



# Business Message Standard (BMS) Price Synchronisation

*BMS Release: 3.1.3, SMG Name: GDS*

*Issue 1.3.5, 23-May-2017*



## Document Summary

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## Business Requirements Document (BRAD) Reference

BRAD Title:	BRD Date:	BRAD Version
BRAD Price Synchronisation in the GDSN	30-Apr-2007	0.0.6
BRAD For GDSN Price Sync Maintenance Release 1	11-Dec-2007	1.0.0
BRAD For GDSN Maintenance Release 4	14-Sept-2009	0.0.3
BRAD For GDSN Maintenance Release 5	16-Nov-2010	0.0.5
BRAD Multiple Expressions of Price	8-Dec-2010	0.0.2
BRAD For GDSN Major Release 3.X	5-Mar-2012	0.0.25

## Document Change History

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22-March-2012	1.3.0	Mark Van Eeghem	Major Release 3 of GDS	See Summary of Changes	N/A

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
4-July-2012	1.3.1	Mark Van Eeghem	Major Release 3 of GDS	See Summary of Changes	N/A
6-Dec-2012	1.3.2	Eric Kauz	Major Release 3 of GDSN	See Summary of Changes	
16-May-2013	1.3.3	Mark Van Eeghem	Major Release 3 of GDSN	See Summary of Changes	
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<u>23-May-2017</u>	<u>1.3.5</u>	<u>Eric Kauz</u>	<u>3.1.3 Release</u>	<u>See Summary of Changes</u>	

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# 1. Business Domain View

## 1.1. Problem Statement / Business Need

Currently there is limited capability for electronically communicating accurate pricing information between trading partners using global standards that

*“accommodates all the different pricing business practices and facilitates an invoice amount equal to the expected payment amount equal to the actual payment”.*

Globally, pricing business practices range from simple pricing and transactional pricing to component based pricing. Component based pricing includes components such as pro-motions, allowances, charges and brackets.

This BMS will also remedy the following issues with the GS1 standards in relation to Price Synchronisation:

When communicating price, partners in some target markets have a need to communicate associated prices together, as a single business unit for example:

- the list price, exclusive taxes
- the transaction price, exclusive of special taxes and VAT

Start Date	Reason	GTIN	Ref ID	Dist Method	Price Type	Value
2009-04-01	Price Increase	GTIN A	123	DSD	List Price	10
					Txn Price 1	11
					Txn Price 2	12

} One Price (bracketed around the first column)  
} One Business Unit (bracketed around the last two columns)  
 \*where Txn Price 1 = Transaction Price with special taxes  
 Txn Price 2 = Transaction Price with special taxes + VAT

## 1.2. Objective

To supply the detail design of the (specific) business transaction needed to meet the requirements of the referenced in the BRAD for Price Multiple Expressions V 0.0.2 and in the BRAD for GDSN Major Release 3.X, building on the existing BMS for GDSN Maintenance Release 2.8.

## 1.3. Audience

The audience would be any participant in the global supply chain engaged in the GDSN. This would include the roles of suppliers (or sellers or data source), source data pools, recipient data pools, retailers (or buyers or data recipient) and other third parties.

## 1.4. References

Reference Name	Description
BRAD Price Synchronisation in the GDSN V 0.0.5	Requirements documentation for applying price synchronisation in the GDSN.
Align – BMS Trading Partner Profile	Approved global standard for price synchronization outside of the GDSN.
Align – BMS Condition Document and Monetary Documents	Approved global standard for price synchronization outside of the GDSN.
BRAD GDSN Price Sync Maintenance Release V 1.0.0	Requirements for maintenance update of Price Synchronisation messages.
BRAD For GDSN Maintenance Release 4	Maintenance Release CRs.
BRAD For Price Multiple Expressions	Requirements documentation for dealing with multiple price.
BRAD For GDSN Major Release 3	Major Release CRs
BMS Shared Common Components Release 3	Documents the data elements that are common in use between GDSN and eCom.

## 1.5. Acknowledgements

The following is a list of individuals (and their companies) who participated in the creation, review and approval of this BMS.

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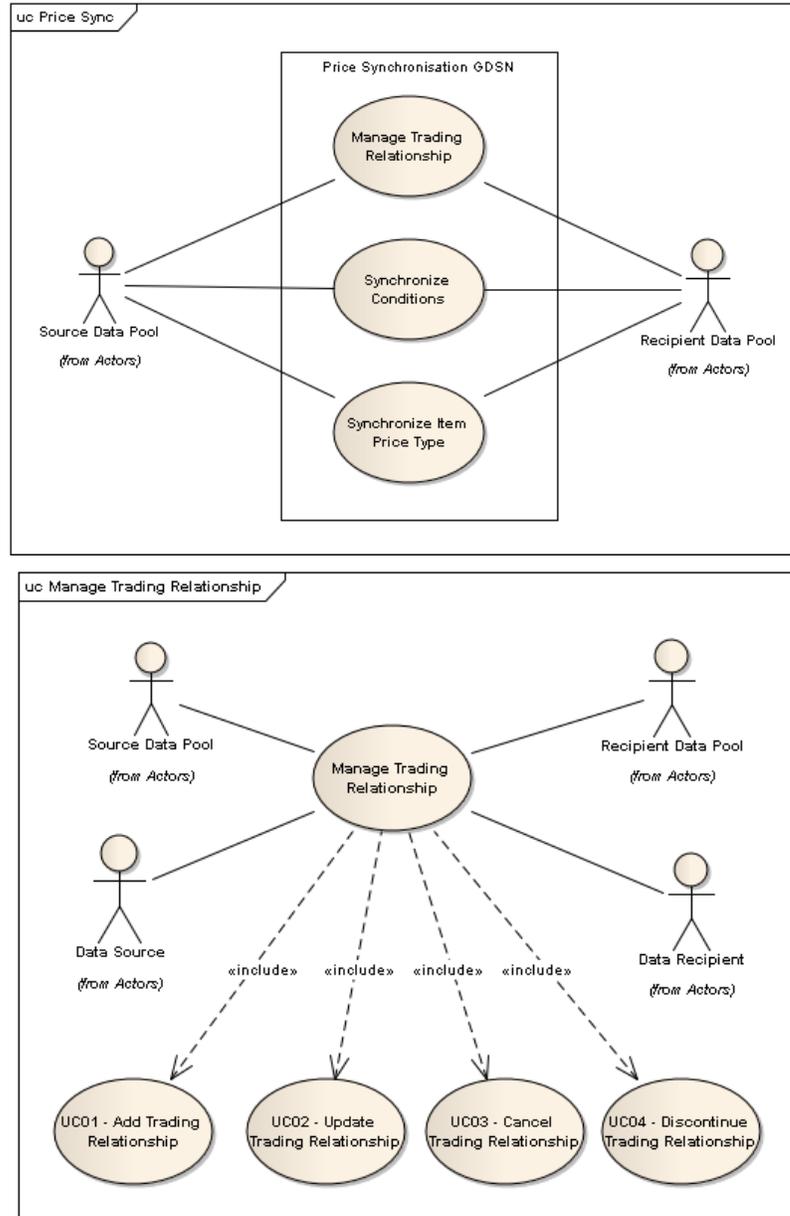
## 2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	GDSN
System Capabilities	GS1
Official Constraints	None

### 3. Business Transaction View

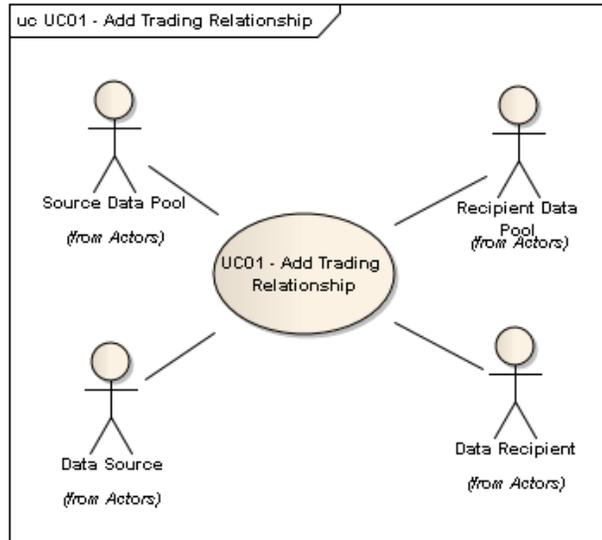
#### 3.1. Use Case Definitions – Add Trading Relationship

Figure 3-1 Use Case Diagram: Price Synchronisation GDSN



## 3.2. Add Trading Relationship

Figure 3-2 Add Trading Relationship Use Case Diagram

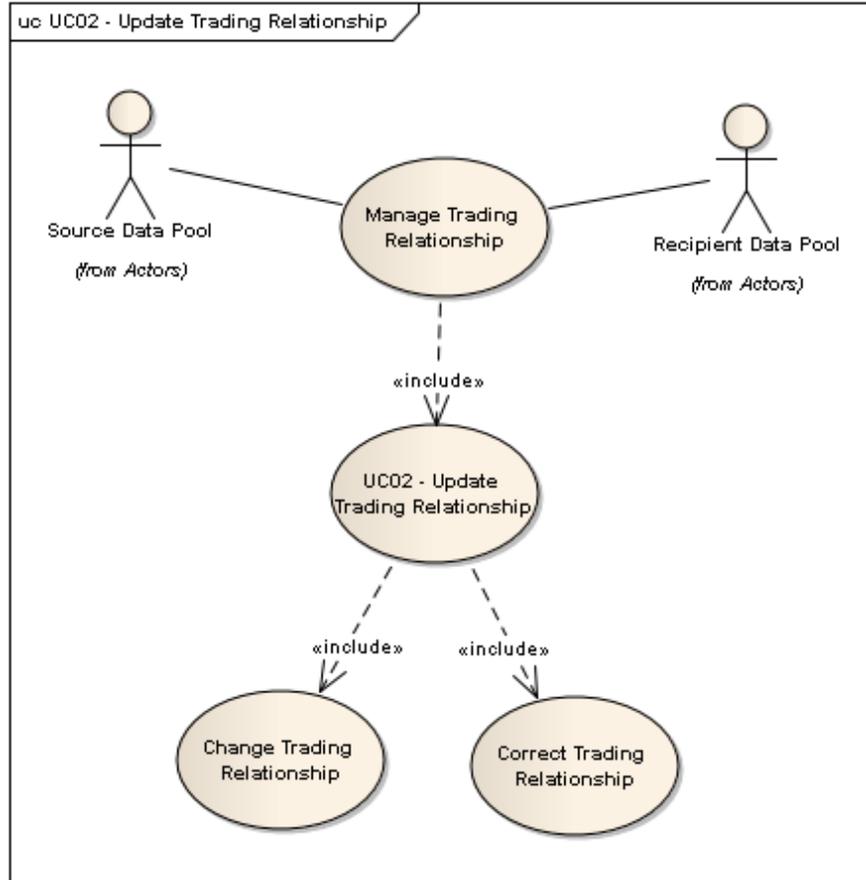


<b>Use Case ID</b>	UC-1																		
<b>Use Case Name</b>	Add Trading Relationship																		
<b>Use Case Description</b>	This use case establishes a price synchronisation trading partner relationship.																		
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient																		
<b>Performance Goals</b>	Initiate a price synchronisation relationship.																		
<b>Preconditions</b>	Trading partners have established a trading partner agreement including price synchronisation relationships, agreed-to pricing conditions; and are engaged in item synchronisation.																		
<b>Post conditions</b>	Price synchronisation relationship is active.																		
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of a new relationship and the SDP creates a price synchronisation list for the relationship. (Done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a relationship by sending a price synchronisation message with a document command of "add" with a relationship segment action code of "add" to the RDP.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Receives price synchronisation message and sends relationship information to data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the trading relationship information and confirms the relationship by responding with an "RECEIVED" response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	SDP	Performs validations.	2	SDP	Creates a relationship by sending a price synchronisation message with a document command of "add" with a relationship segment action code of "add" to the RDP.	3	RDP	Receives price synchronisation message and sends relationship information to data recipient.	4	Data Recipient	Receives the trading relationship information and confirms the relationship by responding with an "RECEIVED" response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.
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5	RDP	Sends the confirmation response message to the SDP.																	

	6	SDP	Updates the price synchronisation list and sends confirmation information to the data source.									
<b>Ends when...</b> data source receives the confirmation response and the pricing synchronisation is active.												
<b>Alternative Scenario</b>	<i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i>											
<table border="1"> <thead> <tr> <th data-bbox="375 411 501 455">Step #</th> <th data-bbox="501 411 755 455">Actor</th> <th data-bbox="755 411 1443 455">Activity Step</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 455 501 611"></td> <td data-bbox="501 455 755 611">All</td> <td data-bbox="755 455 1443 611">The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipient's RDP. To reduce complexity the later is not shown in the activity steps in any scenario.</td> </tr> <tr> <td data-bbox="375 611 501 711">3</td> <td data-bbox="501 611 755 711">Data Recipient</td> <td data-bbox="755 611 1443 711">Data recipient responds with a confirmation status other than RECEIVED or no response is sent by the data recipient. See related rules below for status codes and their actions.</td> </tr> </tbody> </table>				Step #	Actor	Activity Step		All	The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipient's RDP. To reduce complexity the later is not shown in the activity steps in any scenario.	3	Data Recipient	Data recipient responds with a confirmation status other than RECEIVED or no response is sent by the data recipient. See related rules below for status codes and their actions.
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3	Data Recipient	Data recipient responds with a confirmation status other than RECEIVED or no response is sent by the data recipient. See related rules below for status codes and their actions.										
<b>Related Requirements</b>	Not Applicable											
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>Confirmation status codes other than "received" are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system; reject – message received and terms of a specific price message segment were rejected or the data recipient wishes to terminate the price synchronisation relationship.</li> <li>Action codes for the header segment other than initial load are: resend – used to indicate the message is to recover a lost or missing message; restart – used where a data recipient had rejected an item's pricing and wishes to resume synchronisation; and reload – used to "start over" by sending all current and future pricing.</li> <li>A price synchronisation relationship can have only one active relationship segment at a time.</li> <li>If the Document Header is "ADD", the Price Document ID must = "1"</li> <li>When relationship action document header equals "add", there are no dependency checks.</li> <li>The data recipient can override a previous confirmation status with another one through a confirmation response.</li> <li>Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'Received' followed by 'Synchronised'. Exception: a data recipient cannot modify a status of Rejected. A Restart is the only way to re-initiate synchronisation on a Price Type that has been rejected.</li> <li>Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".</li> </ol>											

### 3.3. Update Trading Relationship

Figure 3-3 Update Trading Relationship Use Case Diagram



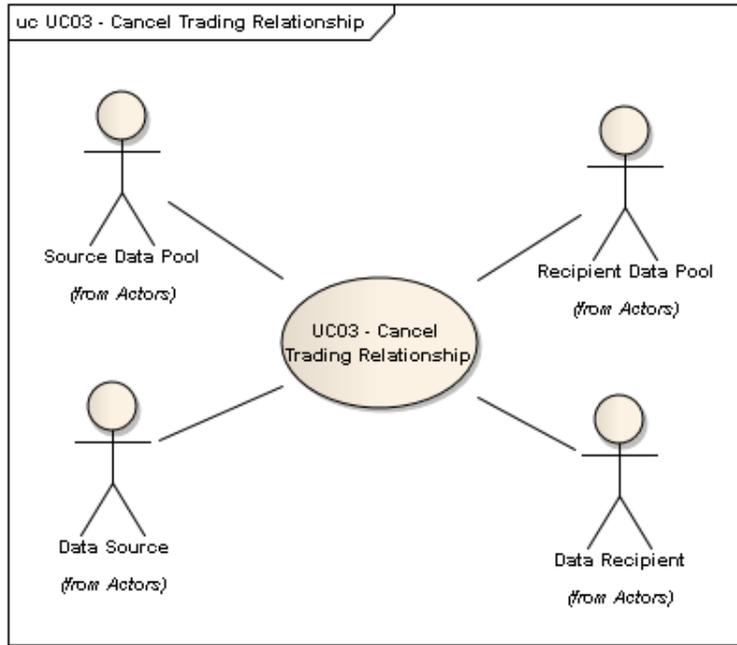
<b>Use Case ID</b>	UC-2
<b>Use Case Name</b>	Update Trading Relationship
<b>Use Case Description</b>	This use case maintains the price synchronisation trading partner relationship through either modifications or corrections to the relationship data.
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
<b>Performance Goals</b>	To update the price synchronisation relationship.
<b>Preconditions</b>	Trading partners have established a trading partner agreement including price synchronisation relationships, agreed-to pricing conditions; and are engaged in item synchronisation. Trading relationship data has been previously received and accepted by the data recipient.
<b>Post conditions</b>	Price synchronisation relationship is updated.

<b>Scenario</b>	<p><b>Begins when...</b>The data source notifies their SDP of updates to a trading relationship (done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1" data-bbox="375 312 1442 846"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Validates trading relationship information.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Updates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "CHANGE_BY_REFRESH" (for a modification) or "Correct" (for a correct) to the RDP.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Receives price synchronisation message and sends relationship information to data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the trading relationship information and confirms the relationship by responding with an "<del>accept</del>RECEIVED" response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> <tr> <td>6</td> <td>SDP</td> <td>Sends confirmation information to the data source.</td> </tr> </tbody> </table> <p><b>Ends when...</b>data source receives the confirmation response.</p>	Step #	Actor	Activity Step	1	SDP	Validates trading relationship information.	2	SDP	Updates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "CHANGE_BY_REFRESH" (for a modification) or "Correct" (for a correct) to the RDP.	3	RDP	Receives price synchronisation message and sends relationship information to data recipient.	4	Data Recipient	Receives the trading relationship information and confirms the relationship by responding with an " <del>accept</del> RECEIVED" response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.	6	SDP	Sends confirmation information to the data source.
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<b>Alternative Scenario</b>	<p><i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i></p> <table border="1" data-bbox="375 993 1442 1293"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td></td> <td>All</td> <td>The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipients RDP. To reduce complexity the later is not shown in the activity steps in any scenario.</td> </tr> <tr> <td>3</td> <td>Data Recipient</td> <td>Data Recipient responds with a confirmation status other than <del>accept</del>RECEIVED. See related requirements below for status codes and their actions.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step		All	The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipients RDP. To reduce complexity the later is not shown in the activity steps in any scenario.	3	Data Recipient	Data Recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.												
Step #	Actor	Activity Step																				
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3	Data Recipient	Data Recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.																				
<b>Related Requirements</b>	Not Applicable																					

<b>Related Rules</b>	<ol style="list-style-type: none"> <li>1. Confirmation status codes other than <del>accept</del>received are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system; reject – message received and terms of a specific price message segment were rejected or the Data Recipient wishes to terminate the price synchronisation relationship.</li> <li>2. A confirmation status of “rejected” results in a data recipient initiated termination of the trading relationship.</li> <li>3. If the Document Header is “CHANGE_BY_REFRESH”, the Price Document ID must be greater than “1”</li> <li>4. When Relationship action equals “CHANGE_BY_REFRESH”, a positive response must be in the sync list for the Relationship segment before any adds/modifies/corrects/deletes to any other segment are sent. Note: a positive response is defined as any confirmation response other than “rejected” or “no response”.</li> <li>5. Relationship Start Effective Date can only be Corrected, not modified.</li> <li>6. The data recipient can override a previous confirmation status with another one through a confirmation response.</li> <li>7. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of ‘Received’ followed by ‘Synchronised’.</li> <li>8. Start Effective Date can be corrected if it is not yet in effect (future date).</li> <li>9. If a revised Start Effective Date is required for a relationship that is not yet in effect, the relationship must be deleted or corrected. If a revised Start Effective Date is required for a relationship that is in effect, then you must set the End Effective Date and send in a new relationship with a new Start Effective Date.</li> <li>10. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”.</li> <li>11. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.</li> </ol>
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### 3.4. Cancel Trading Relationship

Figure 3-4 Cancel Trading Relationship Use Case Diagram

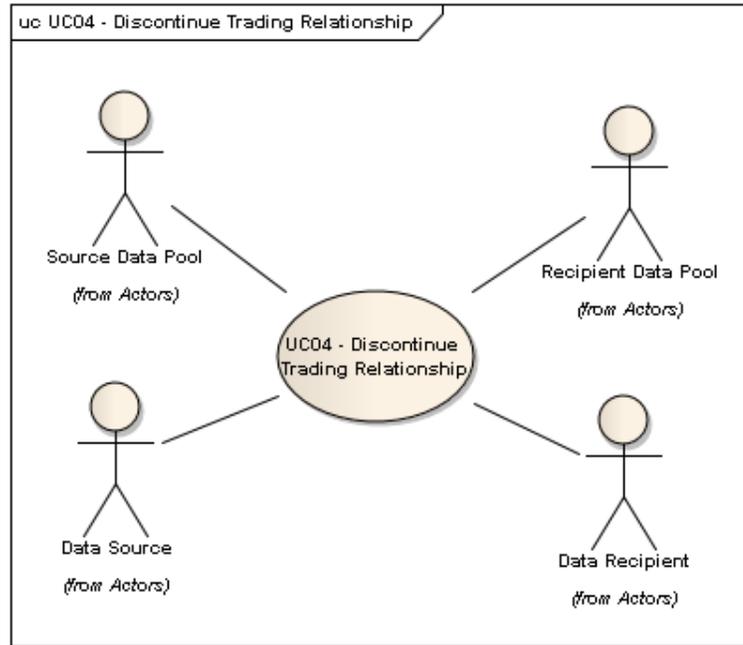


<b>Use Case ID</b>	UC-3												
<b>Use Case Name</b>	Cancel Trading Relationship												
<b>Use Case Description</b>	This use case terminates a specific price synchronisation trading partner relationship that has not yet taken effect.												
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient												
<b>Performance Goals</b>	To terminate a price synchronisation relationship.												
<b>Preconditions</b>	Trading partners have established a trading partner agreement including price synchronisation relationships, agreed-to pricing conditions; and are engaged in item synchronisation. Trading relationship data has been previously received by the data recipient.												
<b>Post conditions</b>	Price synchronisation relationship is terminated.												
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of the need to terminate a trading relationship (done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Terminates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "Delete" to the RDP.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Receives price synchronisation message and sends relationship information to data recipient.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	SDP	Performs validations.	2	SDP	Terminates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "Delete" to the RDP.	3	RDP	Receives price synchronisation message and sends relationship information to data recipient.
Step #	Actor	Activity Step											
1	SDP	Performs validations.											
2	SDP	Terminates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "Delete" to the RDP.											
3	RDP	Receives price synchronisation message and sends relationship information to data recipient.											

	4	Data Recipient	Receives the trading relationship information and confirms the relationship by responding with a <del>an</del> "acceptRECEIVED" response. The confirmation response message is sent to the RDP.								
	5	RDP	Sends the confirmation response message to the SDP.								
	6	SDP	Sends confirmation information to the data source.								
<b>Ends when...</b> data source receives the confirmation response.											
<b>Alternative Scenario</b>	<i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i>										
	<table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td></td> <td>All</td> <td>The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipient's RDP. To reduce complexity the later is not shown in the activity steps in any scenario.</td> </tr> <tr> <td>3</td> <td>Data Recipient</td> <td>Data recipient responds with a confirmation status other than <del>accept</del>RECEIVED. See related requirements below for status codes and their actions.</td> </tr> </tbody> </table>			Step #	Actor	Activity Step		All	The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipient's RDP. To reduce complexity the later is not shown in the activity steps in any scenario.	3	Data Recipient
Step #	Actor	Activity Step									
	All	The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipient's RDP. To reduce complexity the later is not shown in the activity steps in any scenario.									
3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.									
<b>Related Requirements</b>	Not Applicable										
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>Confirmation status codes other than <del>RECEIVED</del>accept are: <del>REVIEW</del>review – message received and no action taken yet; synchronized – message received and implemented into the backend system; <del>REJECTED</del>reject – message received and terms of a specific price message segment were rejected or the data recipient wishes to terminate the price synchronisation relationship.</li> <li>A confirmation status of "REJECTED" is not valid for the End Trading Relationship use case. A confirmation status of "REJECTED" implies that the data recipient initiated the termination of the trading relationship.</li> <li>If the Document Header is "CHANGE_BY_REFRESH", the Price Document ID must be greater than "1"</li> <li>The "Delete" action code implies all data associated with the Relationship ID is no longer valid only for a relationship that has not taken effect. If the relationship is already in effect, the data source must send a Modify transaction (CHANGE_BY_REFRESH) and populate the End Effective Date</li> <li>In order to end a relationship segment, all dependent condition and price type segments need to be deleted/end dated before a delete/end date can be sent for the Relationship Segment.</li> <li>Can only end at a Relationship Segment ID level (i.e. if you have 3 relationship IDs identified for a trading relationship, in order to end the ENTIRE relationship, all 3 relationship IDs must be deleted/end dated).</li> <li>Reason code is conditional on the confirmation status being "<del>REVIEW</del>review". If reason code is present, ensure that confirmation status in "<del>REVIEW</del>review".</li> <li>For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li> </ol>										

### 3.5. Discontinue Trading Relationship

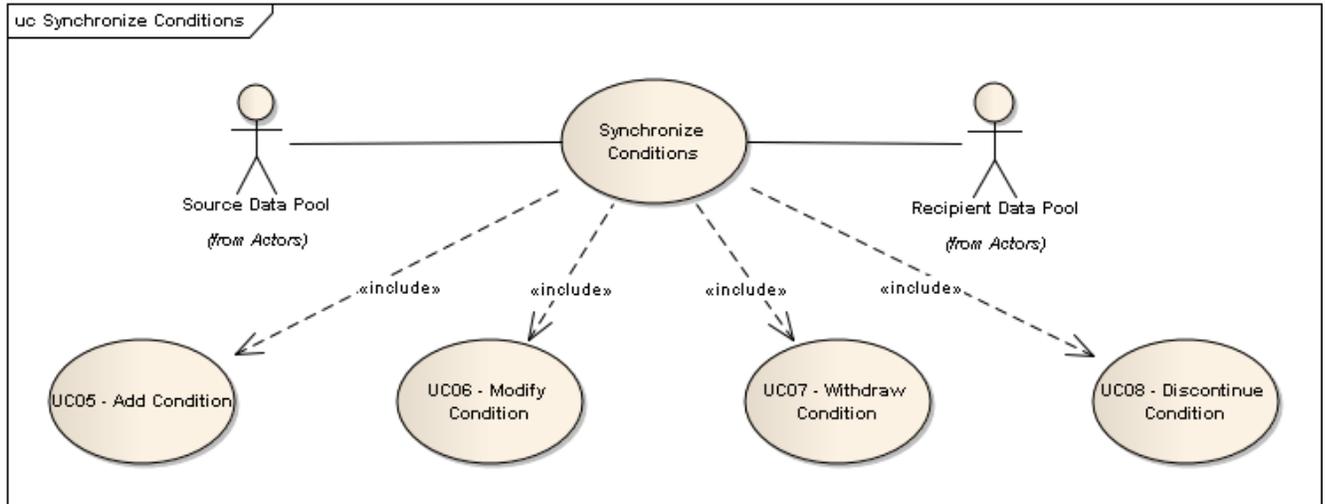
Figure 3-5 Discontinue Trading Relationship Use Case Diagram



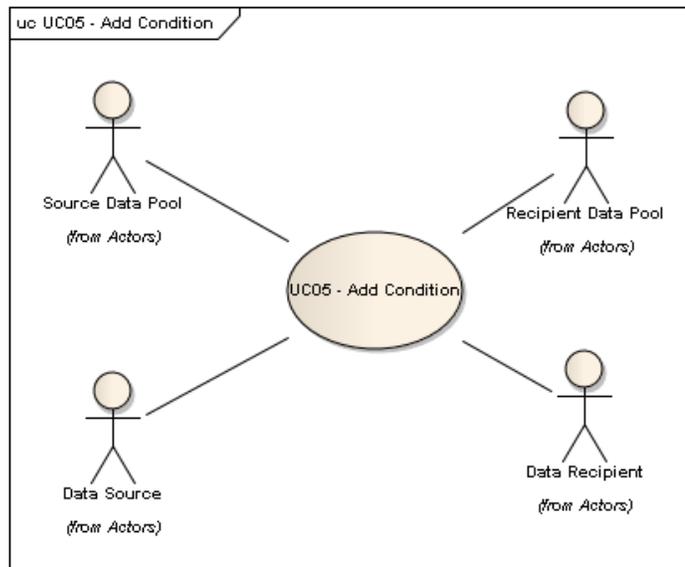
<b>Use Case ID</b>	UC-4										
<b>Use Case Name</b>	Discontinue Trading Relationship										
<b>Use Case Description</b>	This use case terminates a specific price synchronisation trading partner relationship that is currently in effect.										
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient										
<b>Performance Goals</b>	To terminate a price synchronisation relationship.										
<b>Preconditions</b>	Trading partners have established a trading partner agreement including price synchronisation relationships, agreed-to pricing conditions; and are engaged in item synchronisation. Trading relationship data has been previously received by the data recipient. The current date is greater than or equal to the effective date of the relationship.										
<b>Post conditions</b>	Price synchronisation relationship is discontinued.										
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of the need to discontinue a trading relationship (done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Terminates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "CHANGE_BY_REFRESH" to the RDP and a populated relationship end effective date.</td> </tr> </tbody> </table>		Step #	Actor	Activity Step	1	SDP	Performs validations.	2	SDP	Terminates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "CHANGE_BY_REFRESH" to the RDP and a populated relationship end effective date.
Step #	Actor	Activity Step									
1	SDP	Performs validations.									
2	SDP	Terminates the relationship by sending a price synchronisation message with a document command of "CHANGE_BY_REFRESH" with a relationship section action code of "CHANGE_BY_REFRESH" to the RDP and a populated relationship end effective date.									

	3	RDP	Receives price synchronisation message and sends relationship information to data recipient.
	4	Data Recipient	Receives the trading relationship information and confirms the relationship change by responding with a <del>accept</del> <b>RECEIVED</b> response. The confirmation response message is sent to the RDP.
	5	RDP	Sends the confirmation response message to the SDP.
	6	SDP	Sends confirmation information to the data source.
<b>Ends when...</b> data source receives the confirmation response.			
<b>Alternative Scenario</b>	<i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i>		
	<b>Step #</b>	<b>Actor</b>	<b>Activity Step</b>
		All	The scenario shows the most anticipated choreography where the SDP sends to the RDP; but the SDP may send directly to the data recipient in situations where the SDP is also the data recipient's RDP. To reduce complexity the later is not shown in the activity steps in any scenario.
	3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> <b>RECEIVED</b> . See related requirements below for status codes and their actions.
<b>Related Requirements</b>	Not Applicable		
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>Confirmation status codes other than <del>RECEIVED</del><b>accept</b> are: <del>review</del><b>REVIEW</b> – message received and no action taken yet; synchronized – message received and implemented into the backend system; <del>REJECTED</del><b>reject</b> – message received and terms of a specific price message segment were rejected or the data recipient wishes to terminate the price synchronisation relationship.</li> <li>A confirmation status of "REJECTED" is not valid for the End Trading Relationship use case. A confirmation status of "REJECTED" implies that the data recipient initiated the termination of the trading relationship.</li> <li>If the Document Header is "CHANGE_BY_REFRESH", the Price Document ID must be greater than "1"</li> <li>The "Delete" action code implies all data associated with the Relationship ID is no longer valid only for a relationship that has not taken effect. If the relationship is already in effect, the data source must send a Modify transaction (CHANGE_BY_REFRESH) and populate the End Effective Date.</li> <li>In order to end a relationship segment, all dependent condition and price type segments need to be deleted/end dated before a delete/end date can be sent for the Relationship Segment.</li> <li>Can only end at a Relationship Segment ID level (i.e. if you have 3 relationship IDs identified for a trading relationship, in order to end the ENTIRE relationship, all 3 relationship IDs must be deleted/end dated).</li> <li>Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".</li> <li>For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li> </ol>		

### 3.6. Synchronise Conditions



### 3.7. Add Condition

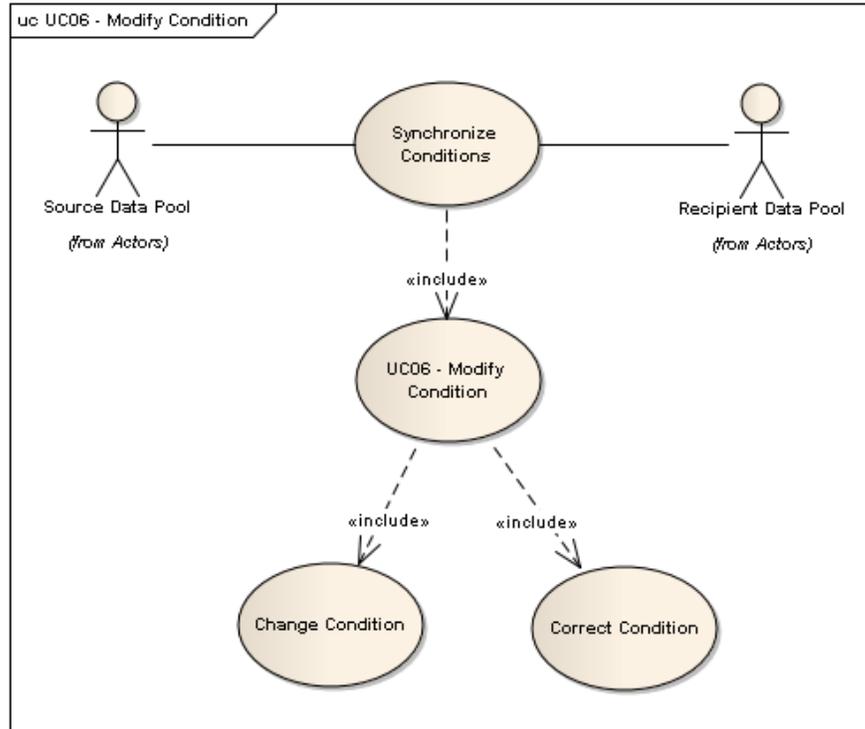


<b>Use Case ID</b>	UC-5
<b>Use Case Name</b>	Add Condition
<b>Use Case Description</b>	This use case establishes non-line item conditions and summary conditions.
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
<b>Performance Goals</b>	Establish conditions for price synchronisation.
<b>Preconditions</b>	Price synchronisation relationship has been established and price synchronisation is active.
<b>Post conditions</b>	Conditions are synchronized.

<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of price components to be added for a relationship (done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1" data-bbox="373 315 1442 871"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" (if the trading relationship has already been established) and the condition segment with a segment action code of "add" to the RDP, indicates the condition types and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the message and confirms the conditions by responding with an "<del>accept</del>RECEIVED" confirmation response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> <tr> <td>6</td> <td>SDP</td> <td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td> </tr> </tbody> </table> <p><b>Ends when...</b> conditions and bracket qualifiers (as needed) have been synchronized.</p>	Step #	Actor	Activity Step	1	SDP	Performs validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" (if the trading relationship has already been established) and the condition segment with a segment action code of "add" to the RDP, indicates the condition types and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.	4	Data Recipient	Receives the message and confirms the conditions by responding with an " <del>accept</del> RECEIVED" confirmation response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.
Step #	Actor	Activity Step																				
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3	RDP	Sends the price message to the data recipient.																				
4	Data Recipient	Receives the message and confirms the conditions by responding with an " <del>accept</del> RECEIVED" confirmation response. The confirmation response message is sent to the RDP.																				
5	RDP	Sends the confirmation response message to the SDP.																				
6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.																				
<b>Alternative Scenario</b>	<p><i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i></p> <table border="1" data-bbox="373 1018 1442 1165"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>Data Recipient</td> <td>Data recipient responds with a confirmation status other than <del>accept</del>RECEIVED. See related requirements below for status codes and their actions.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.															
Step #	Actor	Activity Step																				
3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.																				
<b>Related Requirements</b>	Not Applicable																					
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>1. When condition type equals bracket the bracket sub-section is used to identify the bracket qualifiers.</li> <li>2. Header segment is mandatory and must be sent with this message.</li> <li>3. In the condition segment, confirmations apply to the condition type and apply to all Catalogue Items or EANUCC Classification Category Codes in their respective lists.</li> <li>4. If there has been no response to relationship segment, the condition segment is still sent to the data recipient.</li> <li>5. Cannot send condition if relationship has been rejected.</li> <li>6. If the Condition Segment is sent in the first price message establishing the trading relationship, the Document Header Command = ADD.</li> <li>7. If the Condition Segment is sent after establishing the trading relationship, the Document Header Command = CHANGE_BY_REFRESH.</li> <li>8. If Document Header Command = ADD, then Price Document ID must = "1".</li> <li>9. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>10. Confirmation status codes other than <del>RECEIVED</del>accept are: <del>REVIEW</del>review – message received and no action taken yet; <del>SYNCHRONISED</del>synchronized – message received and implemented into the backend system. If no response is made the SDP will stop price synchronisation.</li> <li>11. Confirmation Statuses (assumes one response per condition)                         <ul style="list-style-type: none"> <li>• Received</li> <li>• Review</li> </ul> </li> </ol>																					

- Synchronised
  - No Response- no further price synchronisation may occur
    - For the specified condition ID
    - Nor any price type referring to that condition ID
12. To depict a line item allowance in the condition the Catalogue Items(s) or Global Product Classification “brick” code(s) must be specified in the condition segment.
  13. The data recipient can override a previous confirmation status with another one through a confirmation response.
  14. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of ‘Received’ followed by ‘Synchronised’.
  15. A confirmation Status of Rejected is not valid for conditions.
  16. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”.

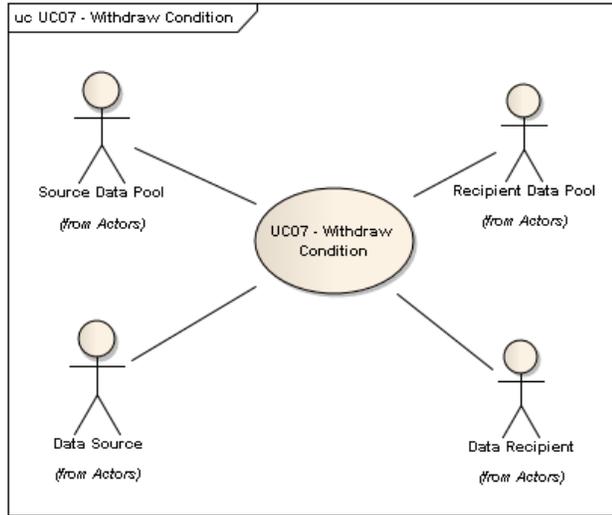
### 3.8. Modify Condition



<b>Use Case ID</b>	UC-6												
<b>Use Case Name</b>	Modify Condition												
<b>Use Case Description</b>	This use case modifies or corrects an existing non-line item conditions and summary conditions.												
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient												
<b>Performance Goals</b>	Change by refresh or correct conditions for price synchronisation.												
<b>Preconditions</b>	Price synchronisation relationship exists and price component has been accepted by data source.												
<b>Post conditions</b>	Condition has been modified.												
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of modifications to item depictions and/or any related price types. (Done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs necessary validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the condition segment with a segment action code of "CHANGE_BY_REFRESH" for a modification or "Correct" for a correct to the RDP, indicates the condition types and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	SDP	Performs necessary validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the condition segment with a segment action code of "CHANGE_BY_REFRESH" for a modification or "Correct" for a correct to the RDP, indicates the condition types and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.
Step #	Actor	Activity Step											
1	SDP	Performs necessary validations.											
2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the condition segment with a segment action code of "CHANGE_BY_REFRESH" for a modification or "Correct" for a correct to the RDP, indicates the condition types and updates the price synchronisation list.											
3	RDP	Sends the price message to the data recipient.											

	4	Data Recipient	Receives the message and confirms the conditions by responding with an <del>Accept</del> <b>RECEIVED</b> confirmation response. The confirmation response message is sent to the RDP.						
	5	RDP	Sends the confirmation response message to the SDP.						
	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.						
<b>Ends when...</b> conditions and bracket qualifiers (as needed) have been modified.									
<b>Alternative Scenario</b>	<i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i>								
	<table border="1"> <thead> <tr> <th data-bbox="375 583 501 625">Step #</th> <th data-bbox="501 583 753 625">Actor</th> <th data-bbox="753 583 1443 625">Activity Step</th> </tr> </thead> <tbody> <tr> <td data-bbox="375 625 501 730">3</td> <td data-bbox="501 625 753 730">Data Recipient</td> <td data-bbox="753 625 1443 730">Data recipient responds with a confirmation status other than <del>accept</del> <b>RECEIVED</b>. See related requirements below for status codes and their actions.</td> </tr> </tbody> </table>			Step #	Actor	Activity Step	3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> <b>RECEIVED</b> . See related requirements below for status codes and their actions.
Step #	Actor	Activity Step							
3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> <b>RECEIVED</b> . See related requirements below for status codes and their actions.							
<b>Related Requirements</b>	Not Applicable								
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>1. When condition type equals bracket the bracket sub-section is used to identify the bracket qualifiers.</li> <li>2. Header segment is mandatory and must be sent with this message.</li> <li>3. In the condition segment, confirmations apply to the condition type and apply to all Catalogue Items or EANUCC Classification Category Codes in their respective lists.</li> <li>4. If there has been no response to relationship segment, the condition segment is still sent to the data recipient.</li> <li>5. Cannot send condition if relationship has been rejected.</li> <li>6. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>7. Confirmation status codes other than <del>RECEIVED</del><del>accept</del> are: <del>REVIEW</del><del>review</del> – message received and no action taken yet; <del>SYNCHRONISED</del><del>synchronized</del> – message received and implemented into the backend system.</li> <li>8. If no response is made the SDP will stop price synchronisation.</li> <li>9. Condition Value Type cannot be modified.</li> <li>10. Start Effective Date cannot be modified.</li> <li>11. Start Effective Date can be corrected if it is not yet in effect (future date).</li> <li>12. If a revised Start Effective Date is required for a condition that is not yet in effect, the condition must be deleted or corrected. If a revised Start Effective Date is required for a condition that is in effect, then you must set the End Effective Date and send in a new condition with a new Start Effective Date.</li> <li>13. The data recipient can override a previous confirmation status with another one through a confirmation response.</li> <li>14. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'Received' followed by 'Synchronised'.</li> <li>15. Can't send an update for a segment if the previous add/change by refresh/correct has had no response or has been rejected.</li> <li>16. A confirmation Status of Rejected is not valid for conditions.</li> <li>17. Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".</li> <li>18. For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li> </ol>								

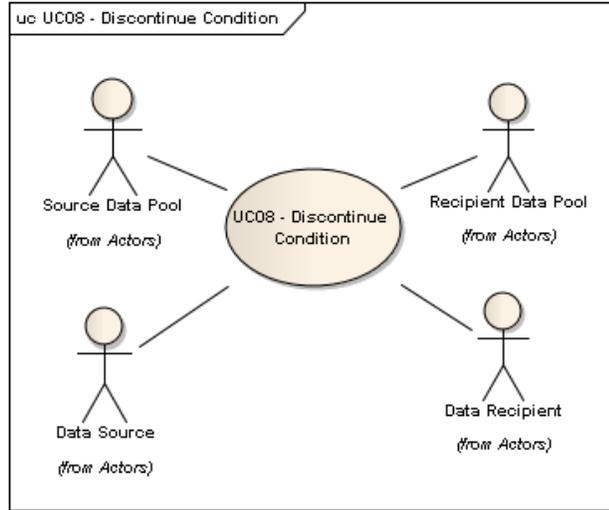
### 3.9. Withdraw Condition



<b>Use Case ID</b>	UC-7																					
<b>Use Case Name</b>	Withdraw Condition																					
<b>Use Case Description</b>	This use case deletes an existing non-line item conditions and/or summary conditions prior to the effective start date of the condition.																					
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient																					
<b>Performance Goals</b>	Withdraw a condition for price synchronisation.																					
<b>Preconditions</b>	Price synchronisation relationship exists and price component has been accepted by data source.																					
<b>Post conditions</b>	Condition has been withdrawn.																					
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of a need to withdraw a price component (done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs necessary validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the condition segment with a segment action code of "Delete" to the RDP, indicates the condition types and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the message and confirms the conditions by responding with an "<del>accept</del>RECEIVED" confirmation response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> <tr> <td>6</td> <td>SDP</td> <td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	SDP	Performs necessary validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the condition segment with a segment action code of "Delete" to the RDP, indicates the condition types and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.	4	Data Recipient	Receives the message and confirms the conditions by responding with an " <del>accept</del> RECEIVED" confirmation response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.
Step #	Actor	Activity Step																				
1	SDP	Performs necessary validations.																				
2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the condition segment with a segment action code of "Delete" to the RDP, indicates the condition types and updates the price synchronisation list.																				
3	RDP	Sends the price message to the data recipient.																				
4	Data Recipient	Receives the message and confirms the conditions by responding with an " <del>accept</del> RECEIVED" confirmation response. The confirmation response message is sent to the RDP.																				
5	RDP	Sends the confirmation response message to the SDP.																				
6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.																				

	<p><b>Ends when...</b> conditions and bracket qualifiers (as needed) have been withdrawn.</p>						
<p><b>Alternative Scenario</b></p>	<p><i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i></p> <table border="1" data-bbox="373 346 1437 493"> <thead> <tr> <th data-bbox="373 346 500 394">Step #</th> <th data-bbox="500 346 751 394">Actor</th> <th data-bbox="751 346 1437 394">Activity Step</th> </tr> </thead> <tbody> <tr> <td data-bbox="373 394 500 493">3</td> <td data-bbox="500 394 751 493">Data Recipient</td> <td data-bbox="751 394 1437 493">Data recipient responds with a confirmation status other than <del>accept</del>RECEIVED. See related requirements below for status codes and their actions.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.
Step #	Actor	Activity Step					
3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.					
<p><b>Related Requirements</b></p>	<p>Not Applicable</p>						
<p><b>Related Rules</b></p>	<ol style="list-style-type: none"> <li>1. Header segment is mandatory and must be sent with this message.</li> <li>2. In the condition segment, confirmations apply to the condition type and apply to all Catalogue Items or EANUCC Classification Category Codes in their respective lists.</li> <li>3. If there has been no response to relationship segment, the condition segment is still sent to the data recipient.</li> <li>4. Cannot send condition if relationship has been rejected.</li> <li>5. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>6. A confirmation status of "REJECTED" is not valid for a withdraw.</li> <li>7. No response means that no further synchronisation can occur.</li> <li>8. The data recipient can override a previous confirmation status with another one through a confirmation response.</li> <li>9. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'Received' followed by 'Synchronised'.</li> <li>10. Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".</li> <li>11. For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li> </ol>						

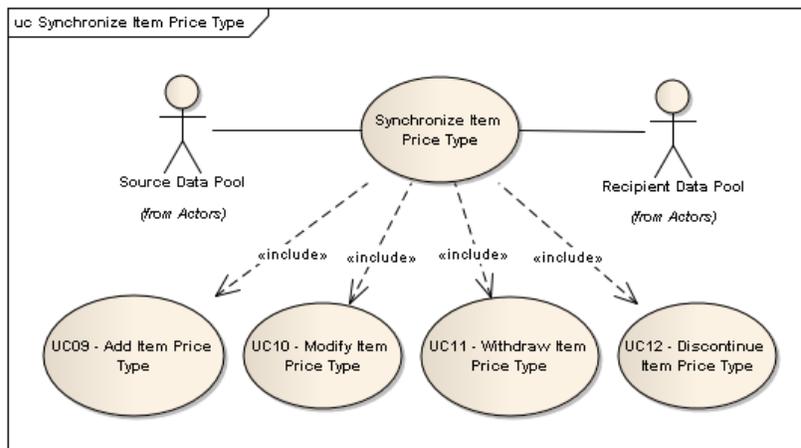
### 3.10. Discontinue a Condition



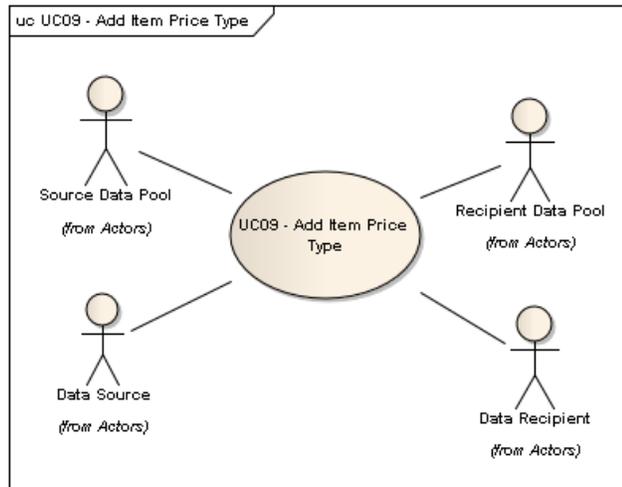
<b>Use Case ID</b>	UC-8																		
<b>Use Case Name</b>	Discontinue a Condition																		
<b>Use Case Description</b>	This use case discontinues an existing non-line item conditions and/or summary conditions that are already in effect.																		
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient																		
<b>Performance Goals</b>	Discontinues a condition for price synchronisation.																		
<b>Preconditions</b>	Price synchronisation relationship exists and price component has been accepted by data source.																		
<b>Post conditions</b>	Condition has been discontinue.																		
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of a need to discontinue a price component. (Done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs necessary validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH", the condition segment with a segment action code of "CHANGE_BY_REFRESH" and an updated Condition End Effective Date to the RDP, indicates the condition types and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the message and confirms the conditions by responding with an <b>acceptRECEIVED</b> confirmation response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	SDP	Performs necessary validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH", the condition segment with a segment action code of "CHANGE_BY_REFRESH" and an updated Condition End Effective Date to the RDP, indicates the condition types and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.	4	Data Recipient	Receives the message and confirms the conditions by responding with an <b>acceptRECEIVED</b> confirmation response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.
Step #	Actor	Activity Step																	
1	SDP	Performs necessary validations.																	
2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH", the condition segment with a segment action code of "CHANGE_BY_REFRESH" and an updated Condition End Effective Date to the RDP, indicates the condition types and updates the price synchronisation list.																	
3	RDP	Sends the price message to the data recipient.																	
4	Data Recipient	Receives the message and confirms the conditions by responding with an <b>acceptRECEIVED</b> confirmation response. The confirmation response message is sent to the RDP.																	
5	RDP	Sends the confirmation response message to the SDP.																	

	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.
<b>Ends when...</b> conditions and bracket qualifiers (as needed) have been discontinued.			
<b>Alternative Scenario</b>	<i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i>		
	<b>Step #</b>	<b>Actor</b>	<b>Activity Step</b>
	3	Data Recipient	Data recipient responds with a confirmation status other than <b>RECEIVEDaccept</b> . See related requirements below for status codes and their actions.
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>Header segment is mandatory and must be sent with this message.</li> <li>In the condition segment, confirmations apply to the condition type and apply to all Catalogue Items or EANUCC Classification Category Codes in their respective lists.</li> <li>If there has been no response to relationship segment, the condition segment is still sent to the data recipient.</li> <li>Cannot send condition if relationship has been rejected.</li> <li>If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>No response means that no further synchronisation can occur.</li> <li>The data recipient can override a previous confirmation status with another one through a confirmation response.</li> <li>Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'Received' followed by 'Synchronised'.</li> <li>Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".</li> <li>For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li> </ol>		

### 3.11. Synchronise Price Type



### 3.12. Add Item Price Type



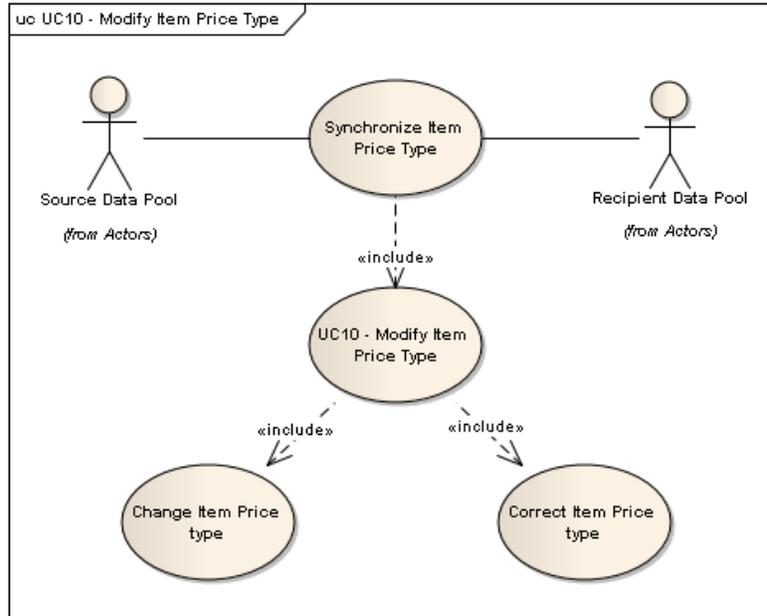
<b>Use Case ID</b>	UC-9																					
<b>Use Case Name</b>	Add Item Price Type																					
<b>Use Case Description</b>	This use case establishes an item depiction and any related price types.																					
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient																					
<b>Performance Goals</b>	Establish an item depiction and all related price types for price synchronisation.																					
<b>Preconditions</b>	Price synchronisation relationship has been established and price synchronisation is active.																					
<b>Post conditions</b>	Item Depictions and related price types are synchronized.																					
<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of new price types that they want to be synchronised with a trading partner. (Done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs necessary validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" (if the trading relationship has already been established) and the item depiction and price type segments with a segment action code of "add" to the RDP and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the message and confirms the item depiction and price type segments by responding with an "acceptRECEIVED" confirmation response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> <tr> <td>6</td> <td>SDP</td> <td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	1	SDP	Performs necessary validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" (if the trading relationship has already been established) and the item depiction and price type segments with a segment action code of "add" to the RDP and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.	4	Data Recipient	Receives the message and confirms the item depiction and price type segments by responding with an "acceptRECEIVED" confirmation response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.
Step #	Actor	Activity Step																				
1	SDP	Performs necessary validations.																				
2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" (if the trading relationship has already been established) and the item depiction and price type segments with a segment action code of "add" to the RDP and updates the price synchronisation list.																				
3	RDP	Sends the price message to the data recipient.																				
4	Data Recipient	Receives the message and confirms the item depiction and price type segments by responding with an "acceptRECEIVED" confirmation response. The confirmation response message is sent to the RDP.																				
5	RDP	Sends the confirmation response message to the SDP.																				
6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.																				

	<p><b>Ends when...</b> item Depictions and related price types have been synchronized.</p>						
<p><b>Alternative Scenario</b></p>	<p><i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i></p> <table border="1" data-bbox="370 384 1433 531"> <thead> <tr> <th data-bbox="370 384 500 432">Step #</th> <th data-bbox="500 384 751 432">Actor</th> <th data-bbox="751 384 1433 432">Activity Step</th> </tr> </thead> <tbody> <tr> <td data-bbox="370 432 500 531">3</td> <td data-bbox="500 432 751 531">Data Recipient</td> <td data-bbox="751 432 1433 531">Data recipient responds with a confirmation status other than <del>accept</del>RECEIVED. See related requirements below for status codes and their actions.</td> </tr> </tbody> </table>	Step #	Actor	Activity Step	3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.
Step #	Actor	Activity Step					
3	Data Recipient	Data recipient responds with a confirmation status other than <del>accept</del> RECEIVED. See related requirements below for status codes and their actions.					
<p><b>Related Requirements</b></p>	<p>Not Applicable</p>						
<p><b>Related Rules</b></p>	<ol style="list-style-type: none"> <li>1. The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.</li> <li>2. Header segment is mandatory and must be sent with this message.</li> <li>3. Relationship Segment and Condition Segment is not needed in a price synchronisation message to send Item Depiction and Price Type.</li> <li>4. Cannot send Item Depiction and Price Type if the Trading Relationship has been rejected.</li> <li>5. A targeted condition in the Item Price Type must have a prior confirmation status of <del>RECEIVED</del>accept, synchronize or review except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.</li> <li>6. A targeted price type in the Item Price Type segment must have a prior confirmation status of <del>RECEIVED</del>accept, <del>SYNCHRONISED</del>synchronize or <del>review</del>REVIEW except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.</li> <li>7. Multiple Price Types may exist simultaneously for a Catalogue Item and each can have their own confirmation status</li> <li>8. Bracket Qualifiers for a Price Type can be sent providing that the brackets have not been sent as standard brackets in the condition segment.</li> <li>9. If Document Header Command = ADD, then Price Document ID must = "1".</li> <li>10. Confirmation status codes other than <del>RECEIVED</del>accept are: <del>REVIEW</del>review – message received and no action taken yet; <del>SYNCHRONISED</del>synchronized – message received and implemented into the backend system; reject – message received and the data recipient does not wish to receive the price information for the given GTIN. If no response is made the SDP will stop price synchronisation.</li> <li>11. No Response stops further synchronisation of only the specific Price types for which the confirmation status is "No response"</li> <li>12. A confirmation status of "Rejected" stops further synchronisation of all Price Types for the associated trade item. This rule is not valid for the Restart Process which has different functionality around the Rejected Status (see Implementation Considerations).</li> <li>13. If the Ship To or Ship From Business Location attributes are populated with more than one value (a list), the data recipient may only accept or reject all, not individually by Business Location</li> <li>14. Condition segment is not required.</li> <li>15. Relationship segment is not required.</li> <li>16. At least one Item Price Segment is mandatory if the Item Depiction qualifier has been populated.</li> <li>17. Can only populate Target Price type if "Price Type" is equal to "Allowance" or "Charge" or "Promotional Price" or any of the "Transactional Price Types."</li> <li>18. If the Target Price Type is not populated, the allowance/charge is tied to the catalogue item itself; regardless of the base price it is using (i.e. will span all base price brackets).</li> <li>19. Data recipients cannot accept or reject individual brackets qualifiers.</li> <li>20. When an Item Price Type refers to a condition: The Condition Type must be of type "Bracket"</li> </ol>						

The Item Price segment must only be of Price type "Bracket".

21. The data recipient can override a previous confirmation status with another one through a confirmation response. Exception: cannot do this with a Price Type that has been rejected.
22. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'Received' followed by 'Synchronised'. Exception: a data recipient cannot modify a status of Rejected. A Restart is the only way to re-initiate synchronisation on a Price Type that has been rejected.
23. Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".
24. For the Price Synchronisation Message, the Segment Action Code of "CHANGE\_BY\_REFRESH" assumes full refresh of the message segment only.  
Any rejection of a targeted price type would result in the rejection of the targeting price type.

### 3.13. Modify Item Price Type

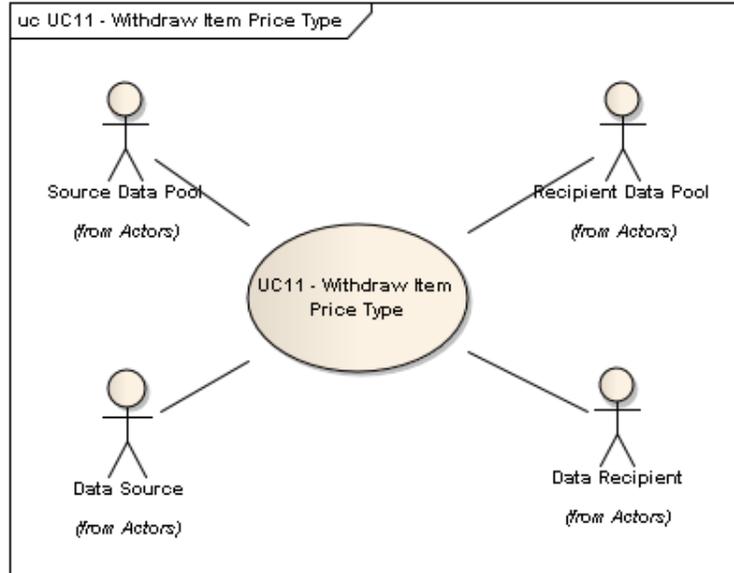


<b>Use Case ID</b>	UC-10
<b>Use Case Name</b>	Modify Item Price Type
<b>Use Case Description</b>	This use case modifies or corrects existing item depictions and/or any related price types.
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
<b>Performance Goals</b>	Change by refresh or correct item depictions and/or any related price types used for price synchronisation.
<b>Preconditions</b>	Price synchronisation relationship exists and item depictions and/or any related price types have been accepted by data source.
<b>Post conditions</b>	Item depictions and/or any related price types have been modified.

<b>Scenario</b>	<b>Begins when...</b> The data source notifies their SDP of modifications to price components (done outside of the network).	
	<b>Continues with...</b>	
	<b>Step #</b>	<b>Actor</b>
	1	SDP
	2	SDP
	3	RDP
	4	Data Recipient
	<b>Activity Step</b>	
	Performs necessary validations.	
	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the item depiction and price type segments with a segment action code of "CHANGE_BY_REFRESH" for modification and "Correct" for a correction to the RDP and updates the price synchronisation list.	
	Sends the price message to the data recipient.	
	Receives the message and confirms the item depiction and price type segments by responding with a <del>accept</del> "RECEIVED" confirmation response. The confirmation response message is sent to the RDP.	
	Sends the confirmation response message to the SDP.	
	Updates the price synchronisation list and sends the confirmation response message to the data source.	
<b>Ends when...</b> the item depiction and price type segments have been modified.		
<b>Alternative Scenario</b>	<i>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps</i>	
	<b>Step #</b>	<b>Actor</b>
	3	Data Recipient
		<b>Activity Step</b>
		Data recipient responds with a confirmation status other than <del>accept</del> "RECEIVED". See related requirements below for status codes and their actions.
<b>Related Requirements</b>	Not Applicable	
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>Header segment is mandatory and must be sent with this message.</li> <li>If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>Confirmation status codes other than <del>RECEIVED</del>accept are: <del>REVIEW</del>review – message received and no action taken yet; <del>SYNCHRONISED</del>synchronized – message received and implemented into the backend system; reject – message received and the data recipient does not wish to receive the price information for the given GTIN. If no response is made the SDP will stop price synchronisation. Can only send a reject if related to a specific catalogue item. This is used in the event that the data recipient does not wish to synchronise pricing for the indicated catalogue item.</li> <li>Start Effective Date cannot be modified.</li> <li>Start Effective Date can be corrected if it is not yet in effect (future date).</li> <li>Cannot send Item Depiction and Price Type if the Trading Relationship has been rejected.</li> <li>A targeted condition in the Item Price Type must have a prior confirmation status of <del>RECEIVED</del>accept, <del>SYNCHRONISED</del>synchronize or <del>REVIEW</del>review except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.</li> <li>A targeted price type in the Item Price Type segment must have a prior confirmation status of <del>RECEIVED</del>accept, <del>SYNCHRONISED</del>synchronize or <del>review</del>REVIEW except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.</li> </ol>	

9. Multiple Item price types may exist simultaneously for a Catalogue Item and each can have their own confirmation status
10. Bracket Qualifiers for a Price Type can be sent providing that the brackets have not been sent as standard brackets in the condition segment.
11. No Response stops further synchronisation of only the specific price types for which the confirmation status is "No response".
12. A confirmation status of "Rejected" stops further synchronisation of all Price Types for the associated trade item. This rule is not valid for the Restart Process which has different functionality around the Rejected Status (see Implementation Considerations).
13. If the Ship To or Ship From Business Location attributes are populated with more than one value (a list), the data recipient may only accept or reject all, not individually by Business Location
14. Condition segment is not required.
15. Relationship segment is not required.
16. The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.
17. Can only populate Target Price type if "Price Type" is equal to "Allowance" or "Charge" or "Promotional Price" or any of the "Transactional Price Types."
18. If the target item price type is not populated, the allowance/charge is tied to the catalogue item itself; regardless of the base price it is using (i.e. will span all base price brackets).
19. Data recipients cannot accept or reject individual brackets qualifiers.
20. When an Item Price Type refers to a condition:  
The Condition Type must be of type "Bracket"  
The Item Price segment must only be of Price type "Bracket".
21. The data recipient can override a previous confirmation status with another one through a confirmation response. Exception: cannot do this with a Price Type that has been rejected.
22. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'RECEIVED' followed by 'SYNCHRONISED'. Exception: a data recipient cannot modify a status of REJECTED. A Restart is the only way to re-initiate synchronisation on a Price Type that has been rejected.
23. Can't send an update for a segment if the previous add/change by refresh/correct has had no response or has been rejected.
24. If a revised Start Effective Date is required for a price type that is not yet in effect, the price type must be deleted or corrected. If a revised Start Effective Date is required for a price type that is in effect, then you must set the End Effective Date and send in a new price type with a new Start Effective Date.
25. Reason code is conditional on the confirmation status being "REVIEW". If reason code is present, ensure that confirmation status in "REVIEW".
26. For the Price Synchronisation Message, the Segment Action Code of "CHANGE\_BY\_REFRESH" assumes full refresh of the message segment only.
27. Any rejection of a targeted price type would result in the rejection of the targeting price type.

### 3.14. Withdraw Item Price Type

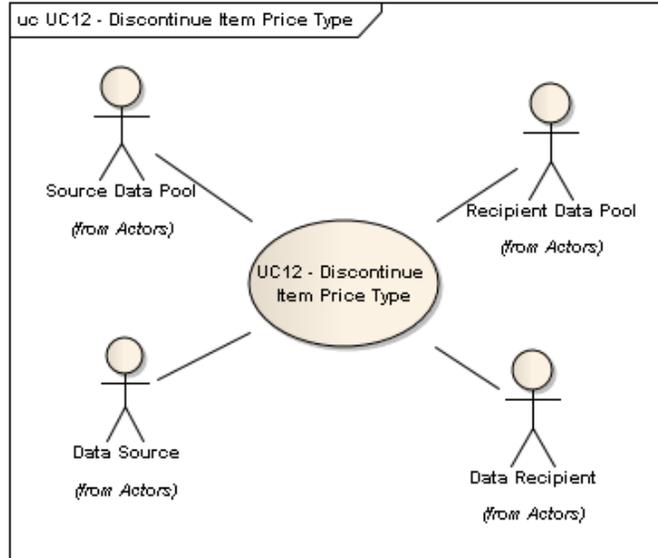


<b>Use Case ID</b>	UC-11
<b>Use Case Name</b>	Withdraw Item Price Type
<b>Use Case Description</b>	This use case deletes existing item depictions and/or any related price types prior to the effective start date of the price type.
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
<b>Performance Goals</b>	Withdraw existing item depictions and/or any related price types that are not in effect.
<b>Preconditions</b>	Price synchronisation relationship exists and item depictions and/or any related price types have been accepted by data source.
<b>Post conditions</b>	Item depictions and/or any related price types have been withdrawn.

<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of a need to withdraw item depictions and/or any related price types. (Done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1" data-bbox="373 315 1437 840"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs necessary validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the item depiction and price type segments with a segment action code "Delete" and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the message and confirms the withdrawal of the item depiction and price type segments by responding with an "AcceptRECEIVED" confirmation response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> <tr> <td>6</td> <td>SDP</td> <td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td> </tr> </tbody> </table> <p><b>Ends when...</b> item depictions and/or any related price types have been withdrawn.</p>	Step #	Actor	Activity Step	1	SDP	Performs necessary validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the item depiction and price type segments with a segment action code "Delete" and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.	4	Data Recipient	Receives the message and confirms the withdrawal of the item depiction and price type segments by responding with an "AcceptRECEIVED" confirmation response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.
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<b>Related Requirements</b>	Not Applicable																					
<b>Related Rules</b>	<ol style="list-style-type: none"> <li>1. Header segment is mandatory and must be sent with this message.</li> <li>2. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>3. A confirmation status of "REJECTED" is not valid for a withdrawal of a Price Type.</li> <li>4. A confirmation status of "REVIEW" is not valid for a withdrawal or a Price Type.</li> <li>5. No response means that no further synchronisation can occur.</li> <li>6. Condition segment is not required.</li> <li>7. Relationship segment is not required.</li> <li>8. The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.</li> <li>9. When the Item Price Type Segment Action Code = Delete (<b>Parent Price Type</b>)                         <ul style="list-style-type: none"> <li>• Must delete the parent Price Type and all children (targeted) Price Types for the Price Type being withdrawn.</li> <li>• <del>—</del> This deletes all price types associated with an item but not the item.</li> <li>• <b>Note: within the XML message, all child Price Types must be deleted prior to the parent Price Type.</b></li> </ul> </li> <li>10. When the Item Price Type Segment Action Code = Delete (<b>Child Price Type</b>)                         <ul style="list-style-type: none"> <li>• <b>Must delete the individual child Price Type only and not the parent Price Type.</b></li> <li>• <b>This deletes the individual child price type associated with an item but not the item.</b></li> </ul> </li> <li>11. The data recipient can override a previous confirmation status with another one through a confirmation response. Exception: cannot do this with a Price Type that has been rejected.</li> </ol>																					

- |  |  |
|--|--|
|  | <ol style="list-style-type: none"><li>12. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of '<u>RECEIVED</u>' followed by '<u>SYNCHRONISED</u>'. Exception: a data recipient cannot modify a status of <u>REJECTED</u>. A Restart is the only way to re-initiate synchronisation on a Price Type that has been rejected.</li><li>13. For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li></ol> |
|--|--|

### 3.15. Discontinue Item Price Type



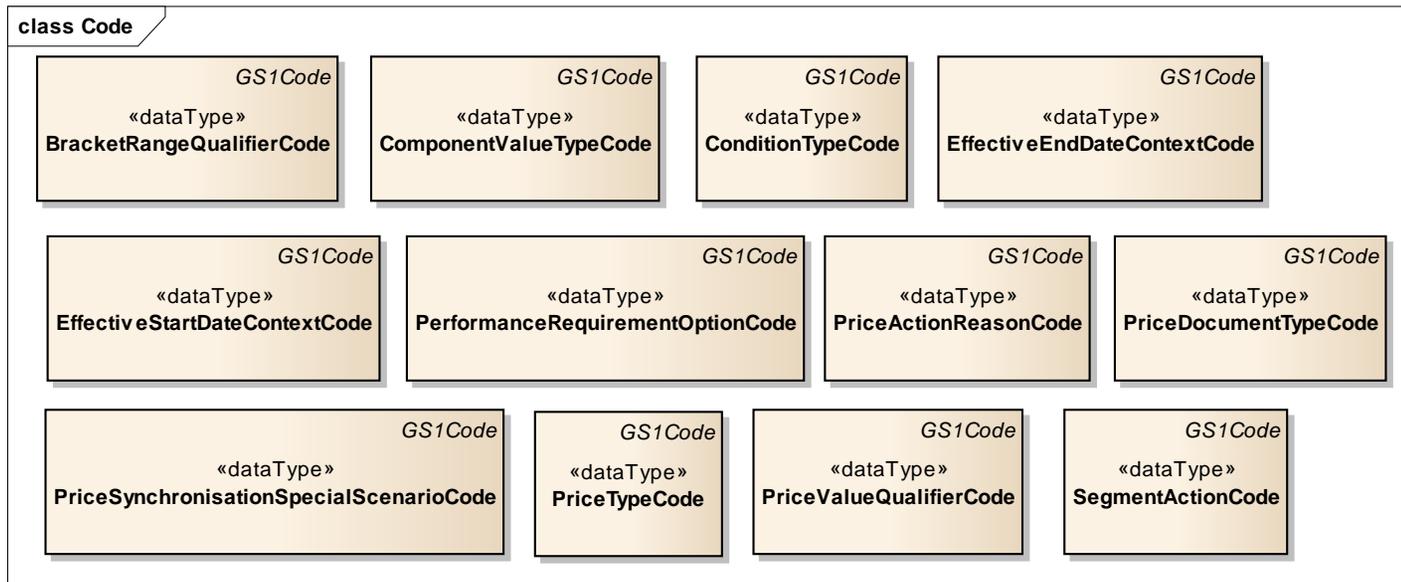
<b>Use Case ID</b>	UC-12
<b>Use Case Name</b>	Discontinue Item Price Type
<b>Use Case Description</b>	This use case deletes existing item depictions and/or any related price types that are already in effect.
<b>Actors (Goal)</b>	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
<b>Performance Goals</b>	Discontinues existing item depictions and/or any related price types.
<b>Preconditions</b>	Price synchronisation relationship exists and existing item depictions and/or any related price types have been accepted by data source.
<b>Post conditions</b>	Item depictions and/or any related price types have been discontinued.

<b>Scenario</b>	<p><b>Begins when...</b> The data source notifies their SDP of a need to discontinue item depictions and/or any related price types. (Done outside of the network).</p> <p><b>Continues with...</b></p> <table border="1" data-bbox="373 310 1433 846"> <thead> <tr> <th>Step #</th> <th>Actor</th> <th>Activity Step</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>SDP</td> <td>Performs necessary validations.</td> </tr> <tr> <td>2</td> <td>SDP</td> <td>Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the item depiction and price type segments with a segment action code "CHANGE_BY_REFRESH" and updates the price synchronisation list.</td> </tr> <tr> <td>3</td> <td>RDP</td> <td>Sends the price message to the data recipient.</td> </tr> <tr> <td>4</td> <td>Data Recipient</td> <td>Receives the message and confirms the discontinuation of the item depiction and price type segments by responding with an "accept" confirmation response. The confirmation response message is sent to the RDP.</td> </tr> <tr> <td>5</td> <td>RDP</td> <td>Sends the confirmation response message to the SDP.</td> </tr> <tr> <td>6</td> <td>SDP</td> <td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td> </tr> </tbody> </table> <p><b>Ends when...</b> the item depiction and price type segments have been discontinued.</p>	Step #	Actor	Activity Step	1	SDP	Performs necessary validations.	2	SDP	Creates a price synchronisation message using document command of "CHANGE_BY_REFRESH" and the item depiction and price type segments with a segment action code "CHANGE_BY_REFRESH" and updates the price synchronisation list.	3	RDP	Sends the price message to the data recipient.	4	Data Recipient	Receives the message and confirms the discontinuation of the item depiction and price type segments by responding with an "accept" confirmation response. The confirmation response message is sent to the RDP.	5	RDP	Sends the confirmation response message to the SDP.	6	SDP	Updates the price synchronisation list and sends the confirmation response message to the data source.
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<b>Related Rules</b>	<ol style="list-style-type: none"> <li>1. Header segment is mandatory and must be sent with this message.</li> <li>2. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than "1".</li> <li>3. A confirmation status of "REJECTED" is not valid for a discontinue.</li> <li>4. A confirmation status of "REVIEW" is not valid for a discontinue.</li> <li>5. No response means that no further synchronisation can occur.</li> <li>6. Condition segment is not required.</li> <li>7. Relationship segment is not required.</li> <li>8. For a discontinue, the End Effective Date must be populated or updated.</li> <li>9. The data recipient can override a previous confirmation status with another one through a confirmation response. Exception: cannot do this with a Price Type that has been rejected.</li> <li>10. Multiple confirmations can be sent by data recipients for a single price message or message segment. For example, a data recipient can send a status of 'RECEIVED' followed by 'SYNCHRONISED'. Exception: a data recipient cannot modify a status of REJECTED. A Restart is the only way to re-initiate synchronisation on a Price Type that has been rejected.</li> <li>11. For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.</li> </ol>																					

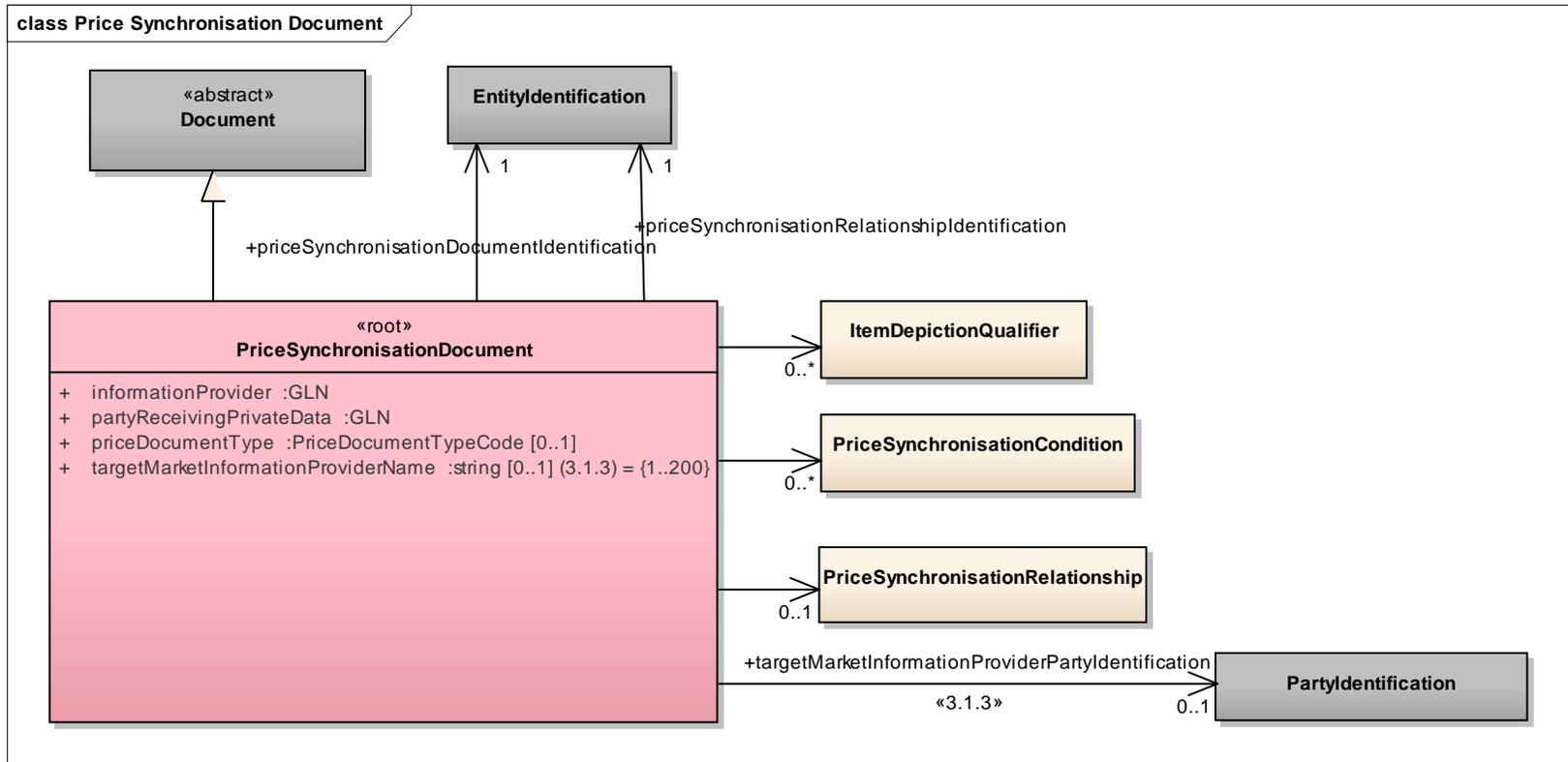
## 4. Information Model

### 4.1. Class Diagrams

#### 4.1.1. Codes



### 4.1.2. Price Synchronisation Document

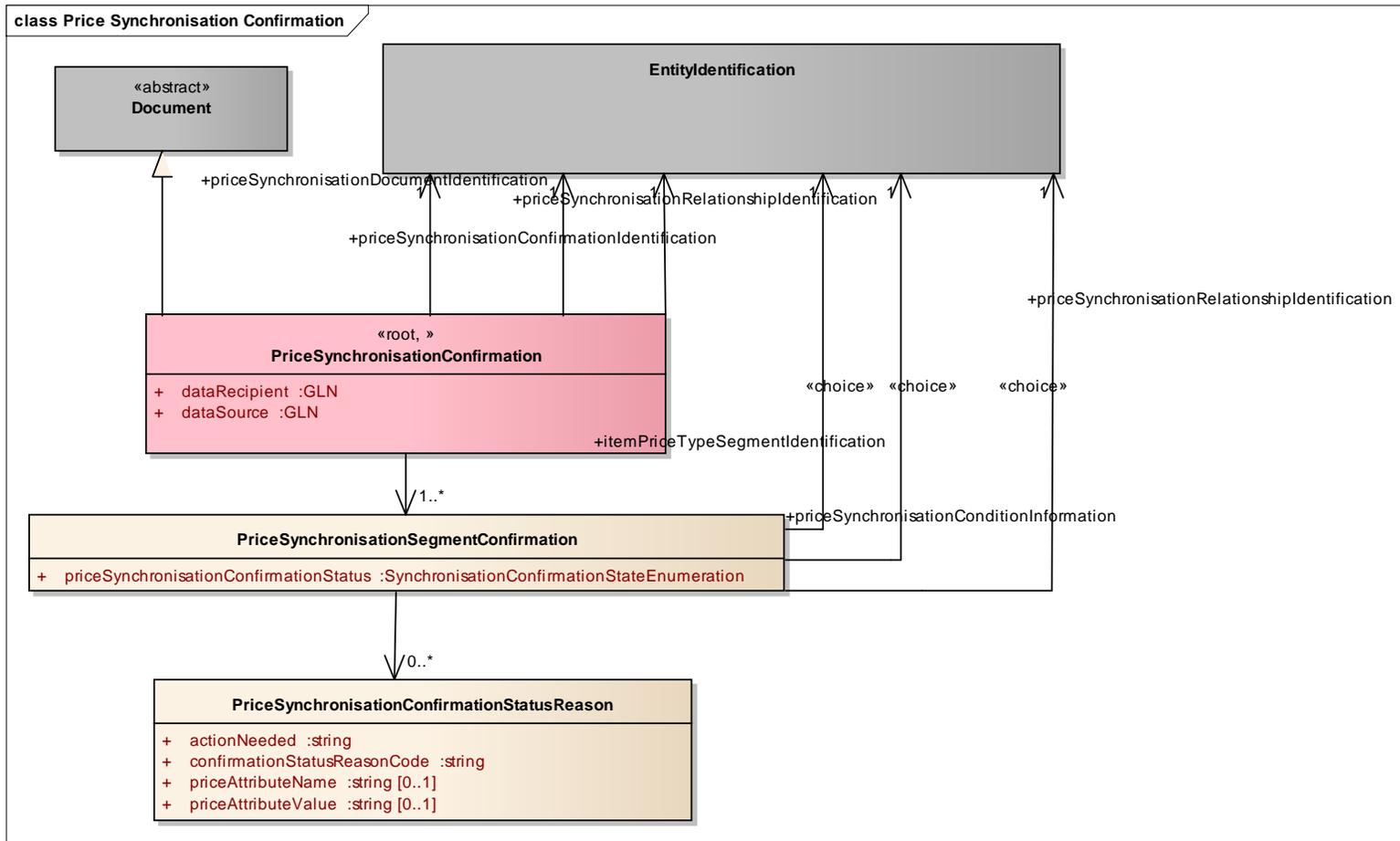


**Note:** Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
PriceSynchronisationDoc ument				An electronic document used to synchronise pricing information including pricing relationship, pricing elements and item price depiction between trading partners in order to facilitate an invoice amount equal to the expected payment amount equal to the actual payment.
Association	priceSynchronisationRelations hipIdentification	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify each price synchronization relationship that exists between

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
				the Information Provider and the Party Receiving Private Data. Each Price Synchronisation Message can only contain price information related to a single price synchronization relationship
Association		PriceSynchronisation RelationShip	0..1	Provides the depiction of a price synchronisation relationship for a price synchronisation document
Association		ItemDepictionQualifie r	0..*	Provides one or more item depictions for a price synchronisation document
Association		PriceSynchronisation Condition	0..*	Provides one or many price synchronisation conditions for a price synchronisation document
Association	priceSynchronisationDocumen tIdentification	EntityIdentification	1..1	Within a given price synchronization relationship, a number assigned by the Source Data Pool to uniquely identify each instance of a Price Synchronization Message sent from the Source Data Pool to the Party Receiving Private Data. The number is unique within each Price synchronization relationship
<u>Association</u>	<u>targetMarketInformationProvid erPartyIdentification</u>	<u>PartyIdentification</u>	<u>0..1</u>	<u>The party identification (GLN and additional) of any local provider of price information for an item if this party is different than the Price Synchronisation Document Information Provider.</u>
Generalization		Document		
Attribute	informationProvider	GLN	1..1	The party who owns the data.
Attribute	partyReceivingPrivateData	GLN	1..1	Party, which is authorized to view, use, download the data provided by a Data Source.
Attribute	priceDocumentType	PriceDocumentTypeC ode	0..1	A code assigned by the Information Provider to indicate to the Party Receiving Private Data, the intended use or purpose of sending the Price Synchronisation Message. The Party Receiving Private Data is able to use this code to determine how to process the information contained within the message. For example, initial load of data, resend of previously sent data or ongoing data synchronisation.
<u>Attribute</u>	<u>targetMarketInformationProvid erName</u>	<u>String</u>	<u>0..1</u>	<u>The name of any local provider of price information for an item if this party is different than the Price Synchronisation Document Information Provider.</u>

### 4.1.3. Price Synchronisation Confirmation



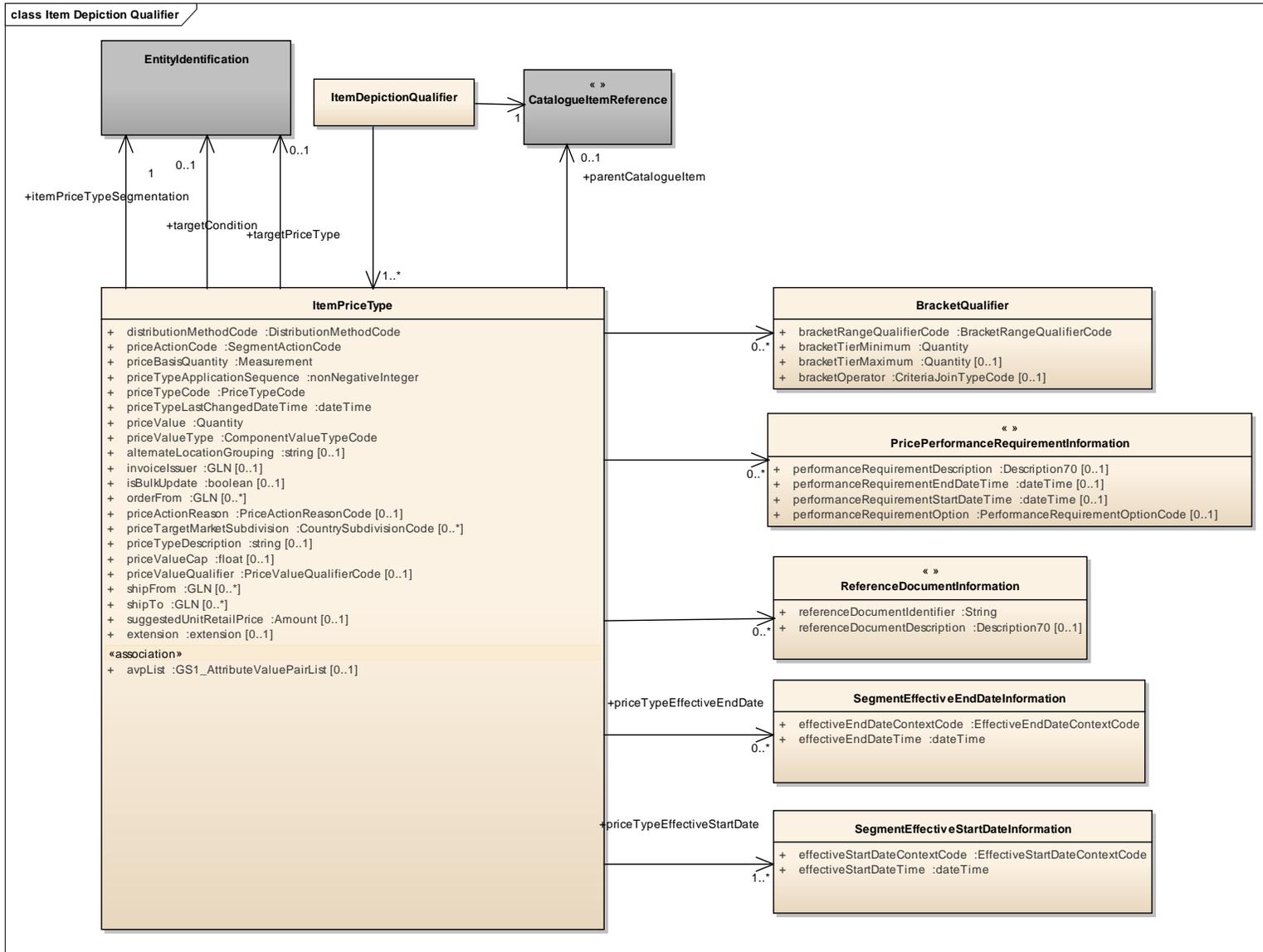
**Note:** Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
PriceSynchronisationSegmentConfirmation				The synchronisation status for the price synchronisation relationship, condition or price segment.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
Association	itemPriceTypeSegmentIdentifi cation	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify a price component associated with an item (from the item price type segment of the price message to which this confirmation is responding).
Association	priceSynchronisationRelations hipIdentification	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify each price synchronization relationship that exists between the Information Provider and the Party Receiving Private Data. Each Price Synchronisation Message can only contain price information related to a single price synchronization relationship (from the relationship segment of the price message to which this confirmation is responding).
Association		Pricesynchronisation ConfirmationStatusRe ason	0..*	Provides the reason, action required and relevant attributes and values connected with a synchronisation status.
Association	priceSynchronisationConditionI nformation	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify a summary condition or an item condition of type bracket (from the condition segment of the price message to which this confirmation is responding).
Attribute	priceSynchronisationConfirmat ionStatus	SynchronisationConfir mationStatusEnumer ation	1..1	Describes the data recipient's action taken on the information contained in a specific segment of the price synchronization message.
<b>PricesynchronisationCon firmationStatusReason</b>				Provides further details regarding the synchronisation status for the price synchronisation relationship, condition or price segment including the reason for the status, the action needed and any specific attribute.
Attribute	actionNeeded	string	1..1	Identifies the type of action the data source needs to take in order to resolve the data recipient's issue.
Attribute	confirmationStatusReasonCod e	string	1..1	Identifies the type issue the data recipient has with the value communicated in the attribute name.
Attribute	priceAttributeName	string	0..1	Name of the attribute in the Price Synchronization message.
Attribute	priceAttributeValue	string	0..1	Value sent in the price synchronisation message that is associated with the attribute name.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
PriceSynchronisationConfir mation				The electronic communication from the Data Recipient to the Data Source indicating what action has been taken on the price synchronisation relationship, condition or price segment.
Generalization		Document		
Association	priceSynchronisationRelations hipIdentification	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify each price synchronization relationship that exists between the Information Provider and the Party Receiving Private Data. Each Price Synchronisation Message can only contain price information related to a single price synchronization relationship (from the price synchronization header of the price message to which this confirmation is responding).
Association	priceSynchronisationConfirmat ionIdentification	EntityIdentification	1..1	Uniquely identifies the Price Synchronisation Confirmation
Association	priceSynchronisationDocumen tIdentification	EntityIdentification	1..1	Within a given price synchronization relationship, a number assigned by the Source Data Pool to uniquely identify each instance of a Price Synchronization Message sent from the Source Data Pool to the Party Receiving Private Data. The number is unique within each Price synchronization relationship (from the price synchronization header of the price message to which this confirmation is responding).
Association		PriceSynchronisation SegmentConfirmation	1..*	Provides the confirmation status and the applicable price synchronisation segment.
Attribute	dataRecipient	GLN	1..1	The party receiving the private data (for example, retailer). This information is taken from the price synchronization header of the price message to which this confirmation is responding.
Attribute	dataSource	GLN	1..1	The information provider of the Price Synchronization message (for example, supplier). This is taken from the price synchronization header of the price message to which this confirmation is responding.

### 4.1.4. Item Depiction Qualifier





**Note:** Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
ItemDepictionQualifier				A price synchronisation message segment used to show how the pricing information would be depicted on an invoice.
Association		ItemPriceType	1..*	Associates one or many item price types with an item depiction qualifier.
Association		CatalogueItemReference	1..1	Associates a price type with a catalogue item.
<del>PriceCommentaryInformation</del>				<del>Details on a price including price value, price value type, price type and description used to depict addition expressions of a price for example list price with VAT</del>
<del>Attribute</del>	<del>priceValue</del>	<del>Quantity</del>	<del>1..4</del>	<del>Price value used to provide more detail for a parent price.(e.g. \$12.00)</del>
<del>Attribute</del>	<del>priceValueType</del>	<del>ComponentValueTy eCode</del>	<del>1..4</del>	<del>A classification of the price component used to determine how to apply the amount for example value, rate or percent for a price commentary.</del>
<del>Attribute</del>	<del>priceTypeCode</del>	<del>PriceType</del>	<del>1..4</del>	<del>A code assigned to identify the kind or class of a price for a descriptive price.</del>
<del>Attribute</del>	<del>priceTypeDescription</del>	<del>string</del>	<del>0..4</del>	<del>Text used to provide an additional description of a commentary price.</del>
BracketQualifier				Identifies conditions required to be met to qualify for a bracket
Attribute	bracketRangeQualifierCode	BracketRangeQualifie rCode	1..1	Specifies whether the bracket range is based upon an amount, a measurement or another quantity
Attribute	bracketTierMinimum	Quantity	1..1	The lower limit for qualification for a bracket. The lower limit for qualification for a bracket.
Attribute	bracketTierMaximum	Quantity	0..1	The upper limits for qualification for a bracket.
Attribute	bracketOperator	BracketOperatorCode	0..1	A function to identify the logical relationship between multiple bracket qualifiers (And/Or).
SegmentEffectiveEndDateI nformation				The effective end date and associated context (e.g. last order date) for a condition.

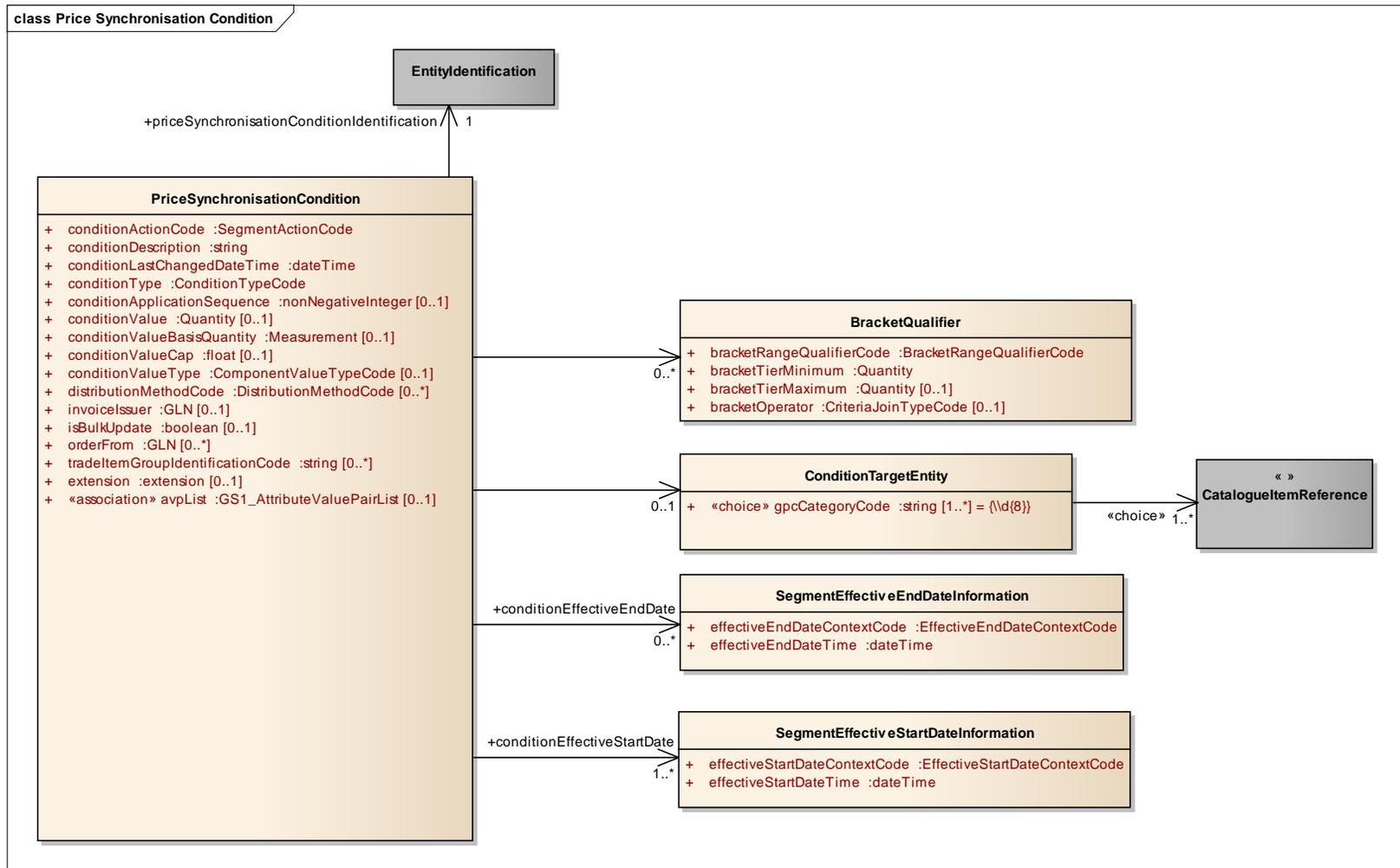
Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
Attribute	effectiveEndDateTime	dateTime	1..1	A datetime used to indicate when the component depicted in the segment is no longer available for use.
Attribute	effectiveEndDateContextCode	EffectiveEndDateContextCode	1..1	An associated event which gives significance to the effective start date for a segment for example first order date.
SegmentEffectiveStartDateInformation				The start date and applicable context for the start date (first order date) for a condition type.
Attribute	effectiveStartDateTime	dateTime	1..1	The date on which the price synchronisation component begins.
Attribute	effectiveStartDateContextCode	EffectiveStartDateContextCode	1..1	An associated event which gives significance to the effective start date for a segment for example first order date.
ItemPriceType				Contains details of a price component associated with an item.
Association	priceTypeEffectiveStartDate	SegmentEffectiveStartDateInformation	1..*	Provides details on start dates for a given price type.
Association	priceTypeEffectiveEndDate	SegmentEffectiveEndDateInformation	0..*	Provides end date details for a given price type.
<del>Association</del>		<del>PriceCommentaryInformation</del>	<del>0..*</del>	<del>Details for a price type, on a price including price value, price value type, price type and description used to depict addition expressions of a price for example list price with VAT. — MP01</del>
Association		PricePerformanceRequirementInformation	0..*	Provides performance requirements for a price type.
Association		BracketQualifier	0..*	Provides qualifiers required for eligibility for a price type of bracket.
Association		ReferenceDocumentInformation	0..*	Provides reference information related to a given price for example a contract number
Association	parentCatalogueItem	CatalogueItemReference	0..1	A reference to another trade item that is higher in the hierarchal configuration than the item referenced in the Item depiction. Used to vary the price of an item based on a higher level component in a hierarchal configuration.
Association	targetCondition	EntityIdentification	0..1	A reference to a previous Condition Identification that was used to define the Bracket Qualifiers -

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
				references back to the summary condition Identification.
Association	targetPriceType	EntityIdentification	0..1	A reference to a previous Price Type Identification that was used to define a component that this price is associated with.
Association	avpList	GS1_AttributeValueP airList	0..1	Attribute value pair information.
Association	itemPriceTypeSegmentation	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify a price component associated with an item.
Attribute	distributionMethodCode	DistributionMethodCo de	1..1	The mode by which the Information Provider and the Party Receiving Private Data have agreed at what point(s) in the supply chain the Information Provider makes the goods available to the Party Receiving Private Data.
Attribute	priceActionCode	SegmentActionCode	1..1	A code assigned by the Information Provider to indicate to the Party Receiving Private Data, the reason for sending the price information contained within the specified segment within the Price Synchronization Message. The Party Receiving Private Data is able to use this code to determine the nature of the action associated with each price component within each price type segment. For example the addition of a new record, the modification of an existing record or the correction of an existing record.
Attribute	priceBasisQuantity	Measurement	1..1	Price Basis Quantity qualifies Price with a 'Price Per' quantity. This must include a unit of measure to describe what the price and price quantity applies to, such as, a price of \$100 could apply to 1 case of product or to 25 Kilos. Price Basis Quantity includes a Unit of Measure.
Attribute	priceTypeApplicationSequenc e	nonNegativeInteger	1..1	The order in which the value associated with a price type is applied in the process of calculating the net invoice price.
Attribute	priceTypeCode	PriceTypeCode	1..1	A code assigned to identify the kind or class of a price component.
Attribute	priceTypeLastChangedDateTi me	dateTime	1..1	Identifies a certain point in time where the segment was last modified.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
Attribute	priceValue	Quantity	1..1	Associates a percent or integer value with a price value.
Attribute	priceValueType	ComponentValueTyp eCode	1..1	A classification of the price component used to determine how to apply the amount for example value, rate or percent.
Attribute	alternateLocationGrouping	string	0..1	A string of characters used to describe a cluster of business locations mutually defined by the Information Provider and the Party Receiving Private Data.
Attribute	extension	extension	0..1	
Attribute	isBulkUpdate	boolean	0..1	Indicates that the update to the price type is for a full price list update. This update may include price increase, price decrease, unchanged prices or new prices. This price change is managed globally by the retailer.
Attribute	invoiceIssuer	GLN	0..1	The party who issues the invoice for the trade item according to the condition synchronised.
Attribute	orderFrom	GLN	0..*	The location that the item can be ordered from according to the price synchronised
Attribute	priceValueCap	float	0..1	A quantity or measurement associated with the price value qualifier to limit the calculation of rate to a specified maximum amount. This would be used where a trading partner sets a maximum value for an offer.
Attribute	priceValueQualifier	PriceValueQualifierC ode	0..1	A code assigned to identify the basis on which a specific price value is acted upon. For example, if the Price Value was 2%, the Price Value Qualifier would be 'percent'.
Attribute	priceActionReason	PriceActionreasonCo de	0..1	A code to indicate the justification or explanation as to why the action associated with each price component has occurred. All actions may have an associated reason.
Attribute	priceTargetMarketSubdivision	CountrySubdivisionC ode	0..*	The code for country sub-division used to indicate the geo-political subdivision of the target market (=country).
Attribute	priceTypeDescription	string	0..1	Text used to provide an additional description of the price component.

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
Attribute	shipFrom	GLN	0..*	Identifies the origin location from where the goods will be shipped.
Attribute	shipTo	GLN	0..*	The location destination to which goods will be shipped.
Attribute	suggestedUnitRetailPrice	Amount	0..1	The retail (to consumer) price as suggested by the manufacturer. This is normally used to establish a proposed value for the trade item for marketing purposes. May or may not appear on the package.
PricePerformanceRequirem entInformation				Standardized list of requirements which are types of price components to be met to receive a monetary value.
Attribute	performanceRequirementDesc ription	Description70	0..1	A string of characters used to describe additional or more specific requirements to be met in order to receive a monetary value.
Attribute	performanceRequirementEnd DateTime	dateTime	1..1	A date indicating the ending of a period during which the performance requirements should be met.
Attribute	performanceRequirementStart DateTime	dateTime	1..1	A date indicating the beginning of a period during which the performance requirements should be met.
Attribute	performanceRequirementOptio n	performanceRequire mentOptionCode	0..1	Standardized list of requirements which are types of price components to be met to receive a monetary value.
<u>ReferenceDocumentInform ation</u>				<u>This class enables the input of a reference document (e.g. contract ) for a specific condition.</u>
<u>Attribute</u>	<u>referenceDocumentIdentifier</u>	<u>string</u>	<u>1..1</u>	<u>Identifier that provides a link to further detail on the price condition, for example an associated contract between trading partners.</u>
<u>Attribute</u>	<u>referenceDocumentDescriptio n</u>	<u>Description70</u>	<u>0..1</u>	<u>A free form text field used to describe a contract or other document which contains more information about agreements made regarding a condition.</u>

### 4.1.5. Price Synchronisation Condition



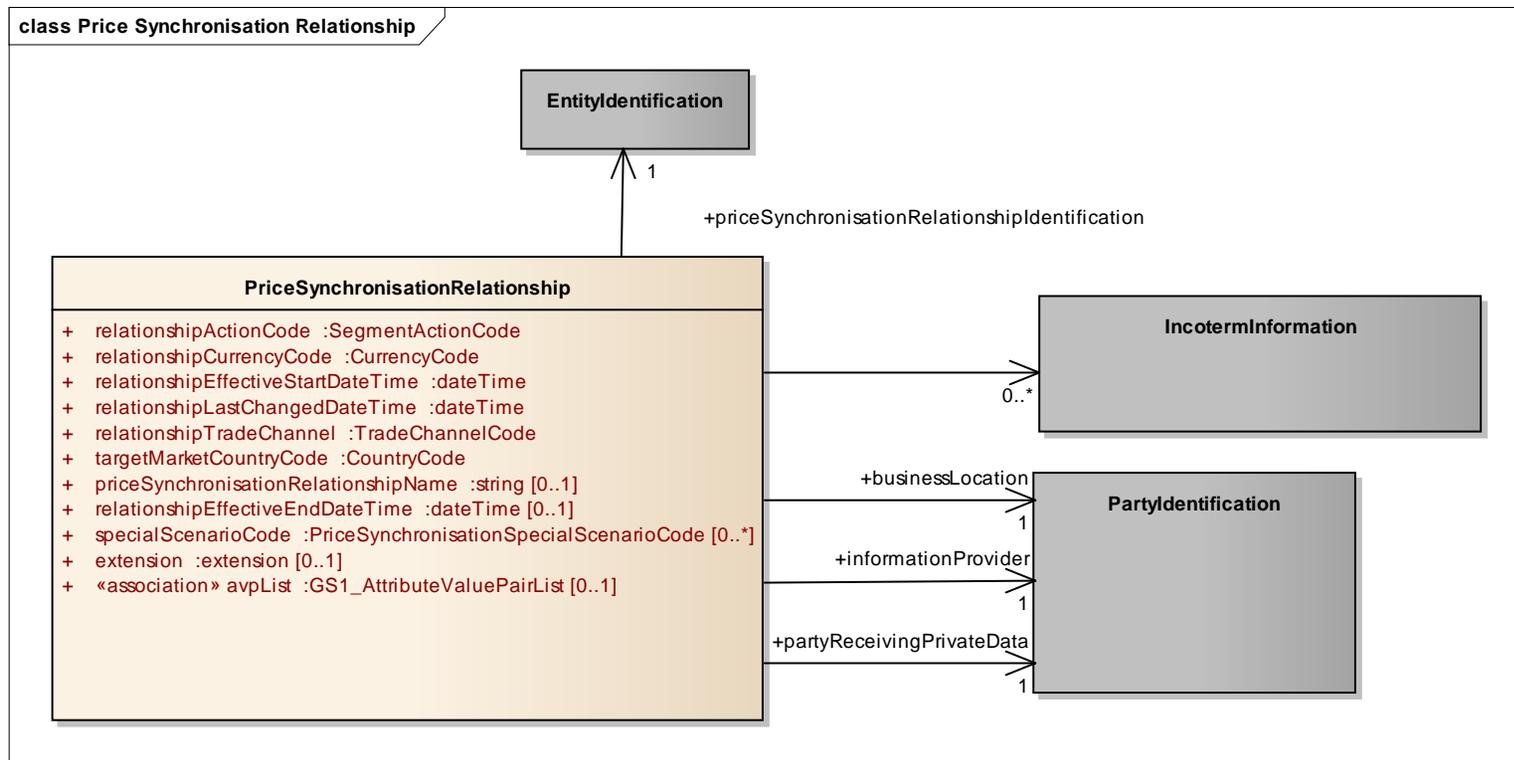
**Note:** Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
<b>PriceSynchronisationCon dition</b>				
Association		ConditionTargetEntity	0..1	Provides an item of grouping of items associated with a price condition
Association	priceSynchronisationCondition Identification	EntityIdentification	1..1	A string of characters assigned by the Information Provider to uniquely identify a summary condition or an item condition of type bracket.
Association		BracketQualifier	0..*	Provides conditions for being qualified for a given bracket.
Association	conditionEffectiveStartDate	SegmentEffectiveStar tDateInformation	1..*	Provides the effective start date and context for a price synchronisation condition.
Association	conditionEffectiveEndDate	SegmentEffectiveEnd DateInformation	0..*	Provides the effective end date and context for a price synchronisation condition
Association	avpList	GS1_AttributeValueP airList	0..1	Attribute value pair information.
Attribute	conditionActionCode	SegmentActionCode	1..1	A code assigned by the Information Provider to indicate to the Party Receiving Private Data, the reason for sending the price information contained within the specified segment within the Price Synchronization Message. The Party Receiving Private Data is able to use this code to determine the nature of the action associated with each condition within each condition segment. For example the addition of a new record, the modification of an existing record or the correction of an existing record.
Attribute	conditionDescription	string	1..1	Text used to provide an additional description of the condition
Attribute	conditionLastChangedDateTim e	dateTime	1..1	Identifies a certain point in time where the segment was last modified.
Attribute	conditionType	ConditionTypeCode	1..1	Condition types are general classifications for a given condition. The treatment of the values in a price calculation is determined by the Condition Type.
Attribute	conditionApplicationSequence	nonNegativeInteger	0..1	The order in which the value associated with a summary condition type of allowance or charge, is applied in the process of calculating the net invoice

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
				price.
Attribute	conditionValue	Quantity	0..1	Provides a value or percent associated with a condition
Attribute	conditionValueType	ComponentValueTyp eCode	0..1	A classification of the price component used to determine how to apply the amount for example value, rate or percent.
Attribute	conditionValueCap	float	0..1	A quantity or measurement associated with the condition value qualifier to limit the calculation of rate to a specified maximum amount. This would be used where a trading partner sets a maximum value for an offer.
Attribute	conditionValueBasisQuantity	Measurement	0..1	The base amount used for a condition in the case or a rate for example \$10 per '100' yards where 100 yards is the value basis.
Attribute	distributionMethodCode	DistributionMethodCo de	0..*	The mode by which the Information Provider and the Party Receiving Private Data have agreed at what point(s) in the supply chain the Information Provider makes the goods available to the Party Receiving Private Data.
Attribute	extension	extension	0..1	
Attribute	invoiceIssuer	GLN	0..1	The party who issues the invoice for the trade item according to the condition synchronised.
Attribute	isBulkUpdate	boolean	0..1	Indicates that the update to the condition is for a full price list update. This update may include price increase, price decrease, unchanged prices or new prices. This price change is managed globally by the retailer
Attribute	orderFrom	GLN	0..*	The location that the item can be ordered from according to the condition synchronised.
Attribute	tradeItemGroupIdentificationC ode	string	0..*	A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classification.
ConditionTargetEntity				Provides the specific item or groups of items that the condition applies to
Association	<<Choice>>	CatalogueItemRefere nce	1..*	Associates one or many catalogue items with a price type.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	<<Choice>>gpcCategoryCode	string	1..*	The GS1 provided code which identifies the Global Product Classification Attribute Value.
SegmentEffectiveEndDateInformation				The effective end date and associated context (e.g. last order date) for a condition.
Attribute	effectiveEndDateContextCode	EffectiveEndDateContextCode	1..1	An associated event which gives significance to the effective start date for a segment for example first order date.
Attribute	effectiveEndDateTime	dateTime	1..1	A date\time used to indicate when the component depicted in the segment is no longer available for use.
SegmentEffectiveStartDateInformation				The start date and applicable context for the start date (first order date) for a condition type.
Attribute	effectiveStartDateContextCode	EffectiveStartDateContextCode	1..1	An associated event which gives significance to the effective start date for a segment for example first order date.
Attribute	effectiveStartDateTime	dateTime	1..1	The date on which the price synchronisation component begins.

### 4.1.6. Price Synchronisation Relationship



**Note:** Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
PriceSynchronisationRelationship				A message segment used to establish a price synchronisation relationship between trading partners.
Association	priceSynchronisationRelationshipIdentification	EntityIdentification	1..1	Identifies a unique buyer-seller price sync relationship generated by the data source.
Association	informationProvider	PartyIdentification	1..1	The party who owns the data
Association	partyReceivingPrivateData	PartyIdentification	1..1	Party, which is authorized to view, use, download

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
				the data provided by a Data Source.
Association	businessLocation	PartyIdentification	1..1	An entity that belongs to the Party Receiving Private Data, who is the intended recipient of the price information contained within the Price Synchronization Message.
Association		IncotermInformation	0..*	Provides incoterm details applicable to a trading partner relationship.
Association	avpList	GS1_AttributeValueP airList	0..1	Attribute value pair information.
Attribute	relationshipActionCode	SegmentActionCode	1..1	Indicates how the trading partner applies the information in the specified segment
Attribute	relationshipCurrencyCode	CurrencyCode	1..1	A code used to indicate the system of money used within a particular country by the trading partners to conduct their commercial transactions.
Attribute	relationshipEffectiveStartDateT ime	dateTime	1..1	The day on which the price synchronization relationship commences.
Attribute	relationshipLastChangedDateT ime	dateTime	1..1	Identifies a certain point in time where the segment was last modified.
Attribute	relationshipTradeChannel	TradeChannelCode	1..1	Used to specify how the trading partners within a price synchronization relation agree to define the distribution or marketing segmentation of products, customers and geographic areas into common groups that are supplied, serviced and measured in similar ways. The Trade Channel may be defined in the context of the Party Receiving Private Data.
Attribute	targetMarketCountryCode	CountryCode	1..1	The target market code indicates the country level or higher geographical definition in which the price information is applicable.
Attribute	extension	extension	0..1	An extension point for a Price Synchronisation Relationship.
Attribute	priceSynchronisationRelations hipName	string	0..1	The name assigned by the buyer and seller to their price sync relationship.
Attribute	relationshipEffectiveEndDateTi me	dateTime	0..1	The day on which the price synchronization relationship ends.
Attribute	specialScenarioCode	PriceSynchronisation	0..*	A specialised price synchronisation scenario that may be prevalent in a certain target market based

Content	Attribute / Role	Datatype /Secondary class	Multipl icity	Definition
		SpecialScenarioCode		on regional business practices or regulations. This attribute is used to trigger special processing by the data source and/or data recipient based on the needs of this scenario. This attribute uses the PriceSynchronisationSpecialScenarioCode.

## 4.2. Code Lists



**Note:** Reference Shared Common Library Business Message (BMS) Release 3.0.0 and GDSN Domain Common Library Business Message (BMS) Release for all common code lists.

### 4.2.1. Bracket Range Qualifier Code

<b>GS1 Code List</b>	<b>BracketRangeQualifierCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
AMOUNT_RANGE	A range value with a currency.
MEASUREMENT_RANGE	A range value using a Unit Of Measure
RANGE	A numeric range.

### 4.2.2. Component Value Type Code

<b>GS1 Code List</b>	<b>ComponentValueTypeCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
PERCENT	A part of a whole expressed in hundredths
VALUE	A numerical quantity that is assigned or is determined by calculation or measurement.

### 4.2.3. Condition Type Code

<b>GS1 Code List</b>	<b>ConditionTypeCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
ALLOWANCE	Credit reflected on an invoice. This can occur either at the item or the invoice level. There are many types of allowances. Some are contractually based, e.g. backhaul, others are not formalized contracts. Some allowances are offered to the industry such as payment terms while others such as promotional allowances are trading partner specific.
BRACKET	The price associated with an item for the purchase of a specific number of trade items, or some other logistical measure (weight, cube, truck). These are often offered in a series (e.g. 100 to 299 case lots, 300 to 599, full truckload, half truckload; each offering a different discount).
CHARGE	Debit reflected on an invoice. This can occur either at the item or at the invoice level. There are many types of charges. Some are contractually based, others are not formalized contracts.
PRICE_NOTIFICATION_LEAD_TIME	Number of calendar days from a stated effective date that a price becomes valid for application.
ROUNDING_FACTOR	The number of positions to the right of the decimal (or comma) that trading partners agree to define as the precision of the numerical value communicated between the partners.

### 4.2.4. Effective End Date Context Code

<b>GS1 Code List</b>	<b>EffectiveEndDateContextCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
AD_END_DATE	The end date for an advertisement for a given product.
LAST_DELIVERY_DATE	The day on which the last delivery is made.
LAST_ORDER_DATE	It indicates the latest date that an order can be placed for the trade item.
LAST_SHIP_DATE	It indicates the latest date that the trade item can be shipped. This is independent of any specific ship-from location.

#### 4.2.5. Effective Start Date Context Code

<b>GS1 Code List</b>	<b>EffectiveStartDateContextCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
AD_START_DATE	The start date for an advertisement for a given product.
FIRST_DELIVERY_DATE	The day on which the first delivery is made. Also know as First Arrival Date.
FIRST_ORDER_DATE	It indicates the earliest date that an order can be placed for the trade item.
FIRST_SHIP_DATE	It indicates the earliest date that the trade item can be shipped. This is independent of any specific ship-from location.

#### 4.2.6. Performance Requirement Option Code

<b>GS1 Code List</b>	<b>PerformanceRequirementOptionCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
AISLE_DISPLAY	Not Available
BILLBOARD_AD	Not Available
BOGO	Not Available
CHART	Not Available
COUPON	Not Available
DIRECT_MAIL	Not Available
DUMP_BIN	Not Available
END_CAP_DISPLAY	Not Available
FLOOR_GRAPHICS	Not Available
FLOOR_STACK	Not Available
FLYER	Not Available
FREE_ITEM	Not Available
GONDOLA_DISPLAY	Not Available
IN_STORE_SPECIAL	Not Available
IN_STORE_DEMO_SAMPLE	Not Available

IN_STORE_DISPENSER	Not Available
INSERT	Not Available
INSTANT_REBATE	Not Available
INTERNET_AD	Not Available
ITEM_INTRO	Not Available
MAIL_IN_REBATE	Not Available
MEMBERSHIP_CARD	Not Available
NEWSPAPER_AD	Not Available
ON_COUNTER	Not Available
OTHER	An unspecified type.
PERIMETER_DISPLAY	Not Available
PURCHASE_WITH_PURCHASE	Not Available
RACK_DISPLAY	Not Available
RADIO_AD	Not Available
RETAILER_CIRCULAR	Not Available
SCANNER	Not Available
SHELF_EXTENDER	Not Available
SHIPPER_DISPLAY	Not Available

#### 4.2.7. Price Action Reason Code

<b>GS1 Code List</b>	<b>PriceActionReasonCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
NI	The introduction of a new item.
PD	Price decrease.
PI	A price increase.
RE	Range extension.
SC	Size change (Pack or Pallet).
TPR	Temporary price reduction.

#### 4.2.8. Price Document Type Code

<b>GS1 Code List</b>	<b>PriceDocumentTypeCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
INITIAL_LOAD	The sending of pricing information for the first time.
RELOAD	Sending all current and known future pricing. This is used to start over by replacing previously synchronised information.
RESEND	Indicates that the message is used to recover a lost or missing message.
RESTART	The status used when a data recipient had rejected an item's pricing but wishes to resume price synchronisation.

#### 4.2.9. Price Synchronisation Special Scenario Code

<b>GS1 Code List</b>	<b>PriceSynchronisationSpecialScenarioCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

1	Resynchronisation of all Price Types for pricing done at the lowest level consumer unit. Uses NO_ACTION code to differentiate price types that have changed from those that have not.
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## 4.2.10. Price Type Code

<b>GS1 Code List</b>	<b>PriceTypeCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

ALLOWANCE	Credit reflected on an invoice. This can occur either at the item or the invoice level. There are many types of allowances. Some are contractually based, e.g. backhaul, others are not formalized contracts. Some allowances are offered to the industry such as payment terms while others such as promotional allowances are trading partner specific.
BRACKET_TIER_PRICE	The price associated with an item for the purchase of a specific number of trade items, or some other logistical measure (weight, cube, truck). These are often offered in a series (e.g. 100 to 299 case lots, 300 to 599, full truckload, half truckload; each offering a different discount).
CHARGE	Debit reflected on an invoice. This can occur either at the item or at the invoice level. There are many types of charges. Some are contractually based, others are not formalized contracts.
CONTRACT_PRICE	The price associated with an item that has been negotiated or agreed to between trading partners exclusive of taxes but inclusive of allowances, charges and customs duty where applicable. This price would typically be associated with a formal contract between trading partners.
DECLARED_CUSTOMS_VALUE	This is the value of the item as declared by the supplier. This value is used by customs to calculate the customs duty that is payable.
INTRODUCTORY_PRICE	Not Available
LIST_PRICE	External price associated with a product absent of all allowances or charges. This is normally the printed price contained on supplier's price list or catalogue. (May or may not be customer specific).
OTHER	An unspecified type.
PROMOTIONAL_PRICE	A price that is available only as part of a promotion.
RETAIL_PRICE	The retail (to consumer) price as suggested by the manufacturer. May or may not appear on the package.

TRANSACTION_PRICE	The line item/GTIN price shown on the invoice document, including allowances and/or charges applying to the trading partner relationship (which can be zero), but excluding VAT and any other taxes, fees, and/or duties.
TRANSACTION_PRICE_WITH_SPECIAL_TAXES	The line item / GTIN price shown on the invoice document, including allowances and/ or charges applying to the trading partner relationship (which can be zero), excluding VAT, but including any other taxes, fees, and/or duties.
TRANSACTION_PRICE_WITH_VAT_AND_SPECIAL_TAXES	The line item / GTIN price shown on the invoice document, including allowances and/ or charges applying to the trading partner relationship (which can be zero), including both VAT and any other taxes, fees, and/or duties.
UNDERBOND_LIST_PRICE	The price associated with an item exclusive of all allowances, charges, taxes and customs duty. (May or may not be customer specific). This applies to imported items that upon arrival into the country are stored in a Customs bonded warehouse. The goods are then sold without the customs duty paid. The purchaser must pay the customs duty.
UNDERBOND_TRANSACTION_PRICE	The price associated with an item exclusive of all taxes and customs duty but inclusive of all allowances and charges. This applies to imported items that upon arrival into the country are stored in a Customs bonded warehouse. The goods are then sold without the customs duty paid. The purchaser must pay the customs duty.

#### 4.2.11. Price Value Qualifier Code

<b>GS1 Code List</b>	PriceValueQualifierCode
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
MONETARY_AMOUNT	An amount of or relating to money.
PERCENT	One part in a hundred.

#### 4.2.12. Segment Action Code

<b>GS1 Code List</b>	<b>SegmentActionCode</b>
<b>GS1 Code List Version</b>	R1
<b>Managing Agency</b>	GS1
<b>Based on Code List</b>	n/a
<b>Type Of Management</b>	n/a

Code List Name	Code List Description
ADD	Used to signify that a Data Source is seeking to synchronise new data with the Data Recipient
CORRECT	Used to error correct or change the values of mandatory key attributes or an attribute where the change results in material financial impact.
DELETE	Used to remove one or many iterations of an existing segment.
CHANGE_BY_REFRESH	Used to change the values of any of the optional attributes within the segment.
NO_ACTION	No change or correction is being made to the segment.

## 5. Business Document Example

Attribute	Value
<b>PriceSynchronisationDocument</b>	
<b>Document</b>	
creationDateTime	2011-03-11 11:00
documentStatus	ORIGINAL
<ul style="list-style-type: none"> <li>informationProvider</li> <li>partyReceivingPrivateData</li> <li>priceDocumentType</li> </ul>	0012345000010 0056345000022 INITIAL_LOAD
<b>priceSynchronisationDocumentationIdentification</b>	
- entityIdentification	20051101
PartyIdentification (contentOwner)	
- gln	8712345678913
<b>priceSynchronisationRelationshipIdentification</b>	
- entityIdentification	20051102
PartyIdentification (contentOwner)	
- gln	8712345678913
<b>PriceSynchronisationRelationship</b>	
<ul style="list-style-type: none"> <li>PriceSynchronisationRelationshipIdentification</li> </ul>	
- entityIdentification	20051101

Attribute	Value
PartyIdentification (contentOwner)	
- gln	8712345678913
• priceSynchronisationRelationshipName	Nana Corporation Food Service
• relationshipAction	ADD
• relationshipCurrencyCode	USD
• relationshipEffectiveEndDateTime	2007-01-10T12:00:01.000
• relationshipEffectiveStartDateTime	2006-01-10T12:00:01.000
• relationshipLastChangedDateTime	2007-01-10T12:00:01.000
• relationshipTradeChannel	FOOD_SERVICE
• targetMarketCountryCode	US
• informationProvider	0012345000010
• businessLocation	0012345000010
• partyReceivingPrivateData	0056345000022
<b>IncotermInformation</b>	
• incotermCode	CFR
• incotermCodeLocation	Port Charlotte
<b>PriceSynchronisationCondition</b>	
• conditionActionCode	ADD
• conditionApplicationSequence	1
• conditionDescription	Extremely Large Order Bracket
• conditionLastChangedDateTime	2007-01-10T12:00:01.000
• conditionType	BRACKET
• conditionValueBasisQuantity	10,000 YD
• conditionValue	10.00
• conditionValueType	PERCENT
• conditionValueCap	10.00
<b>PriceSynchronisationConditionIdentification</b>	
○ uniqueCreatorIdentification	WG-000007
○ contentOwner	0012345000010
<b>conditionEffectiveStartDate</b>	
○ effectiveStartDateTime	2006-01-10T12:00:01.000
○ effectiveStartDateContextCode	FIRST_DELIVERY_DATE
<b>conditionEffectiveEndDate</b>	
○ effectiveEndDateTime	2007-01-10T12:00:01.000
○ effectiveEndDateContextCode	LAST_DELIVERY_DATE
<b>BracketQualifier</b>	
• bracketRangeQualifierCode	MEASUREMENT_RANGE

Attribute	Value
• bracketTierMaximum	500,000 YD
• bracketTierMinimum	100,000 YD
<b>ConditionTargetEntity</b>	
• CatalogueItemReference	
o gtin	06110123456784
o dataSource	0012345000010
o targetMarketCountryCode	US
<b>ItemDepictionQualifier</b>	
<b>ItemPriceType</b>	
• alternateLocationGrouping	72436437
• distributionMethodCode	CD
• priceActionCode	ADD
• priceActionReason	NI
• priceTargetMarketSubdivision	US-CA
• priceTypeApplicationSequence	1
• priceTypeCode	INTRODUCTORY_PRICE
• priceTypeLastChangedDateTime	2007-01-10T12:00:01.000
• shipFrom	0012345000011
• shipTo	0056345000025
• suggestedUnitRetailPrice	30.00 USD
• priceBasisQuantity	100 YD
• priceValue	10.00
• priceValueQualifier	MONETARY_AMOUNT
• priceValueType	VALUE
<b>priceTypeEffectiveStartDate</b>	
• effectiveStartDateTime	2006-01-10T12:00:01.000
• effectiveStartDateContextCode	FIRST_DELIVERY_DATE
<b>ReferenceDocumentationInformation</b>	
• referenceDocumentIdentifier	123232334334
• referenceDocumentDescription	Contract dated 2006-07-01
<b>PricePerformanceRequirementInformation</b>	
• performanceRequirementEndDateTime	2007-01-10T12:00:01.000
• performanceRequirementOption	INSERT
• performanceRequirementStartDateTime	2006-01-10T12:00:01.000
<b>targetPriceType</b>	
o uniqueCreatorIdentification	WG-000005
o contentOwner	0012345000010
<b>itemPriceTypeSegmentation</b>	

Attribute	Value
- entityIdentification	20051101
PartyIdentification (contentOwner)	
- gln	8712345678913

Attribute	Value
<b>PriceSynchronisationConfirmation</b>	
• dataRecipient	0012345000010
• dataSource	0056345000022
• priceSynchronisationDocumentIdentification	
- entityIdentification	20051101
PartyIdentification (contentOwner)	
- gln	8712345678913
• priceSynchronisationConfirmationIdentification	
- entityIdentification	20051102
<i>PartyIdentification (contentOwner)</i>	
- gln	8712345678913
• priceSynchronisationRelationshipIdentification	
- entityIdentification	20051103
<i>PartyIdentification (contentOwner)</i>	
- gln	8712345678913
PriceSynchronisationSegmentConfirmation	
○ priceSynchronisationConfirmationStatus	REVIEW
• priceSynchronisationRelationshipIdentification	
- entityIdentification	20051103
<i>PartyIdentification (contentOwner)</i>	
- gln	8712345678913

## 6. Implementation Considerations

### 6.1.1. Bulk Update

Bulk updates are full updates to price lists that may occur annually or multi-annually. The full set of trade items list price is published with a new reference number. This update may include price increase, price decrease, unchanged prices or new prices.

This price change is managed globally by the retailer.

There is a need to group the full list of published prices from a trading partner on a single price synchronisation document to be processed at the same time. When these prices are grouped on one single table, the retailer can perform multiple controls: comparison between the new and the previous list prices, weighting of the global price change, identification of the gaps in the list of trade items between previous and new price lists. A bulk update can serve as a trigger for these activities.

Data recipient activity in relation to bulk updates will be triggered by isBulkUpload flag located in the condition and price segments.

### 6.1.2. Initial Load

Initial Load is defined as sending any pricing information for the first time for items that have already been communicated between trading partners via GDSN; after that, all pricing information sent through the GDSN will be an Add, CHANGE\_BY\_REFRESH, Correct, or Delete.

- Initial load can happen by data recipient territory or data source categories.
- There may be multiple initial loads until entire Catalogue is synchronized.

The initial load is not used to signify pricing for a new Catalogue Item

- A “new catalogue item” should be indicated in the Reason for Price Change attribute)
- Price messaging requirements

#### First Initial Load

- Price Document ID must = 1
- Price Document Type must = “Initial Load”
- All segments must be ADDs
- No dependency checks are performed on the confirmation status codes for any segments

#### Subsequent Initial Load (for different product types, etc.)

- Price Document ID must be > 1
- All price message segments must be ADDs
- Dependency checks must be performed
- Source Data Pool sends the entire price message to the data recipient
- Subsequent messages must have all confirmation status validation rules applied

If Price document Type = “Resend” the Initial Load validation rules are bypassed.

#### Relationship Segment

- No Response
  - Can continue Initial Load on any segment
- Received/Synchronized/Review
  - Can take modifications on any segment
  - Depends upon individual segment status

#### Condition Segment

- No Response stops modifications on this and any price type(s) that refer to this condition
- Can still continue an Initial Load of any other price types

### 6.1.3. Resend

Resend is to recover a lost or missing message only

- File level request
- Price Document Type = “Resend”
- Source Data Pool will send an exact copy of Price Document ID that is requested
- The original Price document will not have a Price Document ID Type
- Source Data Pool will need to change Price Document ID Type to “Resend”.
- No additional dependency checks are performed
- The sync list is updated with the new transmission date.

### 6.1.4. Reload

Reload is a request to "start over" by sending all current and future pricing

- It is a relationship level request
- Price Document Type = “Reload”
- Synchronisation Header Action Code = ADD
- Relationship segment can be resent as ADD
- All price message segment action codes must be ADD
- Document ID will be 1
- No dependency checks are performed

### 6.1.5. Restart

RESTART Document Type is used to ‘restart’ pricing for an item the retailer has previously rejected pricing for. "The RESTART synchronization applies to Price Types; note that condition segments cannot be restarted (since they are not at a single GTIN level) and do not apply to this document type.

This is an item level request submitted by the supplier at the request of the retailer. Restart is relationship specific. Therefore, RESTART does not span across multiple retailers or suppliers. Likewise, if the rejected prices span more than 1 price relationship for the requesting retailer, separate restart requests must be submitted for each item / price relationship.

The supplier is responsible for re-synching all price types (active and future) for the given item and price relationship via the SDP. Given price synchronization has stopped for rejected price types, the SDP will not restart any price types for the specific item and price relationship without the supplier providing full information for each price type to be restarted.

**SDP:**

1. Applies price type updates which include performing dependency checks for each price type segment received from the supplier as part of the RESTART request.
2. Resets price confirmation responses to initial default value for each price type being restarted. This is the only method a retailer has to reset a 'REJECT' response.
3. Sends price synchronization message containing the price type segments only (does not affect conditions) related to the item being restarted:
  - Price Document Type = 'RESTART'
  - Synchronisation Header Action Code = 'CHANGE\_BY\_REFRESH'
  - All price message segment action codes = 'ADD'
  - Document ID is next sequential document ID pertaining to this retailer and price relationship (do not restart to 1)

**RDP:**

1. Receives the RESTART price message containing the restarted price type updates.
2. Resets price confirmation responses to initial default value for each price type being restarted.
3. Forwards RESTART price message onto the targeted recipient.

**Recipient:**

1. Receives 'RESTART' price message
2. Replaces all existing price types for the item / price relationship with those received. Any old pricing for the item / price relationship not received as part of the RESTART price message should be inactivated to ensure that the recipient only maintains the current state of pricing for this item / price relationship.

## 6.2. Price Sequencing Rules

### 6.2.1. Item Price Types

1. All Price Types must have an Application Sequence assigned.
2. All Allowances & Charge Price Types must be calculated before applying any Summary Conditions.
3. The Target Price, referenced in the Allowance or Charge Price Type becomes the starting point for the net invoice calculation.
4. All Price Types, other than Price Types = 'Allowance' or 'Charge', must be assigned an Application Sequence = 1.
5. Price Types = 'Allowance' or 'Charge' must be assigned an Application Sequence >1.
6. If Application Sequence = 2 the calculation is derived from the relevant price with Application Sequence = 1.

7. If Application Sequence is >2 the calculation is derived from the prior subtotal.
8. The same Application Sequence # can be applied to more than one Price Type associated with the item. If this is the case, and the Price Type was either an allowance or a Charge, the allowance or charge would be applied to the same prior subtotal.
9. Application Sequence #'s for price types may not always be in a continuous numerical sequence i.e. there may be missing sequence #'s. For example 1,3,4. Therefore you would simply go to the next highest number in the sequence. However there must be at least one Price Type with an Application Sequence = 1.
10. Price types need to be grouped and applied in numerical sequence starting with Application Sequence = 1.

### 6.2.2. Summary Conditions

1. Only Condition Type = 'Allowance' or 'Charge' would have an Application Sequence assigned.
2. Application Sequence = 1 is not a valid Application Sequence for Summary Conditions.
3. Summary Conditions can only be applied to the calculation after all Allowance & Charge Price Types have been applied to the calculation of the net invoice price.
4. If Application Sequence = 2 the calculation is derived from the Starting Prices on the invoice.
5. If Application Sequence = 3 the calculation is derived from the item subtotals of the items.
6. If Application Sequence is >3 the calculation is derived from the prior subtotal.
7. The same Application Sequence # can be applied to multiple summary conditions. If this is the case, the conditions would be applied to the same prior item subtotal or subtotal as applicable.
8. Application Sequence #'s for Summary Conditions may not always be in a continuous numerical sequence i.e. there may be missing sequence #'s. For example 1, 3, 4. Therefore you would simply go to the next highest number in the sequence.
9. Summary Conditions need to be grouped and applied in numerical sequence starting with Application Sequence =1.

### 6.3. Communicating Multiple Catalogue Item Qualifiers

#### Catalogue Item a

- Price Type: 100 \$10 Bracket 1
- Price Type: 101 \$10 Bracket 1
- Price Type: 102 \$10 Bracket 1
- Price Type: 200 \$10 Bracket 1 Target Price Type=100
- Price Type: 201 \$10 Bracket 1 Target Price Type=102
- Price Type: 202 \$10 Bracket 1 (not populated = all items)

#### Catalogue Item b

- Price Type: 100 \$10 Bracket 1
- Price Type: 101 \$10 Bracket 1
- Price Type: 102 \$10 Bracket 1

- Price Type: 200 \$10 Bracket 1 Target Price Type=100
- Price Type: 201 \$10 Bracket 1 Target Price Type=102
- Price Type: 202 \$10 Bracket 1 (not populated = all items)

Catalogue Item c

- Price Type: 100 \$10 Bracket 1
- Price Type: 101 \$10 Bracket 1
- Price Type: 102 \$10 Bracket 1
- Price Type: 200 \$10 Bracket 1 Target Price Type=100
- Price Type: 201 \$10 Bracket 1 Target Price Type=102
- Price Type: 202 \$10 Bracket 1 (not populated = all items)

## 6.4. Price Commentary

~~Need addition of code value PRICE\_COMMENTARY to codelist special scenario (MP06) + add validation rules for Multiple Price:~~

A price commentary may be entered for all parent price types with an application sequence of 1. This rule explicitly excludes the following price types:

- ALLOWANCE
- CHARGE

The same price type must not be present in the parent price and commentary price. For example you cannot have a List Price in both the parent and commentary.

There must not be repeating prices of the same type in the commentary. For example, you cannot have two transactional prices within the commentary.

The use of commentary price should be managed at relationship level using the special scenario code of "Commentary Price".

The Catalogue Price Confirmation will determine when a price is acceptable.

There will be no validation rules against the special scenario code.

~~Note: The Price Commentary class has been removed from the Price Synchronisation message. In order to send price commentary information you should instead use the flexible extension documented in the following guide: [GDSN-Flexextend-ImpGuide](#) .~~

~~Note: The best practice is to send a "commentary price" as a special scenario code when sending a commentary price.~~

~~If commentary exists but no special scenario code is sent, this can be handled by the data recipient with a confirmation status of Review.~~

### 6.7.6.5. Special Scenario Code

The Special Scenario Code List is a code list containing special price synchronisation scenarios that may be prevalent in certain target markets based on regional business practices or regulations. This list is used to trigger special processing by the data source and/or data recipient based on the needs of a scenario.

### 6.7.1.6.5.1. Resynchronisation of All Price Types for Pricing Done at the Lowest Level Consumer Unit

This scenario uses the NO\_ACTION code for handling regional legal requirements for pricing to be done at the lowest level consumer unit.

In this scenario, the retailer can know the price of the product for ordering only once they have pricing for all the lowest level consumer units. When pricing changes, a retailer needs to understand when they can order the product. In this scenario, where pricing is done at the lowest level consumer unit, the retailer requires the synchronization of ALL pricing components of the ordering product (identified through the use of the Parent Catalogue Item attribute) when one or more component changes. Those that have new / changed pricing will use an action code of Add or Change. Those that have not changed need to be resynchronized with action code of NO\_ACTION.

## 6.6. Target Market Information Provider

Target market information provider allows information providers to send the name and party identification of the local information provider of a price. To provide this information use targetMarketInformationProviderName and/or targetMarketInformationProviderPartyIdentification.

## 7. Appendices

Not Applicable

## 8. Summary of Changes

Change	BSD Version	Associated CR Number
<ul style="list-style-type: none"> <li>Updated version number and date</li> <li>Updated all use case diagrams in document to be in line with Modelling Methodology for Major Release 3</li> <li>Removed Rate From ComponentValueTypeCode</li> <li>Changed PriceSynchronisationConfirmationStatusCode to SynchronisationConfirmationStatusEnumeration</li> <li>Changed attribute name in ConditionTargetEntity to the priceSynchronisationCondition class to gpcCategoryCode.</li> </ul>	1.3.1	n/a
<ul style="list-style-type: none"> <li>Corrected typo in distributionMethodCode</li> <li>Added avpList association into ItemDepictionQualifier, PriceSynchronisationRelationship, PriceSynchronisationCondition.</li> <li>Corrected document status in cover and footers.</li> <li>Changed entity identification to top level for all classes.</li> </ul>	1.3.2	n/a
<ul style="list-style-type: none"> <li>PriceSynchronisationDocument: Changed priceDocumentTypeCode to priceDocumentType.</li> <li>PriceSynchronisationSegmentConfirmation: Changed priceSynchronisationConfirmationStatusCode to priceSynchronisationConfirmationStatus</li> <li>ItemPriceType: Moved Extension to last attribute (before AVPList)</li> <li>ItemPriceType: changed priceValueTypeCode to</li> </ul>	1.3.3	

Change	BSD Version	Associated CR Number
priceValueType <ul style="list-style-type: none"> <li>• ItemPriceType: Changed data type for AVPList</li> <li>• PricePerformanceRequirementInformation: Changed performanceRequirementOptionCode to performanceRequirementOption</li> <li>• PriceSynchronisationCondition: changed datatype for AVPList</li> <li>• PriceSynchronisationRelationship: changed datatype for AVPList</li> <li>• PriceSynchronisationRelationship: changed relationshipTradeChannelCode to relationshipTradeChannel</li> </ul>		
<ul style="list-style-type: none"> <li>• Removed line numbers</li> <li>• Changed from "Draft" to "Issue"</li> </ul>	1.3.4	
<ul style="list-style-type: none"> <li>• <u>Replaced the status of Accept to RECEIVED throughout the document since ACCEPT has been replaced by RECEIVED for 3.1.</u></li> <li>• <u>Changed all the references to the status codes in the document to all caps to match code value.</u></li> <li>• <u>Clarified section 6.4 eliminating the suggested need to send a Special Scenario Code.</u></li> <li>• <u>Changed Rule 9 in UC-11 regarding the use of Price Type Segment Action code of Delete.</u></li> <li>• <u>Added targetMarketInformationProviderName and targetMarketInformationProviderPartyIdentification to PriceSynchronisationDocument</u></li> <li>• <u>Added comments into model and section 6.4 stating that the Price Commentary class should not be used to send price commentary information.</u></li> <li>• Deleted the association to the PriceCommentary Class from ItemPriceType. Deleted class.</li> <li>• Fixed link in section 6.4</li> </ul>	1.3.5	