

*IBM CrossWorlds*  
WebSphere® Business Integration for  
Retail Distribution



# Retail\_Item Business Object

*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 17.

**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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## Retail\_Item business object

The Retail\_Item business object is the basic data element carried through the Role\_Email, Process\_Reviewed\_Item, UCCnetMessageSend, UCCnetMessageReceive, ItemCollector, ItemValidation, and ItemStore collaborations. It contains a detailed description of the item being processed, internal data attributes that are used by the various collaborations, and specific customer data. The specific customer data can be customized for each implementation. Also included in the business object is a list of required and missing attributes and their values. This data structure detects attributes that are required to contain valid settings by the implementation's business process, but have no values set.

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### Business object structure

The Retail\_Item business object is a hierarchical business object.

**Note:** In tables throughout this document, spaces have been inserted in some values in the Name and Type columns to enable the entries to fit in the table cells. The actual values do not include spaces.

*Table 1. Attributes for Retail\_Item business object*

Name	Type	Key	Cardinality
item	Retailer_item	x	1
internals	Retail_internals	x	1
customer_data	Retail_customer_data		1

The Retail\_Item business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- Retailer\_item is described in the section "Retailer\_item child business object".
- Retail\_internals is described in the section "Retail\_internals child business object" on page 12.
- Retail\_customer\_data is described in the section "Retail\_customer\_data child business object" on page 13.

Each of these sections includes a description of the child business object, followed by links to descriptions of any child business objects on which its attributes are based.

### Retailer\_item child business object

The Retailer\_item child business object is a hierarchical business object. It holds the following data:

- Document version, status, and related dates, through the documentInformation attribute.
- Detailed data characteristics of the retail item, including global identifiers such as the trading partner and gtin, along with other item data such as the brand, product type, dimensions, categories, hazmat information, and related dates, through the itemInformation attribute (some of the data elements are optional).

- Recursive child items that are linked to the parent item, through the itemLinks and itemDetailsRecursive attributes.

Retailer\_item can contain one or more child items to hold this data. These nested child business objects contain similar attributes, sequence, and structure as those specified in the UCCnet Document Type Definition (DTD). Refer to UCCnet documentation that describes the Publish command for more details about the attributes in this business object.

All attributes in the Retailer\_item child business object are dependent on the data source of the item. The data source can be a user interface, a database, or a catalog that publishes items, such as UCCnet.

*Table 2. Attributes for child business object Retailer\_item*

Name	Type	Key	Cardinality
documentInformation	Retailer_documentInformation		1
itemInformation	Retailer_itemInformation	x	1
itemLinks	Retailer_itemLinks		1
itemDetailsRecursive	Retailer_itemDetailsRecursive		1

Each of the child business objects is described as follows:

- Retailer\_documentInformation is described in the section “Retailer\_documentInformation child business object”.
- Retailer\_itemInformation is described in the section “Retailer\_itemInformation child business object”.
- Retailer\_itemLinks is described in the section “Retailer\_itemLinks child business object” on page 11.
- Retailer\_itemDetailsRecursive is described in the section “Retailer\_itemDetailsRecursive child business object” on page 11.

### **Retailer\_documentInformation child business object**

The Retailer\_documentInformation child business object is a flat business object.

*Table 3. Attributes for child business object Retailer\_documentInformation*

Name	Type
documentStructureVersion	String
status	String
creationDate	String
lastUpdateDate	String

### **Retailer\_itemInformation child business object**

The Retailer\_itemInformation child business object is a hierarchical business object.

*Table 4. Attributes for child business object Retailer\_itemInformation*

Name	Type	Key	Cardinality
itemEffectiveDate	String		

Table 4. Attributes for child business object *Retailer\_itemInformation* (continued)

Name	Type	Key	Cardinality
itemBrandName	String		
productTypeName	String		
globalTradeItemNumber	Retailer_globalTradeItemNumber	x	1
alternateProductIdentification	Retailer_alternateProductIdentification		1
versionStatus	Retailer_versionStatus		1
globalLocationNumber	Retailer_globalLocationNumber		1
alternatePartyIdentification	Retailer_alternatePartyIdentification		1
representingParty	Retailer_representingParty		1
categoryList	Retailer_categoryList		1
itemDimensions	Retailer_itemDimensions		1
itemHazmatInfo	Retailer_itemHazmatInfo		N
itemDescription	Retailer_itemDescription		1
itemMiscInfo	Retailer_itemMiscInfo		1
itemDates	Retailer_itemDates		1

The *Retailer\_itemInformation* child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- *Retailer\_globalTradeItemNumber* is described in the section “*Retailer\_globalTradeItemNumber* child business object” on page 4.
- *Retailer\_alternateProductIdentification* is described in the section “*Retailer\_alternateProductIdentification* child business object” on page 4.
- *Retailer\_versionStatus* is described in the section “*Retailer\_versionStatus* child business object” on page 5.
- *Retailer\_globalLocationNumber* is described in the section “*Retailer\_globalLocationNumber* child business object” on page 5.
- *Retailer\_alternatePartyIdentification* is described in the section “*Retailer\_alternatePartyIdentification* child business object” on page 6.
- *Retailer\_representingParty* is described in the section “*Retailer\_representingParty* child business object” on page 6.
- *Retailer\_categoryList* is described in the section “*Retailer\_categoryList* child business object” on page 6.
- *Retailer\_itemDimensions* is described in the section “*Retailer\_itemDimensions* child business object” on page 7.
- *Retailer\_itemHazmatInfo* is described in the section “*Retailer\_itemHazmatInfo* child business object” on page 7.
- *Retailer\_itemDescription* is described in the section “*Retailer\_itemDescription* child business object” on page 7.

- Retailer\_itemMiscInfo is described in the section “Retailer\_itemMiscInfo child business object” on page 9.
- Retailer\_itemDates is described in the section “Retailer\_itemDates child business object” on page 10.

### **Retailer\_globalTradeItemNumber child business object**

The Retailer\_globalTradeItemNumber child business object is a hierarchical business object.

*Table 5. Attributes for child business object Retailer\_globalTradeItemNumber*

Name	Type	Key	Cardinality
gtin	String	x	
contentVersion	Retailer_contentVersion		1
additionalProduct Identification	Retailer_additionalProductIdentification		N

The Retailer\_globalTradeItemNumber child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- Retailer\_contentVersion is described in the section “Retailer\_contentVersion child business object”.
- Retailer\_additionalProductIdentification is described in the section “Retailer\_additionalProductIdentification child business object”.

### **Retailer\_contentVersion child business object**

The Retailer\_contentVersion child business object is a flat business object.

*Table 6. Attribute for child business object Retailer\_contentVersion*

Name	Type
version	String

### **Retailer\_additionalProductIdentification child business object**

The Retailer\_additionalProductIdentification child business object is a flat business object.

*Table 7. Attributes for child business object Retailer\_additionalProductIdentification*

Name	Type
type	String
value	String

### **Retailer\_alterateProductIdentification child business object**

The Retailer\_alterateProductIdentification child business object is a hierarchical business object.

*Table 8. Attributes for child business object Retailer\_alterateProductIdentification*

Name	Type	Cardinality
type	String	
value	String	
contentVersion	Retailer_contentVersion	1



Table 8. Attributes for child business object  
Retailer\_alternateProductIdentification (continued)

Name	Type	Cardinality
additionalProductIdentification	Retailer_additionalProductIdentification	N

The Retailer\_alternateProductIdentification child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- Retailer\_contentVersion is described in the section “Retailer\_contentVersion child business object” on page 4.
- Retailer\_additionalProductIdentification is described in the section “Retailer\_additionalProductIdentification child business object” on page 4.

### **Retailer\_versionStatus child business object**

The Retailer\_versionStatus child business object is a flat business object.

Table 9. Attribute for child business object Retailer\_versionStatus

Name	Type
value	String

### **Retailer\_globalLocationNumber child business object**

The Retailer\_globalLocationNumber child business object is a hierarchical business object.

Table 10. Attributes for child business object Retailer\_globalLocationNumber

Name	Type	Cardinality
gln	String	
contentVersion	Retailer_contentVersion	1
additionalPartyIdentification	Retailer_additionalPartyIdentification	N

The Retailer\_globalLocationNumber child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- Retailer\_contentVersion is described in the section “Retailer\_contentVersion child business object” on page 4.
- Retailer\_additionalPartyIdentification is described in the section “Retailer\_additionalPartyIdentification child business object”.

### **Retailer\_additionalPartyIdentification child business object**

The Retailer\_additionalPartyIdentification child business object is a flat business object.

Table 11. Attributes for child business object Retailer\_additionalPartyIdentification

Name	Type
type	String
value	String

### **Retailer\_alternatePartyIdentification child business object**

The Retailer\_alternatePartyIdentification child business object is a hierarchical business object.

*Table 12. Attributes for child business object Retailer\_alternatePartyIdentification*

Name	Type	Cardinality
type	String	
value	String	
additionalPartyIdentification	Retailer_additionalParty Identification	N

The Retailer\_alternatePartyIdentification child business object includes one attribute based on a child business object called Retailer\_additionalPartyIdentification. This child business object is described in the section “Retailer\_additionalPartyIdentification child business object” on page 5.

### **Retailer\_representingParty child business object**

The Retailer\_representingParty child business object is a hierarchical business object.

*Table 13. Attributes for child business object Retailer\_representingParty*

Name	Type	Cardinality
effectiveUserId	String	
gln	String	
additionalPartyIdentification	Retailer_additionalParty Identification	N
contentVersion	Retailer_contentVersion	1

The Retailer\_representingParty child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- Retailer\_additionalPartyIdentification is described in the section “Retailer\_additionalPartyIdentification child business object” on page 5.
- Retailer\_contentVersion is described in the section “Retailer\_contentVersion child business object” on page 4.

### **Retailer\_categoryList child business object**

The Retailer\_categoryList child business object is a hierarchical business object.

*Table 14. Attribute for child business object Retailer\_categoryList*

Name	Type	Cardinality
categoryCode	Retailer_categoryCode	N

The Retailer\_categoryList child business object’s attribute is based on a child business object called Retailer\_categoryCode. This child business object is described in the section “Retailer\_categoryCode child business object”.

### **Retailer\_categoryCode child business object**

The Retailer\_categoryCode child business object is a flat business object.

Table 15. Attribute for child business object *Retailer\_categoryCode*

Name	Type
categoryCode	String

### **Retailer\_itemDimensions child business object**

The *Retailer\_itemDimensions* child business object is a flat business object.

Table 16. Attributes for child business object *Retailer\_itemDimensions*

Name	Type
size	String
sizeUnits	String
height	String
width	String
length	String
linearUnits	String
netWeight	String
grossWeight	String
weightUnits	String
volume	String
volumeUnits	String
ti	String
hi	String
pack	String
innerPack	String

### **Retailer\_itemHazmatInfo child business object**

The *Retailer\_itemHazmatInfo* child business object is a flat business object.

Table 17. Attributes for child business object *Retailer\_itemHazmatInfo*

Name	Type
hazmatNum	String
hazmatCode	String
hazmatClassCode	String
hazmatCodeQualifier	String
page	String
hazmatDescription	String
contactName	String
contactPhone	String
flashPointTemp	String
flashPointUnits	String

### **Retailer\_itemDescription child business object**

The *Retailer\_itemDescription* child business object is a hierarchical business object.

Table 18. Attributes for child business object *Retailer\_itemDescription*

Name	Type	Cardinality
itemName	String	
upcType	String	
upc	String	
replacesItem	Retailer_replacesItem	1
replacedByGtin	Retailer_replacedByGtin	1
publicOrPrivate	Retailer_publicOr Private	1

The *Retailer\_itemDescription* child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- *Retailer\_replacesItem* is described in the section “*Retailer\_replacesItem* child business object”.
- *Retailer\_replacedByGtin* is described in the section “*Retailer\_replacedByGtin* child business object”.
- *Retailer\_publicOrPrivate* is described in the section “*Retailer\_publicOrPrivate* child business object” on page 9.

### **Retailer\_replacesItem child business object**

The *Retailer\_replacesItem* child business object is a hierarchical business object.

Table 19. Attributes for child business object *Retailer\_replacesItem*

Name	Type	Cardinality
globalTradeItemNumber	Retailer_globalTrade ItemNumber	1
alternateProductIdentification	Retailer_alterate ProductIdentification	1

The *Retailer\_replacesItem* child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- *Retailer\_globalTradeItemNumber* is described in the section “*Retailer\_globalTradeItemNumber* child business object” on page 4.
- *Retailer\_alterateProductIdentification* is described in the section “*Retailer\_alterateProductIdentification* child business object” on page 4.

### **Retailer\_replacedByGtin child business object**

The *Retailer\_replacedByGtin* child business object is a hierarchical business object.

Table 20. Attributes for child business object *Retailer\_replacedByGtin*

Name	Type	Cardinality
globalTradeItemNumber	Retailer_globalTrade ItemNumber	1
alternateProductIdentification	Retailer_alterate ProductIdentification	1

The *Retailer\_replacedByGtin* child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- *Retailer\_globalTradeItemNumber* is described in the section “*Retailer\_globalTradeItemNumber* child business object” on page 4.

- Retailer\_alternateProductIdentification is described in the section “Retailer\_alternateProductIdentification child business object” on page 4.

### **Retailer\_publicOrPrivate child business object**

The Retailer\_publicOrPrivate child business object is a flat business object.

*Table 21. Attribute for child business object Retailer\_publicOrPrivate*

Name	Type
value	String

### **Retailer\_itemMiscInfo child business object**

The Retailer\_itemMiscInfo child business object is a hierarchical business object.

*Table 22. Attributes for child business object Retailer\_itemMiscInfo*

Name	Type	Cardinality
orderIncrement	String	
orderIncrementUnits	String	
minimumOrder	String	
maximumOrder	String	
minimumShip	String	
maximumShip	String	
specialHandlingCode	String	
color	String	
orderSizingFactor	String	
datedProductDays	String	
posDesc1	String	
posDesc2	String	
couponFamilyCode	String	
detailedDesc	String	
consumerUnit	Retailer_consumerUnit	1
orderable	Retailer_orderable	1
suggestedRetailPrice	Retailer_suggestedRetailPrice	1
prePricedAmount	Retailer_prePriced Amount	1

The Retailer\_itemMiscInfo child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- Retailer\_consumerUnit is described in the section “Retailer\_consumerUnit child business object”.
- Retailer\_orderable is described in the section “Retailer\_orderable child business object” on page 10.
- Retailer\_suggestedRetailPrice is described in the section “Retailer\_suggestedRetailPrice child business object” on page 10.
- Retailer\_prePricedAmount is described in the section “Retailer\_prePricedAmount child business object” on page 10.

### **Retailer\_consumerUnit child business object**

The Retailer\_consumerUnit child business object is a flat business object.

Table 23. Attribute for child business object *Retailer\_consumerUnit*

Name	Type
value	String

### **Retailer\_orderable child business object**

The *Retailer\_orderable* child business object is a flat business object.

Table 24. Attribute for child business object *Retailer\_orderable*

Name	Type
value	String

### **Retailer\_suggestedRetailPrice child business object**

The *Retailer\_suggestedRetailPrice* child business object is a hierarchical business object.

Table 25. Attribute for child business object *Retailer\_suggestedRetailPrice*

Name	Type	Cardinality
amount	Retailer_amount	N

The *Retailer\_suggestedRetailPrice* child business object's attribute is based on a child business object called *Retailer\_amount*. This child business object is described in the section "*Retailer\_amount* child business object".

### **Retailer\_amount child business object**

The *Retailer\_amount* child business object is a flat business object.

Table 26. Attributes for child business object *Retailer\_amount*

Name	Type
currencyISOCODE	String
amount	String

### **Retailer\_prePricedAmount child business object**

The *Retailer\_prePricedAmount* child business object is a hierarchical business object.

Table 27. Attributes for child business object *Retailer\_prePricedAmount*

Name	Type	Cardinality
amount	Retailer_amount	N

The *Retailer\_prePricedAmount* child business object's attribute is based on a child business object called *Retailer\_amount*. This child business object is described in the section "*Retailer\_amount* child business object".

### **Retailer\_itemDates child business object**

The *Retailer\_itemDates* child business object is a flat business object.

Table 28. Attributes for child business object *Retailer\_itemDates*

Name	Type
firstOrderDate	String
firstShipDate	String

Table 28. Attributes for child business object *Retailer\_itemDates* (continued)

Name	Type
firstArrivalDate	String
lastOrderDate	String
lastShipDate	String
lastArrivalDate	String

### **Retailer\_itemLinks child business object**

The *Retailer\_itemLinks* child business object is a hierarchical business object.

Table 29. Attribute for child business object *Retailer\_itemLinks*

Name	Type	Cardinality
childItem	Retailer_childItem	N

The *Retailer\_itemLinks* child business object's attribute is based on a child business object called *Retailer\_childItem*. This child business object is described in the section "*Retailer\_childItem* child business object".

### **Retailer\_childItem child business object**

The *Retailer\_childItem* child business object is a hierarchical business object.

Table 30. Attributes for child business object *Retailer\_childItem*

Name	Type	Cardinality
quantity	String	
globalTradeItemNumber	Retailer_globalTradeItemNumber	1
alternateProductIdentification	Retailer_alternateProductIdentification	1

The *Retailer\_childItem* child business object includes attributes based on child business objects. Each of the child business objects is described as follows:

- *Retailer\_globalTradeItemNumber* is described in the section "*Retailer\_globalTradeItemNumber* child business object" on page 4.
- *Retailer\_alternateProductIdentification* is described in the section "*Retailer\_alternateProductIdentification* child business object" on page 4.

### **Retailer\_itemDetailsRecursive child business object**

The *Retailer\_itemDetailsRecursive* child business object is a hierarchical business object. It contains the child business object called *Retailer\_childItemDetails*, which repeats for each instance of an item that is included within the parent *Retailer\_item*. This child business object is described in the section "*Retailer\_childItemDetails* child business object" on page 12.

Here is an example of how this recursivity works. Suppose a pallet of items exists that contains cases of items, which in turn, contain individual boxes of items. The parent object is the pallet of items represented by the *Retailer\_item* business object. In the pallet, there are cases of items. The cases are represented as an instance of a *Retailer\_item* inside the pallet's *Retailer\_childItemDetails* business object. Inside the cases, there are individual boxes of items. The box is represented as a *Retailer\_item* business object inside the case's *Retailer\_childItemDetails* business object.

Recursiveness can also be represented horizontally, rather than vertically. An example of a horizontal recursive product is a pallet with several different items on it. Each item on the pallet is represented as an instance of a `Retailer_item` inside multiple `Retailer_childItemDetails` business objects, which are inside the pallet parent object.

*Table 31. Attribute for child business object `Retailer_itemDetailsRecursive`*

Name	Type	Cardinality
childItemDetails	Retailer_childItemDetails	N

### **Retailer\_childItemDetails child business object**

The `Retailer_childItemDetails` child business object is a hierarchical business object.

*Table 32. Attributes for child business object `Retailer_childItemDetails`*

Name	Type	Cardinality
quantity	String	
item	Retailer_item	1

The `Retailer_childItemDetails` child business object includes one attribute based on a child business object called `Retailer_item`. This child business object is described in the section “`Retailer_item` child business object” on page 1.

### **Retail\_internals child business object**

The `Retail_internals` child business object is a hierarchical business object. It contains the data used by collaborations that process the item. It can be modified to fit any implementation. The business object contains the status of the item (i.e., Approved, Rejected, Pending, etc.), the command attached to the item, the correlationID (which is used to track the item through asynchronous processing), messaging information used to provide notification to a user, and other item information. It also includes one attribute based on a child business object called `Retail_Missing_Attributes`, which represents all the attributes in the item that have been identified to be missing (not containing values). It is described in the section “`Retail_Missing_Attributes` child business object” on page 13.

*Table 33. Attributes for child business object `Retail_internals`*

Name	Type	Key	Cardinality
item_status	String		
item_command	String	x	
correlationID	String		
message_text	String		
message_subject	String		
message_recipient_role	String		
WF_graph	String		
date_processed	String		
time_processed	String		
responder_name	String		
customer_data_missing_attributes	Retail_Missing_Attributes		N



### Retail\_Missing\_Attributes child business object

The Retail\_Missing\_Attributes child business object is an array of name and value pairs. It represents all the attributes in the item that have been identified to be missing (not containing values). The fully qualified attribute name must be used to represent the value of attribute\_name. One collaboration can identify the missing attributes, while another collaboration can supply the correct values for the attributes. This child business object is a flat business object.

Table 34. Attributes for child business object Retail\_Missing\_Attributes

Name	Type	Key
attribute_name	String	x
attributeValue	String	

### Retail\_customer\_data child business object

The Retail\_customer\_data child business object includes extensions to the item description. These extensions, contained in attributes, can be customized for each implementation. A customized business process must provide the values for the attributes. This child business object is a flat business object.

Table 35. Attributes for child business object Retail\_customer\_data

Name	Type	Key
vendorAddress	String	x
vendorCity	String	
vendorStateCode	String	
vendorZip	String	
brokerName	String	
salesRepName	String	
vendorEIN	String	
planogramNumber	String	
reclamationGuarantee	String	
reclamationBillingAddress	String	
reclamationBillingCity	String	
reclamationBillingStateCode	String	
reclamationBillingZip	String	
reclamationChuteMethodNumber	String	
termsOfSalePercent	String	
termsOfSaleDays	String	
netDays	String	
remitToAddress	String	
remitToCity	String	
remitToStateCode	String	
remitToZip	String	
bracketCost_1	String	
bracketConstraintMin_1	String	
bracketConstraintMax_1	String	

Table 35. Attributes for child business object *Retail\_customer\_data* (continued)

Name	Type	Key
bracketCost_2	String	
bracketConstraintMin_2	String	
bracketConstraintMax_2	String	
bracketCost_3	String	
bracketConstraintMin_3	String	
bracketConstraintMax_3	String	
bracketCost_4	String	
bracketConstraintMin_4	String	
bracketConstraintMax_4	String	
bracketCost_5	String	
bracketConstraintMin_5	String	
bracketConstraintMax_5	String	
bracketCost_6	String	
bracketConstraintMin_6	String	
bracketConstraintMax_6	String	
bracketCost_7	String	
bracketConstraintMin_7	String	
bracketConstraintMax_7	String	

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## Supported verbs

The *Retail\_Item* business object supports the following verbs:

- Request Processing (sending to the destination application): Create, Retrieve, Update, and Delete
- Event Notification (receiving from the source application): Create, Retrieve, Update, and Delete

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## Examining the object

To examine a listing of the attributes of the *Retail\_Item* business object, use the IBM® CrossWorlds® System Manager or IBM CrossWorlds Business Object Designer.

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## See also

For more information on related business objects and collaborations, see the following documents:

- ItemCollector Collaboration
- ItemStore Collaboration
- ItemValidation Collaboration
- Process\_Reviewed\_Item Collaboration
- Role\_Email Collaboration
- UCCnetMessageReceive Collaboration
- UCCnetMessageSend Collaboration

- UCCnet\_envelope Business Object
- UCCnetGBO\_envelope Business Object



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