Business Message Standard (BMS)

Price Synchronisation

BMS Release: 3.1.21, SMG Name: GDS

Issue 1.3.7, 21-Julyl-2022

Document Summary

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Change Request Reference

CR Submitter(s):	Refer to Change Request (CR) Number(s):
Tom Heist for RDD Team	05-000250
GS1 Australia	08-000199
GS1 France	07-000414
Olivier Mouton, Carrefour	07-000329
Sara Novak, SA2	07-000386
Olivier Mouton, Carrefour	07-000414
Leon Plaksin, GS1 Australia	10-000065
Julien Matsis GS1 New Zealand	14-000147
Steve Robba 1Worldsync.	15-000061
Steve Robba, 1WorldSync	16-000327
Steve Robba, 1WorldSync	16-000390

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

Date of Change	Version	Changed By	Reason for Change	Summary of Change
22-March-2012	1.3.0	Mark Van Eeghem	Major Release 3 of GDS	See Summary of Changes

Date of Change	Version	Changed By	Reason for Change	Summary of Change
4-July-2012	1.3.1	Mark Van Eeghem	Major Release 3 of GDS	See Summary of Changes
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
5-Aug-2013	1.3.4	Mark Van Eeghem	Clean-up for Publication	See Summary of Changes
28-Feb-2017	1.3.5	Eric Kauz	3.1.3 Release	See Summary of Changes
23-May-2017	1.3.5	Eric Kauz	Updated link to Price Commentary Documentation (Sec 6.4)	See Summary of Changes
22-Oct-2019	1.3.6	Radhika Chauhan	Added two new codes to the Price Type Code list	See Summary of Changes
11-Apr-2022	1.3.7	Maryam Mirza	3.1.21 Release	See Summary of Changes
21-July-2022	1.3.7	Maryam Mirza	3.1.21 Release Final version	See Summary of Changes

Disclaimer

Table of Contents

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

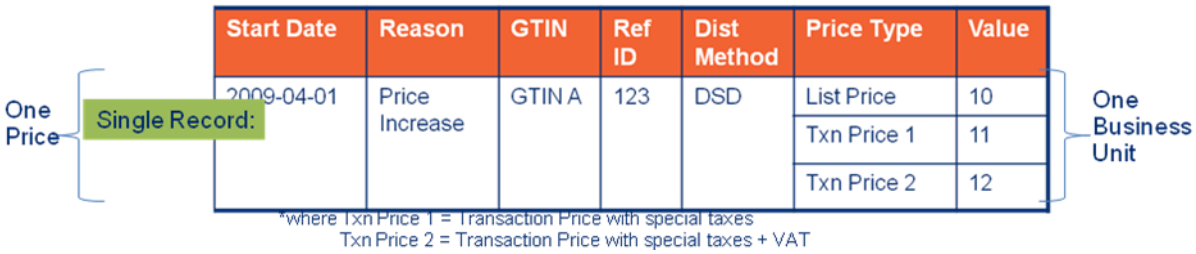
"accommodates all the different pricing business practices and facilitates an invoice amount equal to the expected payment amount equal to the actual payment".

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



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.

1.5.1. SMG Work Group

Function	Name	Company / organisation
SMG Chair	Scott Brown	GS1 US
SMG Co-Chair	Robin Kidd	Nestle
SMG Co-Chair	Steve Robba	SA2
Process Manager	Justin Childs	GS1 Global Office
SMG Member	Vanessa Frosch	1SYNC
SMG Member	Steve Vazzano	1SYNC
SMG Member	Donna Yeksigian	1SYNC
SMG Member	Rita Joyce	3M Company
SMG Member	Jon Peterson	3M Company
SMG Member	Cynthia Poetker	Abbott Laboratories Inc.
SMG Member	Marcel Yska	Ahold (Netherlands)
SMG Member	Mickey Atkins	Ahold (USA)
SMG Member	Frank Heemelaar	Albert Heijn
SMG Member	Armand Schins	Albert Heijn
SMG Member	Tom Eric Schmidt	August Storck KG
SMG Member	Alasdair Garbett	Autogrill Retail UK Ltd t/a WDF
SMG Member	Sara Halfmann	Best Buy Co., Inc.
SMG Member	Bekki Windsperger	Best Buy Co., Inc.

Function	Name	Company / organisation
SMG Member	Maureen Wissel	Best Buy Co., Inc.
SMG Member	Ed Jesus	Chep
SMG Member	James Sykes	Chep
SMG Member	Alison Bartlet	Commport Communications Int'l Inc.
SMG Member	Nadine Radomski	Dean Foods Company
SMG Member	Norbert Roehl	Edeka Zentrale AG & Co. KG
SMG Member	Patrick Roy	FSE, Inc.
SMG Member	Rajiv Singh	Garud Technology Services Inc
SMG Member	Carol Edison	General Mills, Inc.
SMG Member	Joy Schneck	General Mills, Inc.
SMG Member	Ardetha Bradley	Georgia Pacific
SMG Member	Milan Vacval	Gladson Interactive
SMG Member	Mitch Fortier	GS1 Australia
SMG Member	Justin Middleton	GS1 Australia
SMG Member	Sue Schmid	GS1 Australia
SMG Member	Stephan Wijnker	GS1 Australia
SMG Member	Eugen Sehorz	GS1 Austria
SMG Member	Kristel Lai	GS1 Canada
SMG Member	Rita Laur	GS1 Canada
SMG Member	Reza Mahdiani	GS1 Canada
SMG Member	Natalia Yusseem	GS1 Canada
SMG Member	Giovanni Biffi	GS1 Colombia
SMG Member	Eddy Merrill	GS1 Community Room Staff
SMG Member	Mike Mowad	GS1 Community Room Staff
SMG Member	Pertti Hakala	GS1 Finland
SMG Member	Jean-Luc Leblond	GS1 France
SMG Member	Patricia Perrier	GS1 France
SMG Member	Roman Strand	GS1 Germany
SMG Member	Tanja Thomsen	GS1 Germany
SMG Member	János Gyuris	GS1 Hungary
SMG Member	Krisztina Vatai	GS1 Hungary
SMG Member	Dani Yusdiar	GS1 Indonesia
SMG Member	Siobhain Duggan	GS1 Ireland
SMG Member	Stefan Gathmann	GS1 Ireland
SMG Member	Brendan Kernan	GS1 Ireland
SMG Member	Andrea Ausili	GS1 Italy
SMG Member	Federico Mittersteiner	GS1 Italy
SMG Member	Hideki Ichihara	GS1 Japan
SMG Member	Carlos Ramos	GS1 Mexico

Function	Name	Company / organisation
SMG Member	Gabriel Sobrino	GS1 Netherlands
SMG Member	Fiona van der Linde	GS1 South Africa / Consumer Goods Council of South Africa
SMG Member	Xavier Pujol	GS1 Spain
SMG Member	Pere Rosell	GS1 Spain
SMG Member	Peter Jönsson	GS1 Sweden
SMG Member	Staffan Olsson	GS1 Sweden
SMG Member	Mats Wennebo	GS1 Sweden
SMG Member	Richard Chresta	GS1 Switzerland
SMG Member	Thanh Reichen	GS1 Switzerland
SMG Member	Neil Gray	GS1 UK
SMG Member	Shan Welch	GS1 UK
SMG Member	Rich Richardson	GS1 US
SMG Member	Steven Rosenberg	GS1 US
SMG Member	Tracey Davies	GXS (UK)
SMG Member	Joanna Stewart	GXS (US)
SMG Member	Kathrin Kiesel	Henkel AG. & Co. KGaA
SMG Member	Rob Hoffman	Hershey Company (The)
SMG Member	Christine Nye	Hershey Company (The)
SMG Member	Eric Ginsburg	HJ Heinz
SMG Member	Sylvia Rubio Alegren	ICA AB
SMG Member	Thomas Werthwine	Johnson & Johnson
SMG Member	Betty Tyson	Knouse Foods Cooperative, Inc
SMG Member	Leslie Henderson	Kraft Foods, Inc.
SMG Member	Barbara Munro	Kraft Foods, Inc.
SMG Member	Ryan Richard	Kraft Foods, Inc.
SMG Member	Jillian Wille	Kraft Foods, Inc.
SMG Member	Robert West	L'Oreal
SMG Member	Denton Clark	Lockheed Martin
SMG Member	Hanjoerg Lerch	METRO Group
SMG Member	Véra Feuerstein	Nestle
SMG Member	Joseph Bohning	Nestle Purina PetCare
SMG Member	Greg Buckley	PepsiCo, Inc.
SMG Member	Gina Tomassi	PepsiCo, Inc.
SMG Member	Noam Bronstein	Procter & Gamble Co.
SMG Member	Jonathan Bemrose	R&R Ice Cream
SMG Member	Sascha Kasper	SA2 Worldsync GmbH
SMG Member	Selcuk Ovuc	SA2 Worldsync GmbH
SMG Member	Ute Trelle	SA2 Worldsync GmbH
SMG Member	Felix Loecher	SAP AG

Function	Name	Company / organisation
SMG Member	Maxim Stafeyev	SKB Kontur
SMG Member	Greg Zwanziger	SUPERVALU
SMG Member	John Fitzpatrick	Syncnicity for US Department of Defense
SMG Member	Jason Lavik	Target Corporation
SMG Member	Phyllis Koch	The Schwan Food Company
SMG Member	Werner Kolb	Unilever N.V.
SMG Member	Audrey Wiggins	Wal-Mart Stores, Inc.
SMG Member	Mac Young	Waldo County General Hospital
SMG Member	Kristin Andersen	Wegmans Food Markets
SMG Member	Jan Jaworski	Wilton Industries, Inc.

1.5.2. Design Team Members

Function	Name	Organisation
Standards Content Lead	Mark Van Eeghem	GS1
Technical Development Lead	Ewa Iwicka	GS1
Peer Review	Eric Kauz	GS1

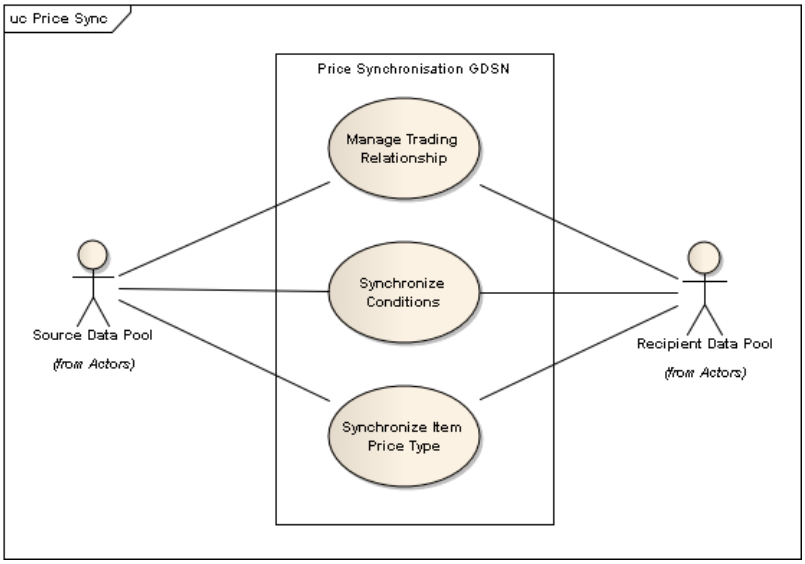
2. Business Context

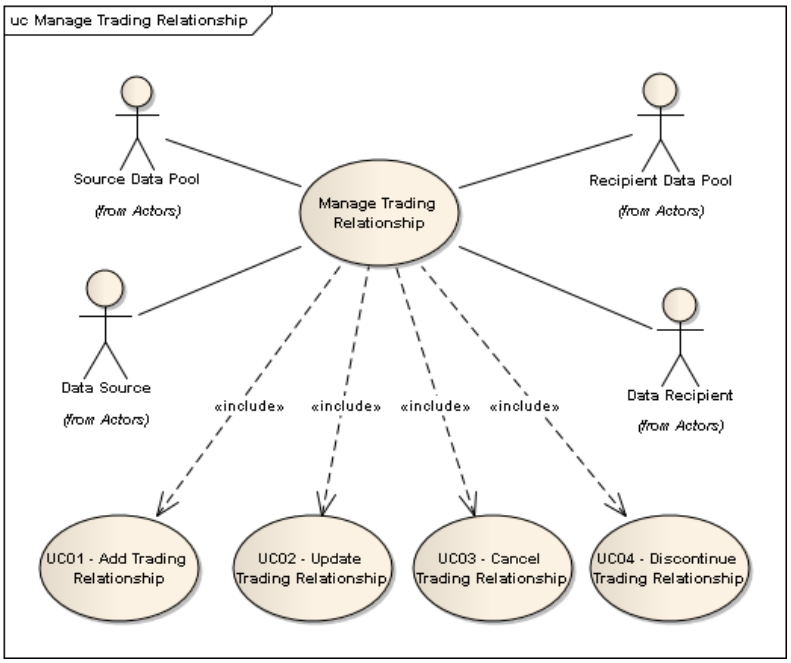
Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	GDSN
System Capabilities	GS1
Official Constraints	None

3. Business Transaction View

3.1. Use Case Definitions – Add Trading Relationship

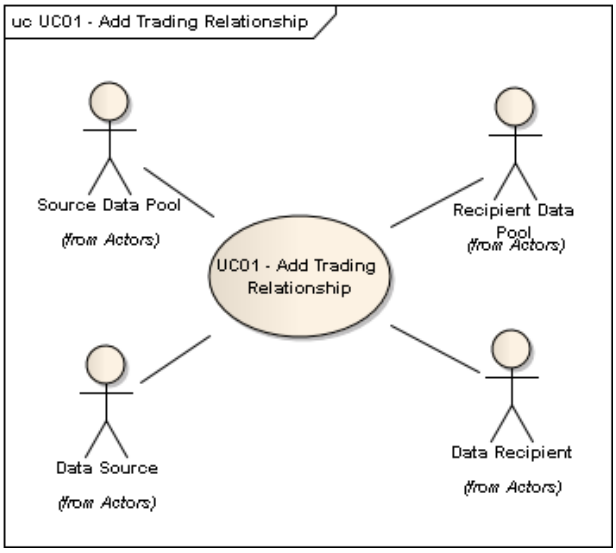
Figure 3-1 Use Case Diagram: Price Synchronisation GDSN





3.2. Add Trading Relationship

Figure 3-2 Add Trading Relationship Use Case Diagram



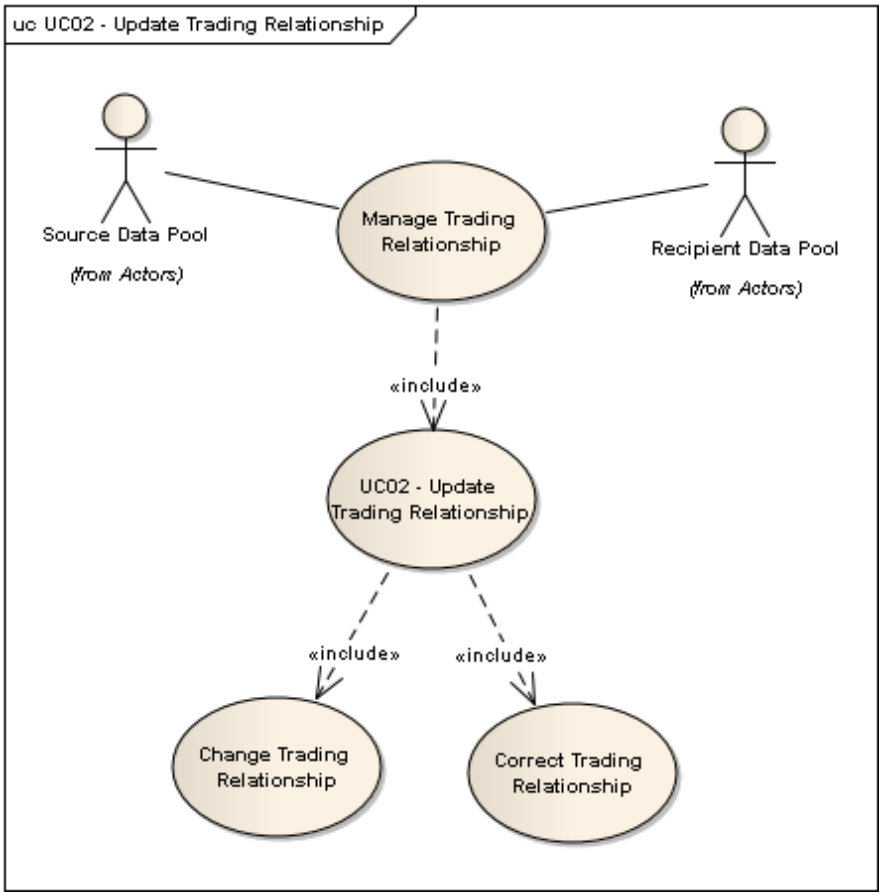
Use Case ID	UC-1
Use Case Name	Add Trading Relationship
Use Case Description	This use case establishes a price synchronisation trading partner relationship.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Initiate a price synchronisation relationship.
Preconditions	Trading partners have established a trading partner agreement including price synchronisation relationships, agreed-to pricing conditions; and are engaged in item synchronisation.
Post conditions	Price synchronisation relationship is active.
Scenario	**Begins when**... 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). **Continues with**...

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.

	6 | SDP | Updates the price synchronisation list and sends confirmation information to the data source. **Ends when**... data source receives the confirmation response and the pricing synchronisation is active.
Alternative Scenario	*The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps* **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.
Related Requirements	Not Applicable
Related Rules	1. 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. 2. 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. 3. A price synchronisation relationship can have only one active relationship segment at a time. 4. If the Document Header is "ADD", the Price Document ID must = "1" 5. When relationship action document header equals "add", there are no dependency checks. 6. The data recipient can override a previous confirmation status with another one through a confirmation response. 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'. 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. 8. Reason code is conditional on the confirmation status being "Review". If reason code is present, ensure that confirmation status in "Review".

3.3. Update Trading Relationship

Figure 3-3 Update Trading Relationship Use Case Diagram



Use Case ID	UC-2
Use Case Name	Update Trading Relationship
Use Case Description	This use case maintains the price synchronisation trading partner relationship through either modifications or corrections to the relationship data.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	To update the price synchronisation relationship.
Preconditions	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.
Post conditions	Price synchronisation relationship is updated.

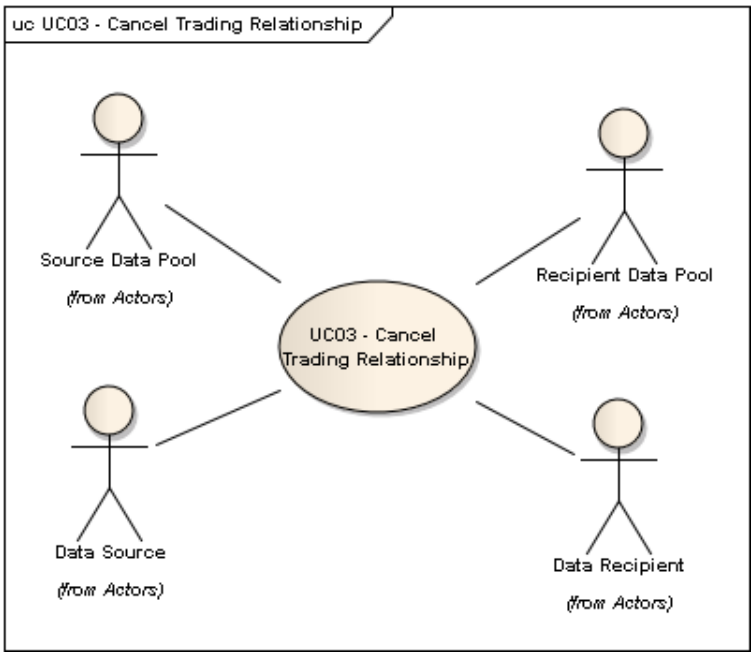
<table>
<tr><td>Scenario</td><td>
Begins when...The data source notifies their SDP of updates to a trading relationship (done outside of the network).

Continues with...
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<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 a “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>
</table>
Ends when...data source receives the confirmation response.
</td></tr>
<tr><td>Alternative Scenario</td><td>
The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<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 RECEIVED. See related requirements below for status codes and their actions.</td></tr>
</table>
</td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
</table>

Related Rules	1. 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. 2. A confirmation status of “rejected” results in a data recipient initiated termination of the trading relationship. 3. If the Document Header is “CHANGE_BY_REFRESH”, the Price Document ID must be greater than “1” 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". 5. Relationship Start Effective Date can only be Corrected, not modified. 6. The data recipient can override a previous confirmation status with another one through a confirmation response. 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’. 8. Start Effective Date can be corrected if it is not yet in effect (future date). 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. 10. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”. 11. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.

3.4. Cancel Trading Relationship

Figure 3-4 Cancel Trading Relationship Use Case Diagram



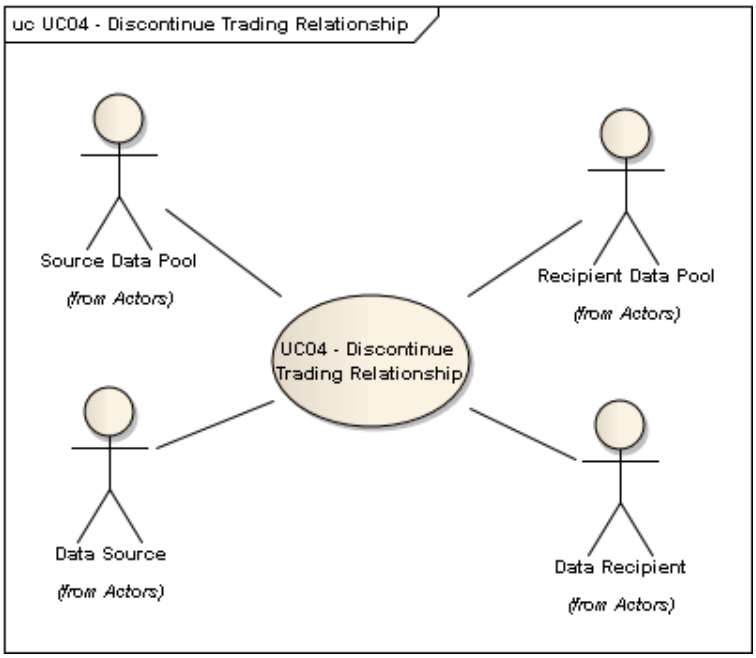
Use Case ID	UC-3
Use Case Name	Cancel Trading Relationship
Use Case Description	This use case terminates a specific price synchronisation trading partner relationship that has not yet taken effect.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	To terminate a price synchronisation relationship.
Preconditions	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.
Post conditions	Price synchronisation relationship is terminated.
Scenario	**Begins when**... The data source notifies their SDP of the need to terminate a trading relationship (done outside of the network). **Continues with**...

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.

	<table><tr><td>4</td><td>Data Recipient</td><td>Receives the trading relationship information and confirms the relationship by responding with a “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></table> **Ends when**... data source receives the confirmation response.
Alternative Scenario	*The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps* <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><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 RECEIVED. See related requirements below for status codes and their actions.</td></tr></table>
Related Requirements	Not Applicable
Related Rules	1. Confirmation status codes other than RECEIVED are: REVIEW– message received and no action taken yet; synchronized – message received and implemented into the backend system; REJECTED – message received and terms of a specific price message segment were rejected or the data recipient wishes to terminate the price synchronisation relationship. 2. 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. 3. If the Document Header is “CHANGE_BY_REFRESH ”, the Price Document ID must be greater than “1” 4. 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 5. 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. 6. 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). 7. Reason code is conditional on the confirmation status being “REVIEW”. If reason code is present, ensure that confirmation status in “REVIEW”. 8. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.

3.5. Discontinue Trading Relationship

Figure 3-5 Discontinue Trading Relationship Use Case Diagram

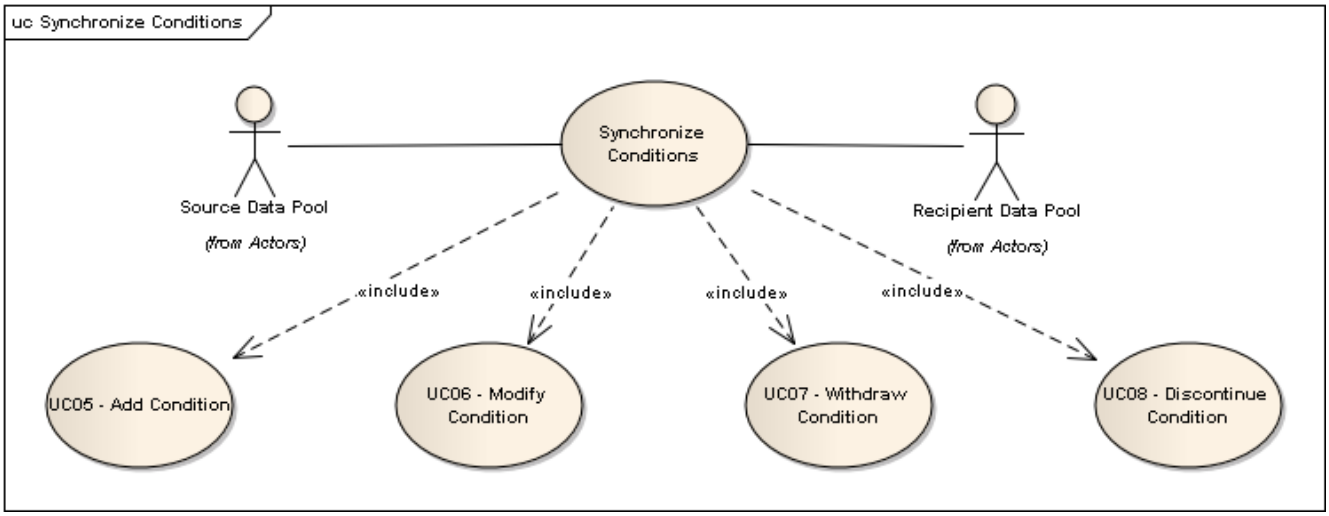


Use Case ID	UC-4
Use Case Name	Discontinue Trading Relationship
Use Case Description	This use case terminates a specific price synchronisation trading partner relationship that is currently in effect.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	To terminate a price synchronisation relationship.
Preconditions	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.
Post conditions	Price synchronisation relationship is discontinued.
Scenario	**Begins when**... The data source notifies their SDP of the need to discontinue a trading relationship (done outside of the network). **Continues with**...

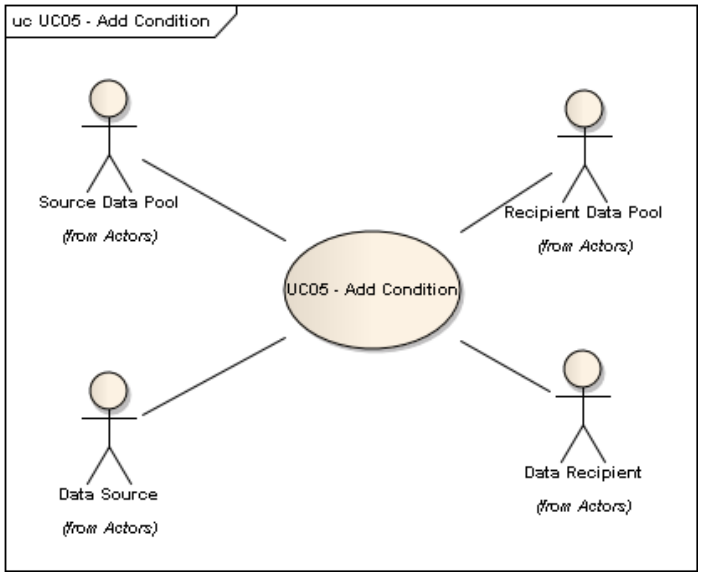
Step #	Actor	Activity Step
1	SDP	Performs validations.
2	SDP	Terminates the relationship by sending a price synchronisation message with a document command of “CHANGE_BY_REFRESH” with a relationship section action code of “CHANGE_BY_REFRESH” to the RDP and a populated relationship end effective date.

	<table><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 change by responding with a “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></table> **Ends when**... data source receives the confirmation response.
Alternative Scenario	*The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps* <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><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 RECEIVED. See related requirements below for status codes and their actions.</td></tr></table>
Related Requirements	Not Applicable
Related Rules	1. Confirmation status codes other than RECEIVED are: REVIEW – message received and no action taken yet; synchronized – message received and implemented into the backend system; REJECTED – message received and terms of a specific price message segment were rejected or the data recipient wishes to terminate the price synchronisation relationship. 2. 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. 3. If the Document Header is “CHANGE_BY_REFRESH”, the Price Document ID must be greater than “1” 4. 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. 5. 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. 6. 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). 7. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”. 8. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.

3.6. Synchronise Conditions



3.7. Add Condition



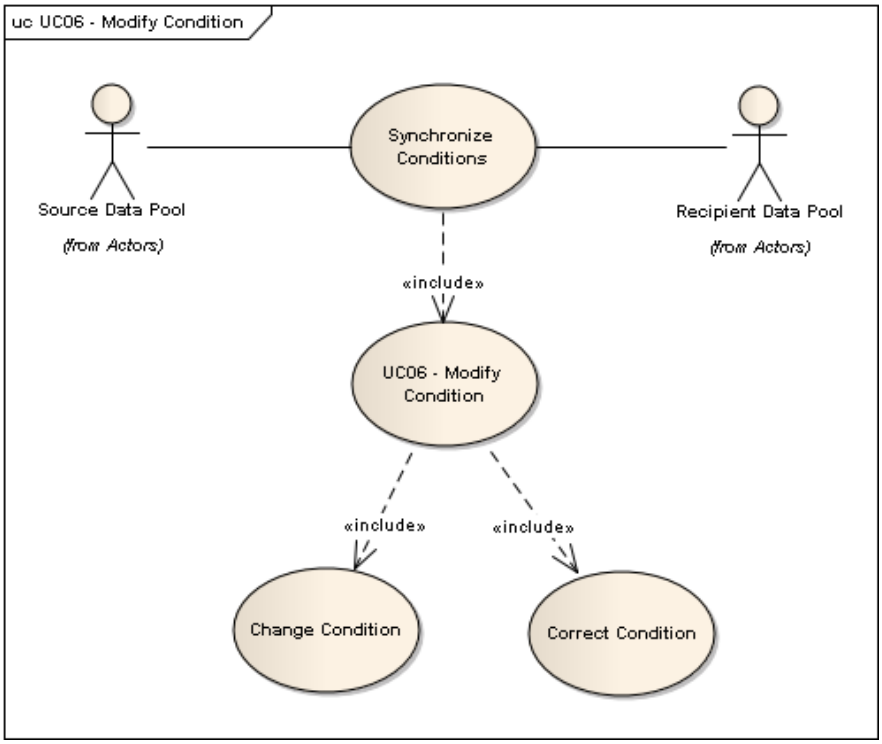
Use Case ID	UC-5
Use Case Name	Add Condition
Use Case Description	This use case establishes non-line item conditions and summary conditions.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Establish conditions for price synchronisation.
Preconditions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

<table>
<tr><td>Scenario</td><td>
Begins when... The data source notifies their SDP of price components to be added for a relationship (done outside of the network).

Continues with...
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<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 “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>
</table>
Ends when... conditions and bracket qualifiers (as needed) have been synchronized.
</td></tr>
<tr><td>Alternative Scenario</td><td>
The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.</td></tr>
</table>
</td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
<tr><td>Related Rules</td><td>
1. When condition type equals bracket the bracket sub-section is used to identify the bracket qualifiers.
2. Header segment is mandatory and must be sent with this message.
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.
4. If there has been no response to relationship segment, the condition segment is still sent to the data recipient.
5. Cannot send condition if relationship has been rejected.
6. If the Condition Segment is sent in the first price message establishing the trading relationship, the Document Header Command = ADD.
7. If the Condition Segment is sent after establishing the trading relationship, the Document Header Command = CHANGE_BY_REFRESH.
8. If Document Header Command = ADD, then Price Document ID must = “1”.
9. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.
10. Confirmation status codes other than RECEIVED are: REVIEW – message received and no action taken yet; SYNCHRONISED – message received and implemented into the backend system. If no response is made the SDP will stop price synchronisation.
11. Confirmation Statuses (assumes one response per condition)
• Received
• Review
• Synchronised
</td></tr>
</table>

	• 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

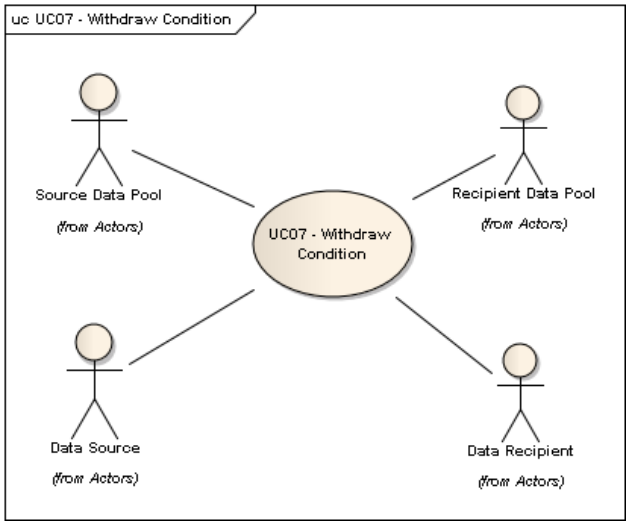


Use Case ID	UC-6
Use Case Name	Modify Condition
Use Case Description	This use case modifies or corrects an existing non-line item conditions and summary conditions.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Change by refresh or correct conditions for price synchronisation.
Preconditions	Price synchronisation relationship exists and price component has been accepted by data source.
Post conditions	Condition has been modified.
Scenario	**Begins when**... The data source notifies their SDP of modifications to item depictions and/or any related price types. (Done outside of the network). **Continues with**...

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.

	<table><tr><td>4</td><td>Data Recipient</td><td>Receives the message and confirms the conditions by responding with a “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></table> **Ends when**... conditions and bracket qualifiers (as needed) have been modified.
Alternative Scenario	*The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps* <table><tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr><tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.</td></tr></table>
Related Requirements	Not Applicable
Related Rules	1. When condition type equals bracket the bracket sub-section is used to identify the bracket qualifiers. 2. Header segment is mandatory and must be sent with this message. 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. 4. If there has been no response to relationship segment, the condition segment is still sent to the data recipient. 5. Cannot send condition if relationship has been rejected. 6. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”. 7. Confirmation status codes other than RECEIVED are: REVIEW – message received and no action taken yet; SYNCHRONISED – message received and implemented into the backend system. 8. If no response is made the SDP will stop price synchronisation. 9. Condition Value Type cannot be modified. 10. Start Effective Date cannot be modified. 11. Start Effective Date can be corrected if it is not yet in effect (future date). 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. 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. Can’t send an update for a segment if the previous add/change by refresh/correct has had no response or has been rejected. 16. A confirmation Status of Rejected is not valid for conditions. 17. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”. 18. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.

3.9. Withdraw Condition

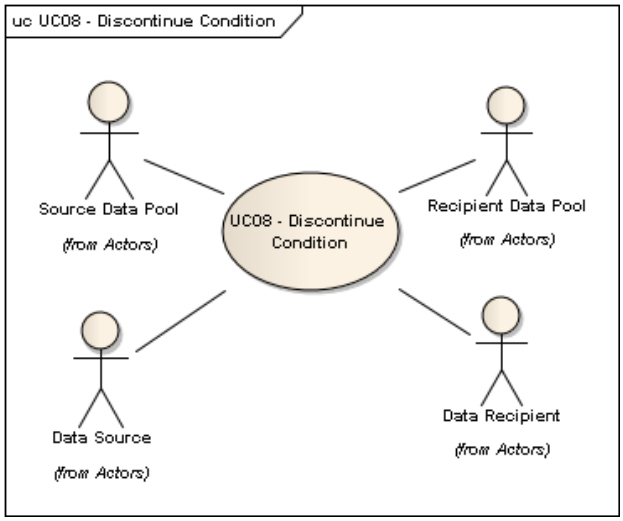


Use Case ID	UC-7
Use Case Name	Withdraw Condition
Use Case Description	This use case deletes an existing non-line item conditions and/or summary conditions prior to the effective start date of the condition.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Withdraw a condition for price synchronisation.
Preconditions	Price synchronisation relationship exists and price component has been accepted by data source.
Post conditions	Condition has been withdrawn.
Scenario	**Begins when**... The data source notifies their SDP of a need to withdraw a price component (done outside of the network). **Continues with**...

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 “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.

<table>
<tr><td></td><td>Ends when... conditions and bracket qualifiers (as needed) have been withdrawn.</td></tr>
<tr><td>Alternative Scenario</td><td>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
<tr><td>Related Rules</td><td>1. Header segment is mandatory and must be sent with this message.
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.
3. If there has been no response to relationship segment, the condition segment is still sent to the data recipient.
4. Cannot send condition if relationship has been rejected.
5. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.
6. A confirmation status of “REJECTED” is not valid for a withdraw.
7. No response means that no further synchronisation can occur.
8. The data recipient can override a previous confirmation status with another one through a confirmation response.
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’.
10. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”.
11. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.</td></tr>
</table>

3.10. Discontinue a Condition

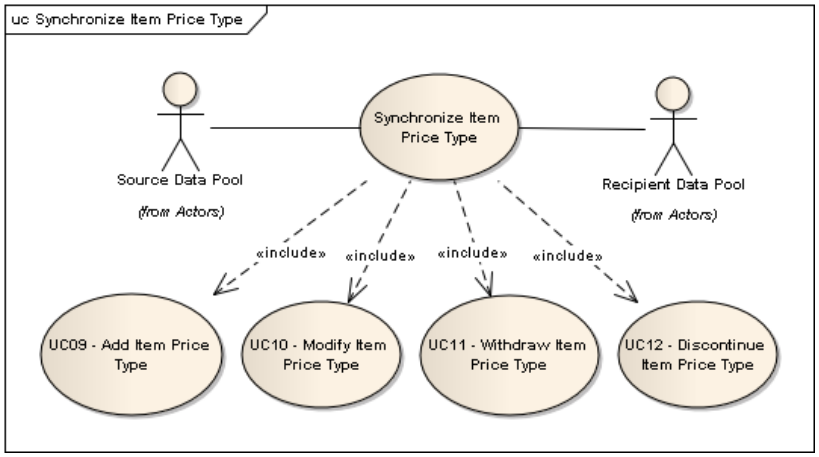


Use Case ID	UC-8
Use Case Name	Discontinue a Condition
Use Case Description	This use case discontinues an existing non-line item conditions and/or summary conditions that are already in effect.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Discontinues a condition for price synchronisation.
Preconditions	Price synchronisation relationship exists and price component has been accepted by data source.
Post conditions	Condition has been discontinue.
Scenario	**Begins when**... The data source notifies their SDP of a need to discontinue a price component. (Done outside of the network). **Continues with**...

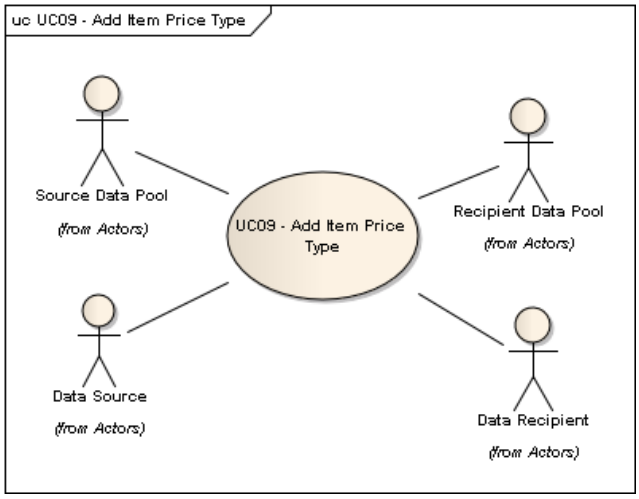
Step #	Actor	Activity Step
1	SDP	Performs necessary validations.
2	SDP	Creates a price synchronisation message using document command of “CHANGE_BY_REFRESH”, the condition segment with a segment action code of “CHANGE_BY_REFRESH” and an updated Condition End Effective Date to the RDP, indicates the condition 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 a “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.

<table>
<tr><td></td><td>Ends when... conditions and bracket qualifiers (as needed) have been discontinued.</td></tr>
<tr><td>Alternative Scenario</td><td>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Rules</td><td>1. Header segment is mandatory and must be sent with this message.
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.
3. If there has been no response to relationship segment, the condition segment is still sent to the data recipient.
4. Cannot send condition if relationship has been rejected.
5. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.
6. No response means that no further synchronisation can occur.
7. The data recipient can override a previous confirmation status with another one through a confirmation response.
8. 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’.
9. Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”.
10. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.</td></tr>
</table>

3.11. Synchronise Price Type



3.12. Add Item Price Type



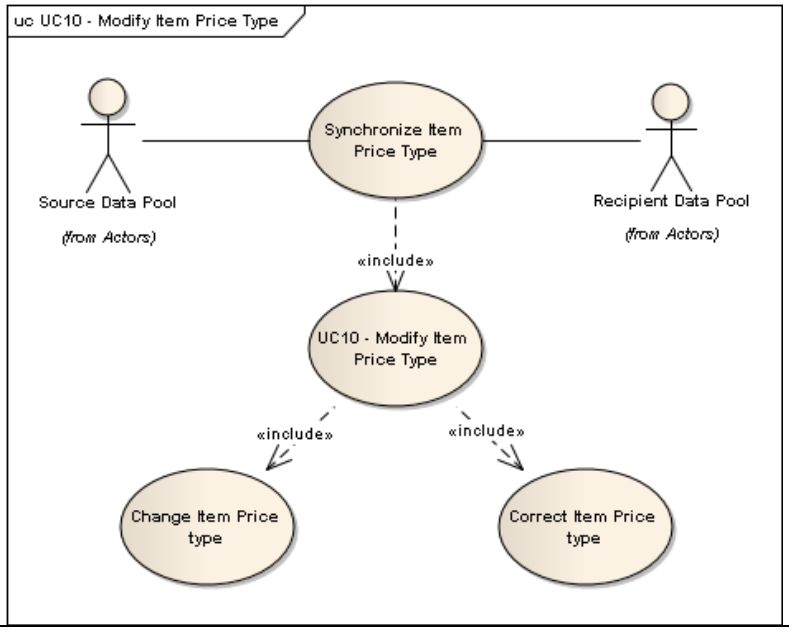
Use Case ID	UC-9
Use Case Name	Add Item Price Type
Use Case Description	This use case establishes an item depiction and any related price types.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Establish an item depiction and all related price types for price synchronisation.
Preconditions	Price synchronisation relationship has been established and price synchronisation is active.
Post conditions	Item Depictions and related price types are synchronized.
Scenario	**Begins when**... 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). **Continues with**...

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 “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.

<table>
<tr><td></td><td>Ends when... item Depictions and related price types have been synchronized.</td></tr>
<tr><td>Alternative Scenario</td><td>The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
<tr><td>Related Rules</td><td>1. The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.
2. Header segment is mandatory and must be sent with this message.
3. Relationship Segment and Condition Segment is not needed in a price synchronisation message to send Item Depiction and Price Type.
4. Cannot send Item Depiction and Price Type if the Trading Relationship has been rejected.
5. A targeted condition in the Item Price Type must have a prior confirmation status of RECEIVED, 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.
6. A targeted price type in the Item Price Type segment must have a prior confirmation status of RECEIVED, SYNCHRONISED 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.
7. Multiple Price Types may exist simultaneously for a Catalogue Item and each can have their own confirmation status
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.
9. If Document Header Command = ADD, then Price Document ID must = “1”.
10. Confirmation status codes other than RECEIVED are: REVIEW – message received and no action taken yet; SYNCHRONISED – 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.
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. At least one 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 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”.</td></tr>
</table>

	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



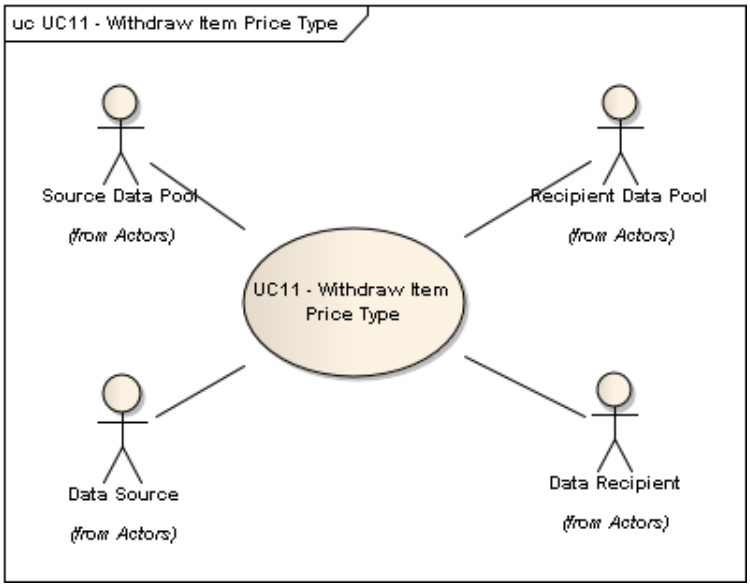
Use Case ID	UC-10
Use Case Name	Modify Item Price Type
Use Case Description	This use case modifies or corrects existing item depictions and/or any related price types.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Change by refresh or correct item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

<table>
<tr><td>Scenario</td><td>
Begins when... The data source notifies their SDP of modifications to price components (done outside of the network).

Continues with...
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<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 of “CHANGE_BY_REFRESH” for modification and “Correct” for a correction 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 a “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>
</table>
Ends when... the item depiction and price type segments have been modified.
</td></tr>
<tr><td>Alternative Scenario</td><td>
The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.</td></tr>
</table>
</td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
<tr><td>Related Rules</td><td>
1. Header segment is mandatory and must be sent with this message.
2. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.
3. Confirmation status codes other than RECEIVED are: REVIEW– message received and no action taken yet; SYNCHRONISED – 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.
4. Start Effective Date cannot be modified.
5. Start Effective Date can be corrected if it is not yet in effect (future date).
6. Cannot send Item Depiction and Price Type if the Trading Relationship has been rejected.
7. A targeted condition in the Item Price Type must have a prior confirmation status of RECEIVED, SYNCHRONISED 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.
8. A targeted price type in the Item Price Type segment must have a prior confirmation status of RECEIVED, SYNCHRONISED 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.
</td></tr>
</table>

	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



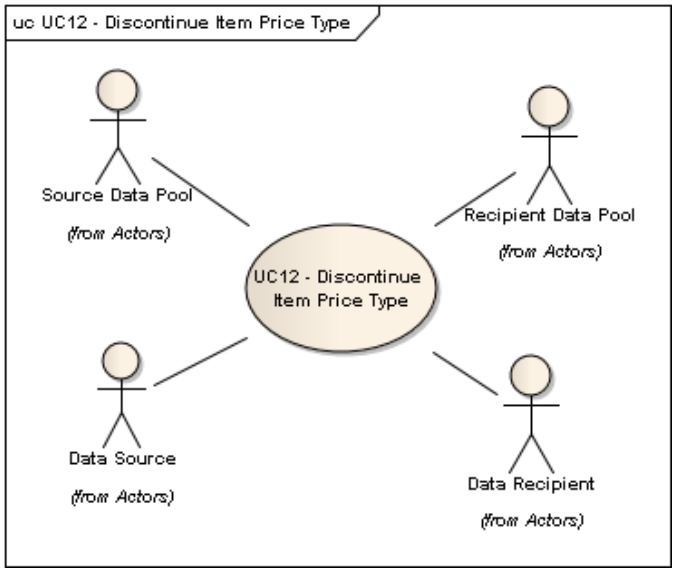
Use Case ID	UC-11
Use Case Name	Withdraw Item Price Type
Use Case Description	This use case deletes existing item depictions and/or any related price types prior to the effective start date of the price type.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance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

<table>
<tr><td>Scenario</td><td>
Begins when... The data source notifies their SDP of a need to withdraw item depictions and/or any related price types. (Done outside of the network).

Continues with...
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<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 “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>
</table>
Ends when... item depictions and/or any related price types have been withdrawn.
</td></tr>
<tr><td>Alternative Scenario</td><td>
The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps
<table>
<tr><th>Step #</th><th>Actor</th><th>Activity Step</th></tr>
<tr><td>3</td><td>Data Recipient</td><td>Data recipient responds with a confirmation status other than accept. See related requirements below for status codes and their actions.</td></tr>
</table>
</td></tr>
<tr><td>Related Requirements</td><td>Not Applicable</td></tr>
<tr><td>Related Rules</td><td>
1. Header segment is mandatory and must be sent with this message.
2. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.
3. A confirmation status of “REJECTED” is not valid for a withdrawal of a Price Type.
4. A confirmation status of “REVIEW” is not valid for a withdrawal or a Price Type.
5. No response means that no further synchronisation can occur.
6. Condition segment is not required.
7. Relationship segment is not required.
8. The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.
9. When the Item Price Type Segment Action Code = Delete (Parent Price Type)
• Must delete the parent Price Type and all children (targeted) Price Types for the Price Type being withdrawn.
• This deletes all price types associated with an item but not the item.
• Note: within the XML message, all child Price Types must be deleted prior to the parent Price Type.
10. When the Item Price Type Segment Action Code = Delete (Child Price Type)
• Must delete the individual child Price Type only and not the parent Price Type.
• This deletes the individual child price type associated with an item but not the item.
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.
</td></tr>
</table>

	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 '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. 13. For the Price Synchronisation Message, the Segment Action Code of "CHANGE_BY_REFRESH" assumes full refresh of the message segment only.

3.15. Discontinue Item Price Type



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

Scenario

Begins when... The data source notifies their SDP of a need to discontinue item depictions and/or any related price types. (Done outside of the network).

Continues with...

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.

Ends when... the item depiction and price type segments have been discontinued.

Alternative Scenario

The step #s below are related to the step #s in the scenario and are alternatives to the scenario steps

Step #	Actor	Activity Step
3	Data Recipient	Data recipient responds with a confirmation status other than RECEIVED. See related requirements below for status codes and their actions.

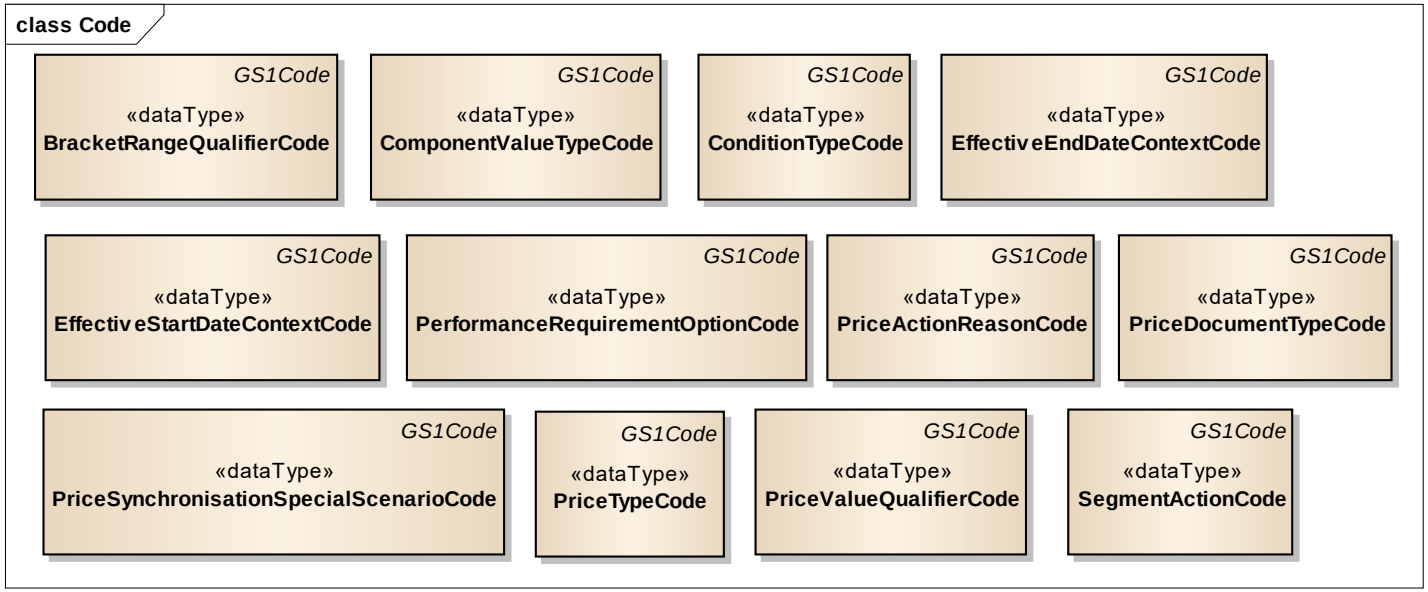
Related Rules

1. Header segment is mandatory and must be sent with this message.
2. If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.
3. A confirmation status of “REJECTED” is not valid for a discontinue.
4. A confirmation status of “REVIEW” is not valid for a discontinue.
5. No response means that no further synchronisation can occur.
6. Condition segment is not required.
7. Relationship segment is not required.
8. For a discontinue, the End Effective Date must be populated or updated.
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.
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.
11. For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.

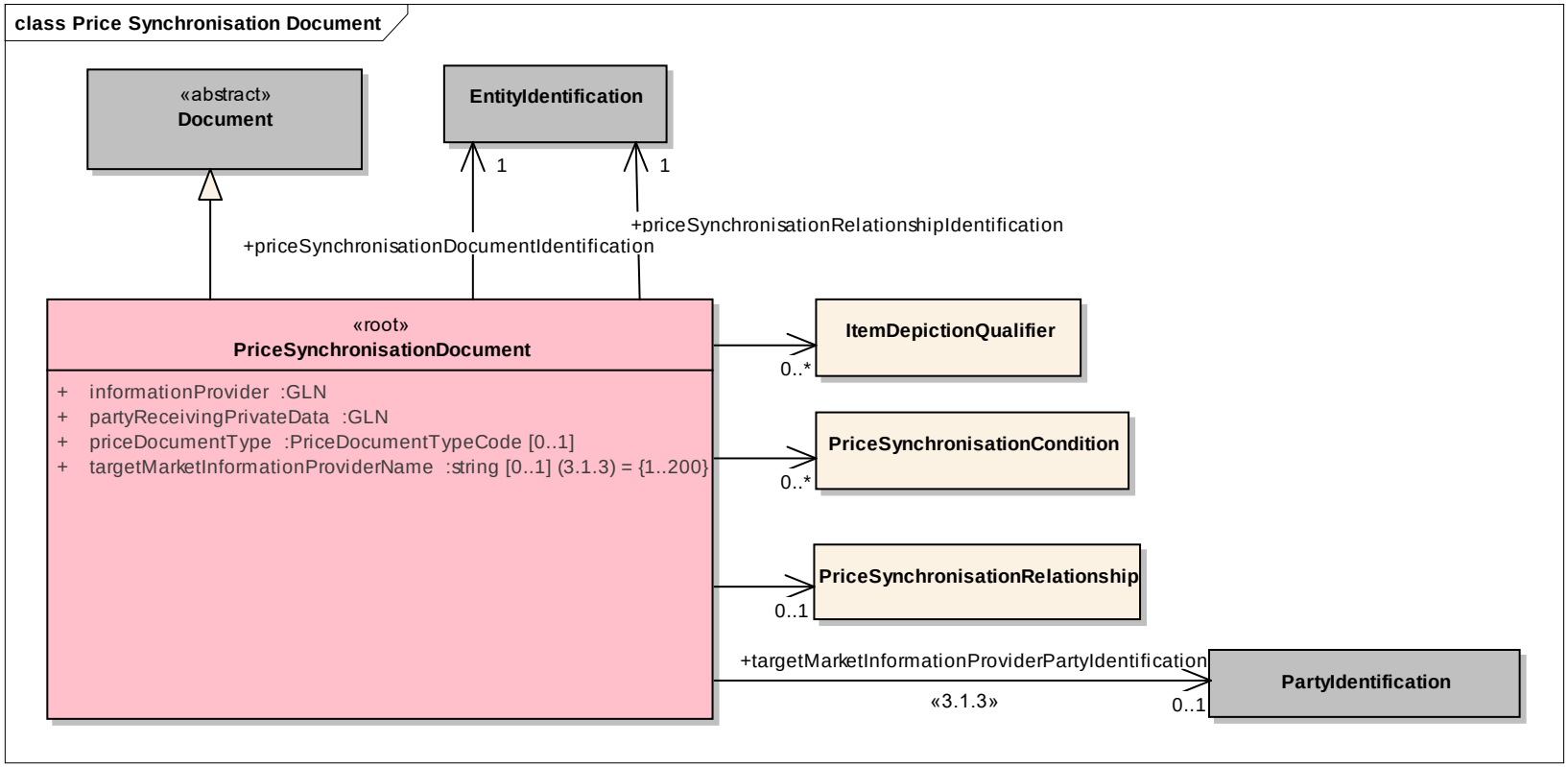
4. Information Model

4.1. Class Diagrams

4.1.1. Codes



4.1.2. Price Synchronisation Document

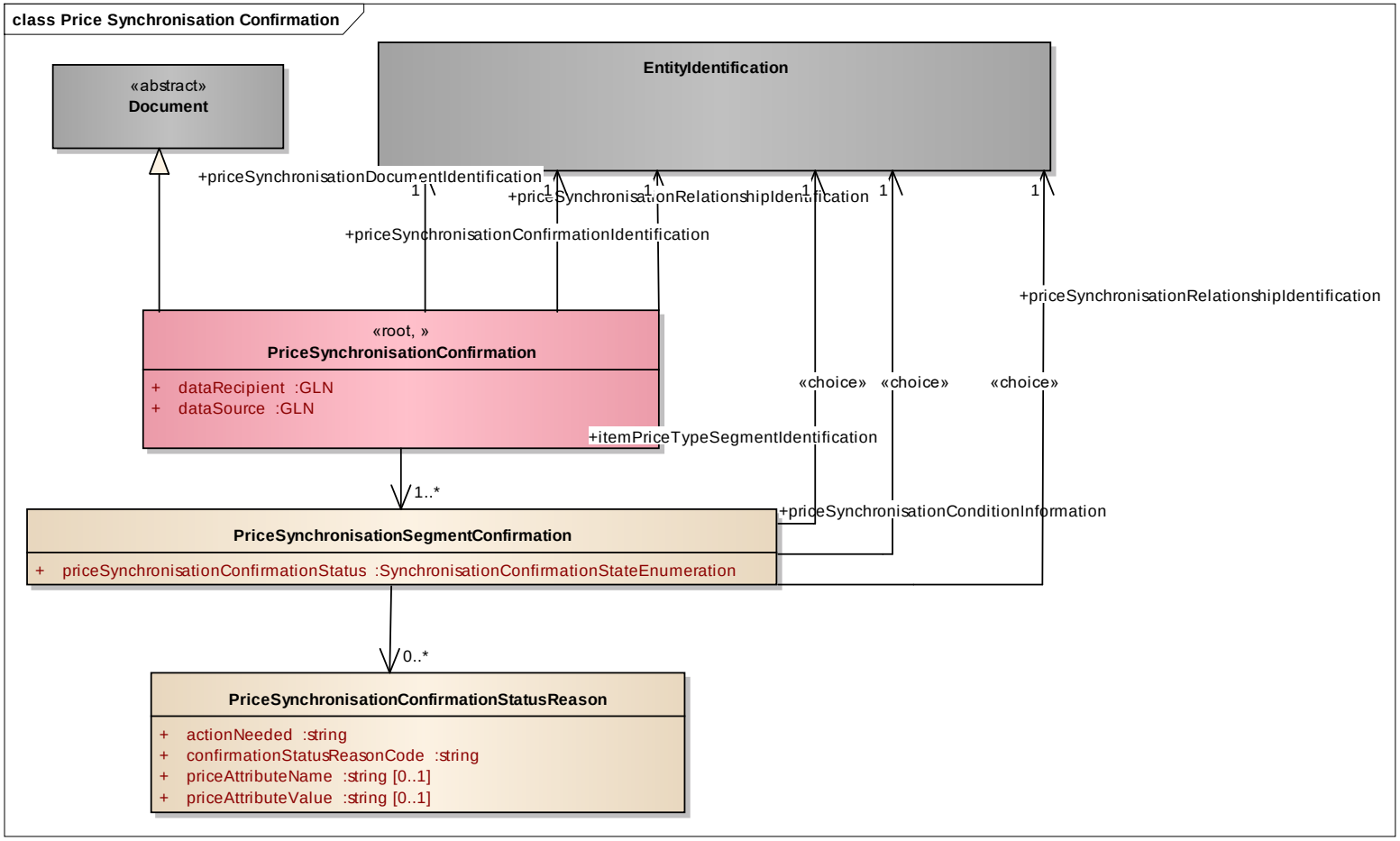


Note: Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
PriceSynchronisationDocument				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	priceSynchronisationRelationshipIdentification	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	Multiplicity	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 relationshi
Association		PriceSynchronisation RelationShip	0..1	Provides the depiction of a price synchronisation relationship for a price synchronisation document
Association		ItemDepictionQualifier	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	priceSynchronisationDocumentIdentification	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
Association	targetMarketInformationProviderPartyIdentification	PartyIdentification	0..1	The party identification (GLN and additional) of any local provider of price information for an item if this party is different than the Price Sychronisation Document Information Provider.
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	PriceDocumentTypeCode	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.
Attribute	targetMarketInformationProviderName	String	0..1	The name of any local provider of price information for an item if this party is different than the Price Sychronisation Document Information Provider.

4.1.3. Price Synchronisation Confirmation



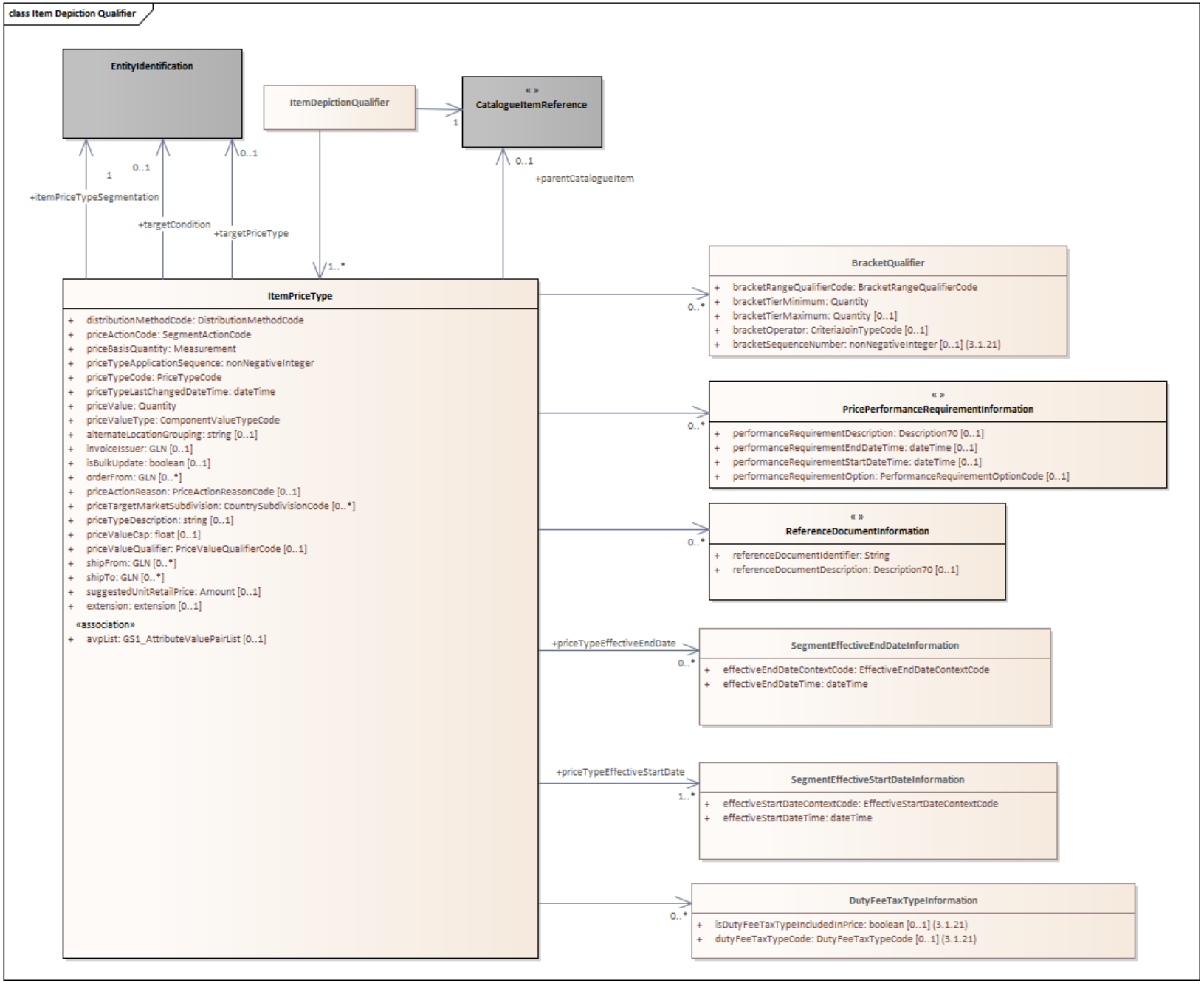
Note: Reference Shared Common Library Business Message (BMS) Release 3.1.0

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	Multiplicity	Definition
Association	itemPriceTypeSegmentIdentification	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	priceSynchronisationRelationshipIdentification	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		PricesynchronisationConfirmationStatusReason	0..*	Provides the reason, action required and relevant attributes and values connected with a synchronisation status.
Association	priceSynchronisationConditionInformation	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	priceSynchronisationConfirmationStatus	SynchronisationConfirmationStatusEnumeration	1..1	Describes the data recipient's action taken on the information contained in a specific segment of the price synchronization message.
PricesynchronisationConfirmationStatusReason				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	confirmationStatusReasonCode	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	Multiplicity	Definition
PriceSynchronisationConfirmation				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	priceSynchronisationRelationshipIdentification	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	priceSynchronisationConfirmationIdentification	EntityIdentification	1 ..1	Uniquely identifies the Price Synchronisation Confirmation
Association	priceSynchronisationDocumentIdentification	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		PriceSynchronisationSegmentConfirmation	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	Multiplicity	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.
BracketQualifier				Identifies conditions required to be met to qualify for a bracket
Attribute	bracketRangeQualifierCode	BracketRangeQualifierCode	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).
Attribute	bracketSequenceNumber	nonNegativeInteger	0..1	The unique sequence number that identifies the order of the price brackets from smallest to largest.
dutyFeeTaxTypeInformation				A duty, fee or tax which may be applicable to a trade item.
Attribute	dutyFeeTaxTypeCode	DutyFeeTaxTypeCode	0..1	Identification of the type of duty or tax or fee applicable to the trade item. This will vary by target market.
Attribute	isDutyFeeTaxTypeIncludedInPrice	Boolean	0..1	The indicator that specifies whether the type of duty, tax or fee applicable to the trade item, is included in the price. This will vary according to the target market or buyer.
SegmentEffectiveEndDateInformation				The effective end date and associated context (e.g. last order date) for a condition.
Attribute	effectiveEndDateTime	dateTime	1..1	A date\time used to indicate when the component depicted in the segment is no longer available for use.

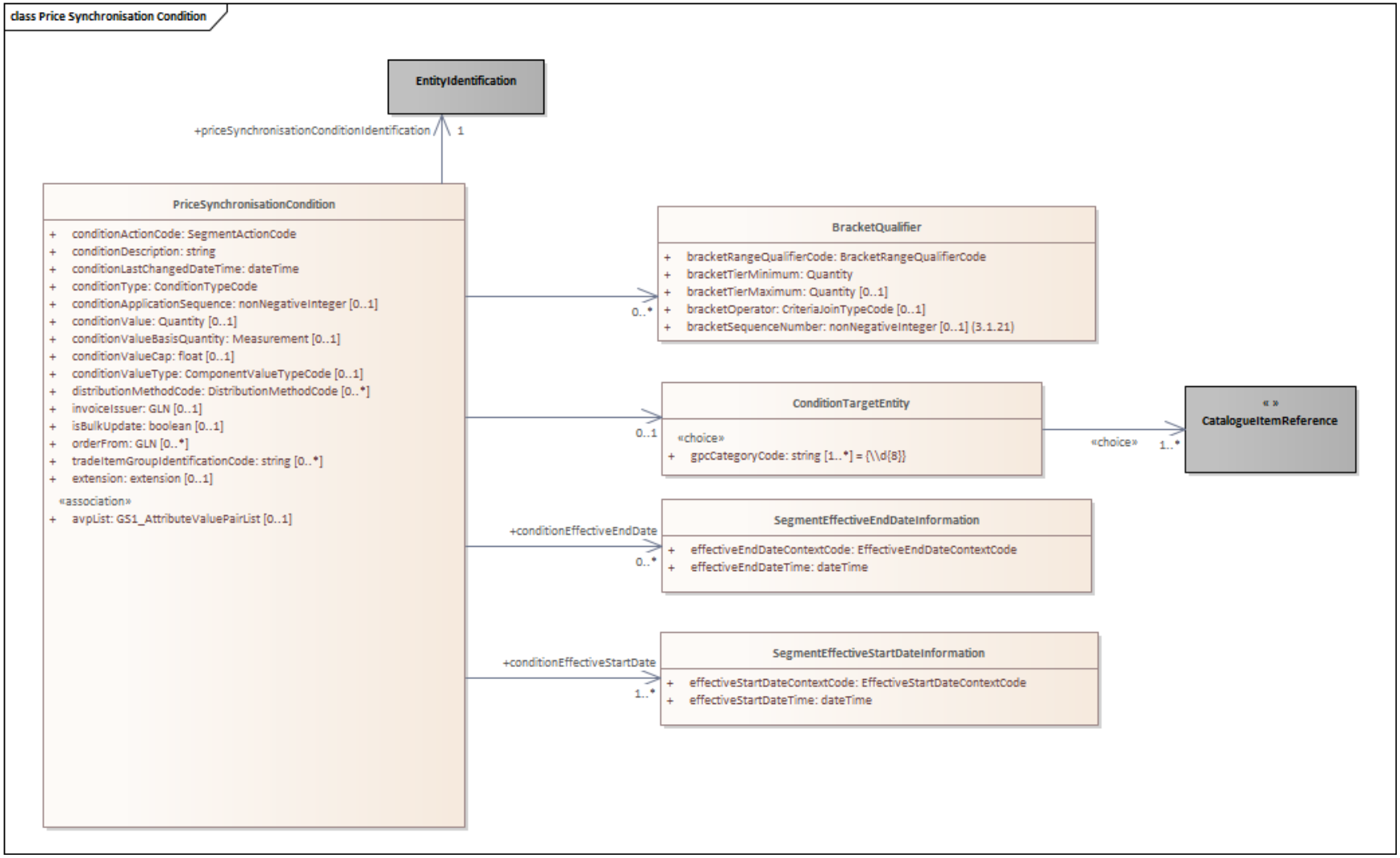
Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Attribute	effectiveEndDateContextCode	EffectiveEndDateContextCode	1..1	An associated event which gives significance to the effective start date for a segment for example first order date.
SegmentEffectiveStartDateInformation				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.
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 - 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.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
Association	avpList	GS1_AttributeValuePairList	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	DistributionMethodCode	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	priceTypeApplicationSequence	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	priceTypeLastChangedDateTime	dateTime	1..1	Identifies a certain point in time where the segment was last modified.
Attribute	priceValue	Quantity	1..1	Associates a percent or integer value with a price value.
Attribute	priceValueType	ComponentValueTypeCode	1..1	A classification of the price component used to determine how to apply the amount for example value, rate or percent.

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
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	PriceValueQualifierCode	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	PriceActionreasonCode	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	CountrySubdivisionCode	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.
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

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
				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.
PricePerformanceRequirementInformation				Standardized list of requirements which are types of price components to be met to receive a monetary value.
Attribute	performanceRequirementDescription	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	performanceRequirementEndDateTime	dateTime	1..1	A date indicating the ending of a period during which the performance requirements should be met.
Attribute	performanceRequirementStartDateTime	dateTime	1..1	A date indicating the beginning of a period during which the performance requirements should be met.
Attribute	performanceRequirementOption	performanceRequirementOptionCode	0..1	Standardized list of requirements which are types of price components to be met to receive a monetary value.
ReferenceDocumentInformation				This class enables the input of a reference document (e.g. contract) for a specific condition.
Attribute	referenceDocumentIdentifier	string	1..1	Identifier that provides a link to further detail on the price condition, for example an associated contract between trading partners.
Attribute	referenceDocumentDescription	Description70	0..1	A free form text field used to describe a contract or other document which contains more information about agreements made regarding a condition.

4.1.5. Price Synchronisation Condition



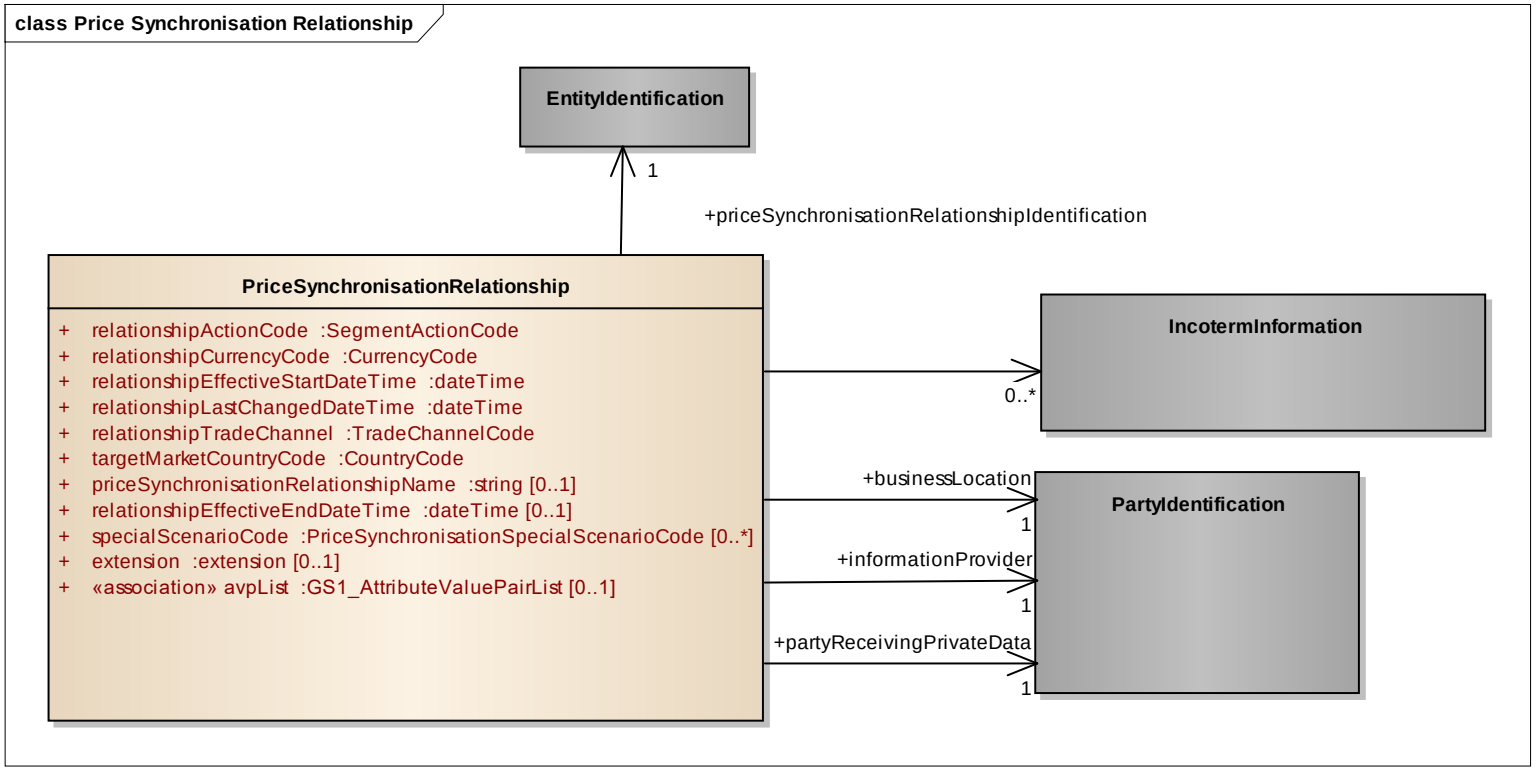
Note: Reference Shared Common Library Business Message (BMS) Release 3.1.0

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
PriceSynchronisationCondition				
Association		ConditionTargetEntity	0..1	Provides an item of grouping of items associated with a price condition
Association	priceSynchronisationConditionIdentification	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	SegmentEffectiveStartDateInformation	1..*	Provides the effective start date and context for a price synchronisation condition.
Association	conditionEffectiveEndDate	SegmentEffectiveEndDateInformation	0..*	Provides the effective end date and context for a price synchronisation condition
Association	avpList	GS1_AttributeValuePairList	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	conditionLastChangedDateTime	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

Content	Attribute / Role	Datatype /Secondary class	Multiplicity	Definition
				applied in the process of calculating the net invoice price.
Attribute	conditionValue	Quantity	0..1	Provides a value or percent associated with a condition
Attribute	conditionValueType	ComponentValueTypeCode	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	DistributionMethodCode	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	tradeItemGroupIdentificationCode	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>>	CatalogueItemReference	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	Multiplicity	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_AttributeValuePairList	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	relationshipEffectiveStartDateTime	dateTime	1..1	The day on which the price synchronization relationship commences.
Attribute	relationshipLastChangedDateTime	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	priceSynchronisationRelationshipName	string	0..1	The name assigned by the buyer and seller to their price sync relationship.
Attribute	relationshipEffectiveEndDateTime	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	Multiplicity	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 for the full GS1 GDSN Code List document can be found here.

5. Business Document Example

Attribute	Value
PriceSynchronisationDocument	
Document	
creationDateTime	2011-03-11 11:00
documentStatus	ORIGINAL
• informationProvider	0012345000010
• partyReceivingPrivateData	0056345000022
• priceDocumentType	INITIAL_LOAD
priceSynchronisationDocumentationIdentification	
- entityIdentification	20051101
PartyIdentification (contentOwner)	
- gln	8712345678913
priceSynchronisationRelationshipIdentification	
- entityIdentification	20051102
PartyIdentification (contentOwner)	
- gln	8712345678913
PriceSynchronisationRelationship	
• PriceSynchronisationRelationshipIdentification	
- entityIdentification	20051101
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

Attribute	Value
• partyRecievingPrivateData	0056345000022
IncotermInformation	
• incotermCode	CFR
• incotermCodeLocation	Port Charlotte
PriceSynchronisationCondition	
• 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
PriceSynchronisationConditionIdentification	
○ uniqueCreatorIdentification	WG-000007
○ contentOwner	0012345000010
conditionEffectiveStartDate	
○ effectiveStartDateTime	2006-01-10T12:00:01.000
○ effectiveStartDateContextCode	FIRST_DELIVERY_DATE
conditionEffectiveEndDate	
○ effectiveEndDateTime	2007-01-10T12:00:01.000
○ effectiveEndDateContextCode	LAST_DELIVERY_DATE
BracketQualifier	
• bracketRangeQualifierCode	MEASUREMENT_RANGE
• bracketTierMaximum	500,000 YD
• bracketTierMinimum	100,000 YD
ConditionTargetEntity	
• CatalogueItemReference	
○ gtin	06110123456784
○ dataSource	0012345000010
○ targetMarketCountryCode	US
ItemDepictionQualifier	
ItemPriceType	
• alternateLocationGrouping	72436437
• distributionMethodCode	CD
• priceActionCode	ADD
• priceActionReason	NI

Attribute	Value
• 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
priceTypeEffectiveStartDate	
• effectiveStartDateTime	2006-01-10T12:00:01.000
• effectiveStartDateContextCode	FIRST_DELIVERY_DATE
ReferenceDocumentationInformation	
• referenceDocumentIdentifier	123232334334
• referenceDocumentDescription	Contract dated 2006-07-01
PricePerfomanceRequirementInformation	
• performanceRequirementEndDateTime	2007-01-10T12:00:01.000
• performanceRequirementOption	INSERT
• performanceRequirementStartDateTime	2006-01-10T12:00:01.000
targetPriceType	
○ uniqueCreatorIdentification	WG-000005
○ contentOwner	0012345000010
itemPriceTypeSegmentation	
- entityIdentification	20051101
PartyIdentification (contentOwner)	
- gln	8712345678913

Attribute	Value
PriceSynchronisationConfirmation	
• dataRecipient	0012345000010
• dataSource	0056345000022
• priceSynchronisationDocumentIdentification	
- entityIdentification	20051101
PartyIdentification (contentOwner)	
- gln	8712345678913

Attribute	Value
• priceSynchronisationConfirmationIdentification	
- entityIdentification	20051102
PartyIdentification (contentOwner)	
- gln	8712345678913
• priceSynchronisationRelationshipIdentification	
- entityIdentification	20051103
PartyIdentification (contentOwner)	
- gln	8712345678913
PriceSynchronisationSegmentConfirmation	
○ priceSynchronisationConfirmationStatus	REVIEW
• priceSynchronisationRelationshipIdentification	
- entityIdentification	20051103
PartyIdentification (contentOwner)	
- 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

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 for release 3.1.3. In order to send price commentary information you should instead use the flexible extension documented in the following guide: **GDSN_Price_Flex_Extension** .

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.

6.5.1. 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
• Updated version number and date • Updated all use case diagrams in document to be in line with Modelling Methodology for Major Release 3 • Removed Rate From ComponentValueTypeCode • Changed PriceSynchronisationConfirmationStatusCode to SynchronisationConfirmationStatusEnumeration • Changed attribute name in ConditionTargetEntity to the priceSynchrobisationCondition class to gpcCategoryCode.	1.3.1	n/a
• Corrected typo in distributionMethodCode • Added avpList association into ItemDepictionQualifier, PriceSynchronisationRelationship, PriceSynchronisationCondition. • Corrected document status in cover and footers. • Changed entity identification to top level for all classes.	1.3.2	n/a
• PriceSynchronisationDocument: Changed priceDocumentTypeCode to priceDocumentType. • PriceSynchronisationSegmentConfirmation: Changed priceSynchronisationConfirmationStatusCode to priceSynchronisationConfirmationStatus • ItemPriceType: Moved Extension to last attribute (before AVPList) • ItemPriceType: changed priceValueTypeCode to priceValueType • ItemPriceType: Changed data type for AVPList • PricePerformanceRequirementInformation: Changed performanceRequirementOptionCode to performanceRequirementOption • PriceSynchronisationCondition: changed datatype for AVPList • PriceSynchronisationRelationship: changed datatype for AVPList	1.3.3	

Change	BSD Version	Associated CR Number
• PriceSynchronisationRelationship: changed relationshipTradeChannelCode to relationshipTradeChannel		
• Removed line numbers • Changed from "Draft" to "Issue"	1.3.4	
• Replaced the status of Accept to RECEIVED throughout the document since ACCEPT has been replaced by RECEIVED for 3.1. • Changed all the references to the status codes in the document to all caps to match code value. • Clarified section 6.4 eliminating the suggested need to send a Special Scenario Code. • Changed Rule 9 in UC-11 regarding the use of Price Type Segment Action code of Delete. • Added targetMarketInformationProviderName and targetMarketInformationProviderPartyIdentification to PriceSynchronisationDocument • Added comments into model and section 6.4 stating that the Price Commentary class should not be used to send price commentary information. • Deleted the association to the PriceCommentary Class from ItemPriceType. Deleted entire class from the Standard. • Corrrected link to flex extension guidance in section 6.4. (5/23/2017).	1.3.5	
• Added two new codes to the PriceTypeCode list in the section 4.2.10. Request for this was submitted through the work request number WR 19-000121	1.3.6	
• WR – 21-427 added a new attribute bracketSequenceNumber to the BracketQualifier class in PriceSynchronisationCondition • WR-21-000428 – Create a new class: DutyFeeTaxTypeInformation and add 2 new attributes dutyFeeTaxTypeCode and isDutyFeeTaxTypeIncludedInPrice to the newly added class in PriceSynchronisationCondition • Updated section 4.2 ‘Codes’ with new link to the full codelist document and removed the code tables as they were no longer relevent	1.3.7	WR-21-000427 WR-21-000428