if the collaboration discovers that it contains invalid data or that required data is missing from it.

Table 8. FILTER_FAIL_RESPONSE configuration property

Possible values	Usage
Pend (default)	The status of Retail_Item with missing or invalid information is set to Pending, and the business object is sent to the ToRetail_Response port so that a response can be built and sent to UCCnet.
Reject	The status of Retail_Item with missing or invalid information is set to Rejected, and the business object is sent to the ToRetail_Response port so that a response can be built and sent to UCCnet.
None	The Retail_Item with missing or invalid information continues processing. No response is built or sent to UCCnet.

TOIDENTIFIER_STORE_MAP

This property contains the name of the map used to convert the UCCnetGBO_envelope business object to a UCCnetGBO_identifier business object. The default map name can be changed to any value desired. A space has been inserted in the value in the Possible values column to enable the entry to fit in the table cell. The actual value does not include a space.

Table 9. TOIDENTIFIER_STORE_MAP configuration property

Possible values	Usage
UCCnetGBO_envelope_to_UCCnetGBO_identifier	The name of the map for the ToIdentifier_Store port.

TOMESSAGE_STORE_MAP

This property contains the name of the map used to convert the UCCnetGBO_envelope business object to a UCCnetGBO_storable business object. The default map name can be changed to any value desired. A space has been inserted in the value in the Possible values column to enable the entry to fit in the table cell. The actual value does not include a space.

Table 10. TOMESSAGE_STORE_MAP configuration property

Possible values	Usage
UCCnetGBO_envelope_to_UCCnetGBO_storable	The name of the map for the ToMessage_Store port.

REQUIRED_ATTRIBUTE_FILE

This property specifies the path and name of a file that contains a list of UCCnetGBO_envelope attributes, which if present in the UCCnetGBO_envelope business object, must contain data. See the section “Filtering based on the presence of required attributes” on page 7 for information on how to create this file.

The REQUIRED_ATTRIBUTE_FILE property has no default value.

TORETAIL_PROCESSING_MAP

This property contains the name of the map used to convert the UCCnetGBO_envelope business object to a Retail_Item business object when the object is being sent to the ToRetail_Processing port. The default map name can be changed to any value desired.

Table 11. TORETAIL_PROCESSING_MAP configuration property

Possible values	Usage
UCCnetGBO_envelope_to_Retail_Item	The name of the map for the ToRetail_Processing port.

TORETAIL_RESPONSE_MAP

This property contains the name of the map used to convert the UCCnetGBO_envelope business object to a Retail_Item business object when the object is being sent to the ToRetail_Response port. The default map name can be changed to any value desired.

Table 12. TORETAIL_RESPONSE_MAP configuration property

Possible values	Usage
UCCnetGBO_envelope_to_Retail_Item	The name of the map for the ToRetail_Response port.

VENDOR_FILE

This property specifies the path and name of a file that contains a list of the vendors from which items are accepted. See the section “Filtering based on items belonging to approved supply-side trading partners” on page 7 for information on how to create this file.

The VENDOR_FILE property has no default value.

UTILITY_CLASS

This property specifies the class name required by the collaboration to perform the filtering logic. The collaboration uses this property to check for the presence of the class before attempting to execute the required filtering logic. If this class is not available, the collaboration returns the Retail_Item business object with its status set to Error.

Table 13. UTILITY_CLASS configuration property

Possible values	Usage
com.ibm.wbi.retail.utils.RetailUtility	The default external Java™ class used by the collaboration to perform the filtering logic.

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\  
UCCnetMessageReceive.txt
```

See also

- DataStore Collaboration
- UCCnetMessageSend Collaboration
- Retail_Item Business Object
- UCCnet_envelope Business Object
- UCCnetGBO_envelope Business Object
- UCCnetGBO_identifier Business Object
- UCCnetGBO_storable Business Object

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