Business Message Standard (BMS) Align GDSN Price Synchronization

BMS Release: 2.7, BRG Name: GDSN

1.1.0, 20-Oct-2009

Document Summary

Document Item	Current Value
Document Title	Business Message Standard (BMS)
BMS Name	Align GDSN Price Synchronization
BMS Release	2.7
BRG Name	GDSN
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Change Request Reference

Date of CR Submission to GSMP:	CR Submitter(s):	Refer to Change Request (CR) Number(s):
15-Aug-2005	Tom Heist for RDD Team	05-000250
18-Aug-2008	GS1 Australia	08-000199

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

Document Change History

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
25-May-2006	0.0.1	Eric Kauz	Initial Draft		
05-Apr-2007	0.0.2	Eric Kauz	Pilot Feedback	Update to business rules based on pilot feedback. Updated UC-9 Related Rule 8 and UC-10 Related Rule 10 to read “Bracket Qualifiers for a Price Type can be sent providing that the brackets have not been sent as standard brackets”.	

Date of Change	Version	Changed By	Reason for Change	Summary of Change	Model Build #
30-Apr-2007	0.0.3	Eric Kauz	Comment Review	Changed Business Rule 18 in UC-9 and UC-10 to clarify the application of Allowances/Charges. Update rule 9 in UC-9 and Rule 10 in UC-10 to clarify application of bracket qualifiers.	
14-Jan-2008	1.0.0	Eric Kauz	Maintenance Release for Price	See Summary of Changes	
03-Feb-2008	1.0.0	Eric Kauz	Comment Review	• Updated Business Rules • Added isBulkUpdate to Condition and Price Type Segments. Removed corresponding Bulk_UPDATE code list value.	
02-May-2008	1.0.1	Eric Kauz	Review Comments	• Added Implementation Considerations for bulk price list update special scenario. • Edited Implementation Considerations to correct special scenario.	
15-Sept-2008	1.0.2	Eric Kauz	CR 08-000199	• Corrected sample data for Price Synchronisation Document and the Price Synchronisation Confirmation to swap the values for uniqueCreatorIdentification and contentOwner.	

Disclaimer

Table of Contents

1. Business Domain View

1.1. Problem Statement / Business Need

Currently there is limited capability for electronically communicating accurate pricing in-formation 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.

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 Synchronisation in the GDSN V 0.0.5

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 #	Reference Name	Description
1	BRAD Price Synchronisation in the GDSN V 0.0.5	Requirements documentation for applying price synchronisation in the GDSN.
2	Align – BMS Trading Partner Profile	Approved global standard for price synchronization outside of the GDSN.
3	Align – BMS Condition Document and Monetary Documents	Approved global standard for price synchronization outside of the GDSN.
4	BRAD GDSN Price Sync Maintenance Release V 1.0.0	Requirements for maintenance update of Price Synchronisation messages.
5	BRAD For GDSN Maintenance Release 4	Maintenance Release CRs.

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. BRG Members

See Task/Project Group Participants

1.5.2. ITRG Members

Not Applicable

1.5.3. Task/Project Group Participants

Function	Name	Company / organisation
Participant	Kraig Adams	Coca Cola
Participant	Gundeep Ahluwalia	Agentrics
Participant	Javier Arias	GS1 Spain
Participant	Neale Austen	GS1 Australia
Participant	Dan Beaudry	Procter & Gamble
Participant	Joe Bohning	Nestle Pet Care
Participant	Bryan Dunlap	Pillsbury
Participant	Mark Hann	GSX
Participant	John Durovec	1SYNC
Participant	Grant Kille	Agentrics
Participant	Carolyn Kroll	1SYNC
Participant	Ken Kubat	Tibco
Participant	Lynn Martinez	Cadbury
Participant	Randy Mercer	Lanza
Participant	Terry Mochar	Reckitt-Benkiser
Participant	Mrinalini Nayar	Pepsico
Participant	Nasir Qadeer	1SYNC
Participant	Nadine Radomski	Dean Foods
Participant	Steve Robba	Johnson & Johnson
Participant	Karen Spooner	Kraft
Participant	Diane Tetens	General Mills
Participant	Dave Wasielewski	Sterling Commerce
Participant	Greg Zwanziger	Supervalu

1.5.4. Design Team Members

Function	Name	Organisation
Modeller	Eric Kauz	GS1
XML Technical Designer	Dipan Anarkat	GS1
EANCOM Technical Designer		
Peer Reviewer	Brian Bennett, John Ryu	GS1

2. Business Context

Context Category	Value(s)
Industry	All
Geopolitical	All
Product	All
Process	Align_GDSN_Price
System Capabilities	EAN.UCC
Official Constraints	None

3. Additional Technical Requirements Analysis

This section documents the analysis of additional technical requirements.

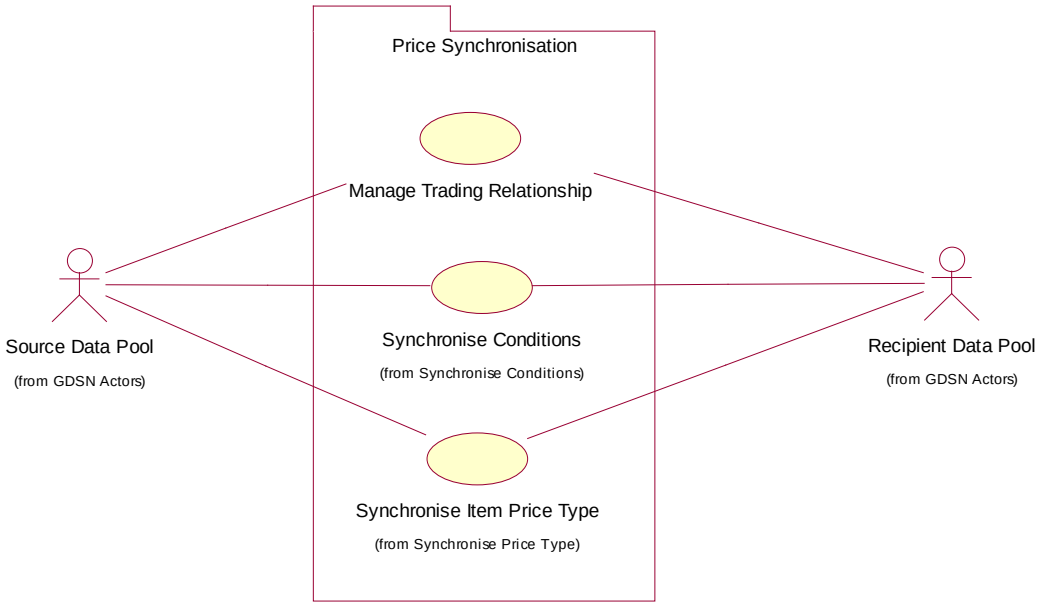
3.1. Technical Requirements (optional)

Not applicable.

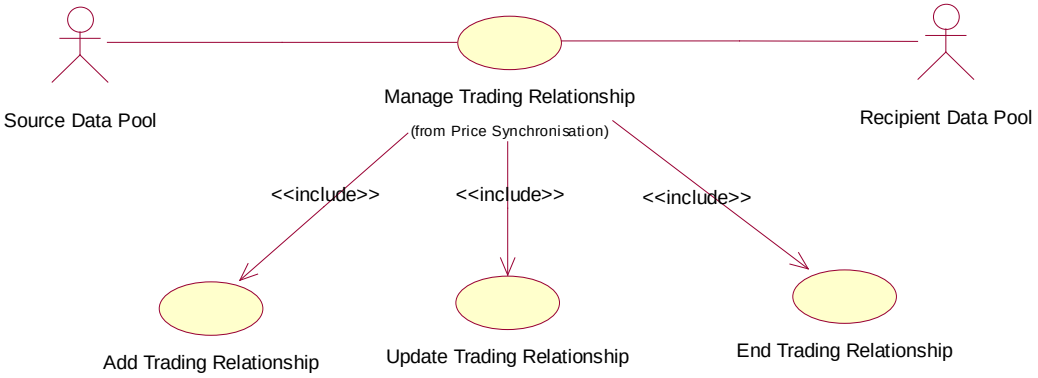
4. Business Transaction View

4.1. Business Transaction Use Case Diagram

Figure 4-1 Use Case Diagram: Price Synchronisation GDSN



4.2. Use Case Diagram – Manage Trading Relationship



4.3. Use Case Definitions – Add Trading Relationship

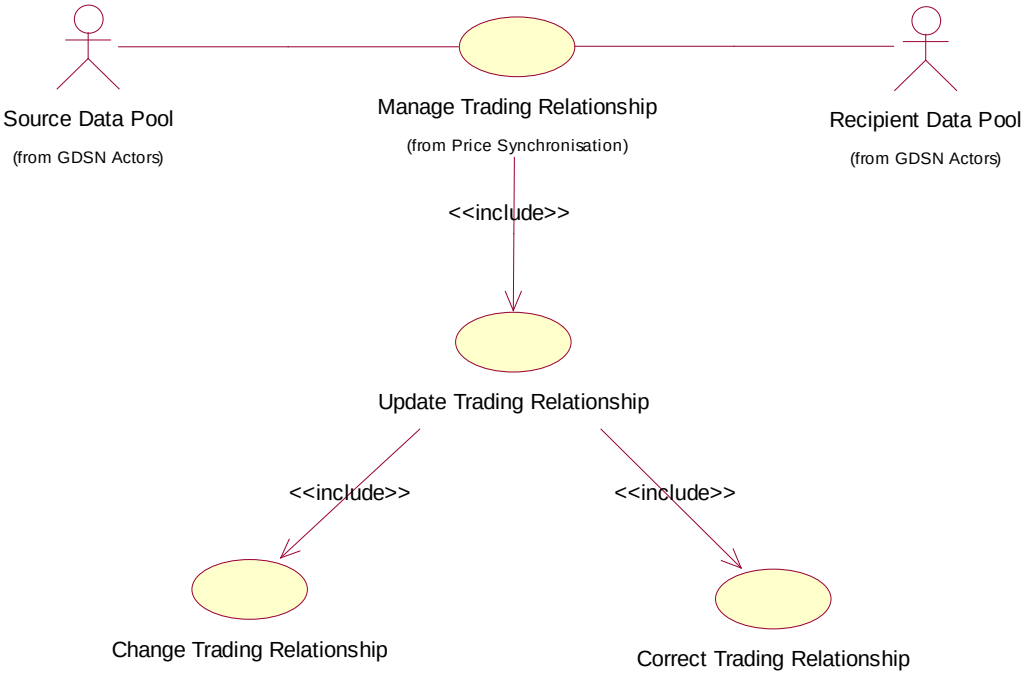
Use Case ID	UC-1
Use Case Name	Add Trading Relationship
Use Case Description	This use case establishes a price synchronisation trading partner relationship.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Initiate a price synchronisation relationship.
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 “accept” 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.

<table>
<tr><th>Use Case ID</th><th>UC-1</th></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 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 accept or no response is sent by the data recipient. See related rules below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td>1</td><td>Not Applicable</td></tr>
</table></td></tr>
<tr><td>Related Rules</td><td>
<table>
<tr><td>1.</td><td>Confirmation status codes other than accept 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.</td></tr>
<tr><td>2.</td><td>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.</td></tr>
<tr><td>3.</td><td>A price synchronisation relationship can have only one active relationship segment at a time.</td></tr>
<tr><td>4.</td><td>If the Document Header is “ADD”, the Price Document ID must = “1”</td></tr>
<tr><td>5.</td><td>When relationship action document header equals “add”, there are no dependency checks.</td></tr>
<tr><td>6.</td><td>The data recipient can override a previous confirmation status with another one through a confirmation response.</td></tr>
<tr><td>7.</td><td>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 ‘Accepted’ 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.</td></tr>
<tr><td>9</td><td>Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”.</td></tr>
</table></td></tr>
</table>

4.4. Use Case Diagram – Update Trading Relationship



4.5. Use Case Definitions – Update Trading Relationship

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><th>Use Case ID</th><th>UC-2</th></tr>
<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 an “accept” 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 accept. See related requirements below for status codes and their actions.</td></tr>
</table>
</td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td>1</td><td>Not Applicable</td></tr>
</table>
</td></tr>
</table>

Use Case ID	UC-2	
Related Rules	1	Confirmation status codes other than accept 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 ‘Accepted’ 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.

4.6. Use Case Definitions – Cancel Trading Relationship

<table>
<tr><th>Use Case ID</th><th>UC-3</th></tr>
<tr><td>Use Case Name</td><td>Cancel Trading Relationship</td></tr>
<tr><td>Use Case Description</td><td>This use case terminates a specific price synchronisation trading partner relationship that has not yet taken effect.</td></tr>
<tr><td>Actors (Goal)</td><td>Data source, Source Data Pool, Recipient Data Pool, Data Recipient</td></tr>
<tr><td>Performance Goals</td><td>To terminate a price synchronisation relationship.</td></tr>
<tr><td>Preconditions</td><td>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.</td></tr>
<tr><td>Post conditions</td><td>Price synchronisation relationship is terminated.</td></tr>
<tr><td>Scenario</td><td>Begins when...The data source notifies their SDP of the need to terminate 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>Performs validations.</td></tr>
<tr><td>1</td><td>SDP</td><td>Terminates the relationship by sending a price synchronisation message with a document command of “CHANGE_BY_REFRESH ” with a relationship section action code of “Delete” to the RDP.</td></tr>
<tr><td>2</td><td>RDP</td><td>Receives price synchronisation message and sends relationship information to data recipient.</td></tr>
<tr><td>3</td><td>Data Recipient</td><td>Receives the trading relationship information and confirms the relationship by responding with an “accept” response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>4</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>5</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 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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td>1</td><td>Not Applicable</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-3
Related Rules	

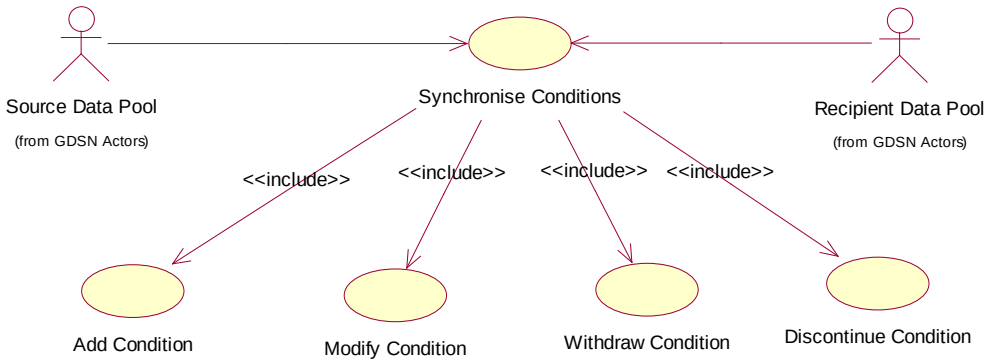
1	Confirmation status codes other than accept are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system; reject – message received and terms of a specific price message segment were rejected or the data recipient wishes to terminate the price synchronisation relationship.
2	A confirmation status of “REJECTED” 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.

4.7. Use Case Definitions – Discontinue Trading Relationship

<table>
<tr><th>Use Case ID</th><th>UC-4</th></tr>
<tr><td>Use Case Name</td><td>Discontinue Trading Relationship</td></tr>
<tr><td>Use Case Description</td><td>This use case terminates a specific price synchronisation trading partner relationship that is currently in effect.</td></tr>
<tr><td>Actors (Goal)</td><td>Data source, Source Data Pool, Recipient Data Pool, Data Recipient</td></tr>
<tr><td>Performance Goals</td><td>To terminate a price synchronisation relationship.</td></tr>
<tr><td>Preconditions</td><td>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.</td></tr>
<tr><td>Post conditions</td><td>Price synchronisation relationship is discontinued.</td></tr>
<tr><td>Scenario</td><td>Begins when...The data source notifies their SDP of the need to discontinue 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>Performs validations.</td></tr>
<tr><td>1</td><td>SDP</td><td>Terminates the relationship by sending a price synchronisation message with a document command of “CHANGE_BY_REFRESH” with a relationship section action code of “CHANGE_BY_REFRESH” to the RDP and a populated relationship end effective date.</td></tr>
<tr><td>2</td><td>RDP</td><td>Receives price synchronisation message and sends relationship information to data recipient.</td></tr>
<tr><td>3</td><td>Data Recipient</td><td>Receives the trading relationship information and confirms the relationship change by responding with an “accept” response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>4</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>5</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 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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-4	
Related Requirements	1	Not Applicable
Related Rules	1	Confirmation status codes other than accept 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” 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.

4.8. Use Case Diagram – Synchronise Conditions



4.9. Use Case Definitions – 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.
Scenario	**Begins when**...The data source notifies their SDP of price components to be added for a relationship (done outside of the network). **Continues with**...

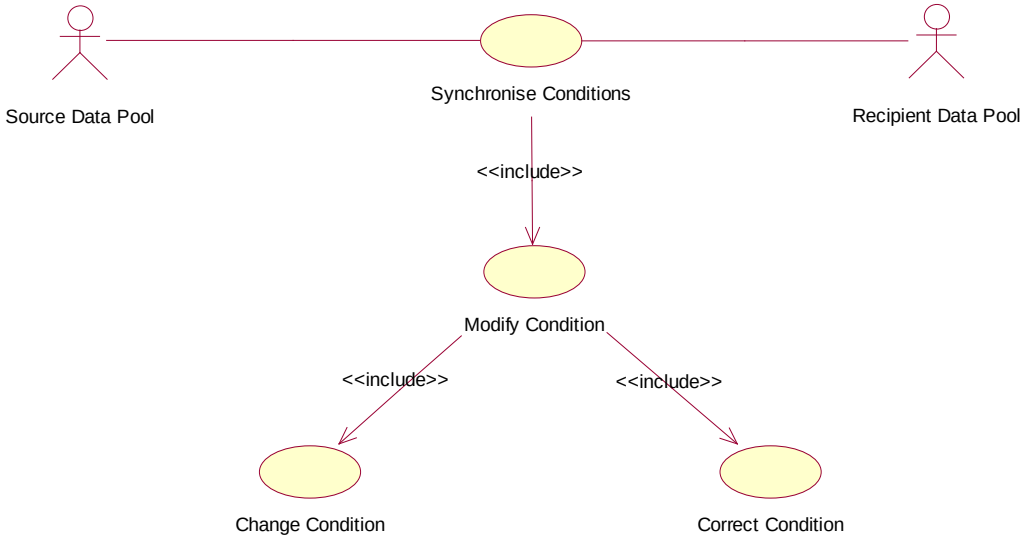
Step #	Actor	Activity Step
1	SDP	Performs validations.
2	SDP	Creates a price synchronisation message using document command of “CHANGE_BY_REFRESH” (if the trading relationship has already been established) and the condition segment with a segment action code of “add” to the RDP, indicates the condition types and updates the price synchronisation list.
3	RDP	Sends the price message to the data recipient.
4	Data Recipient	Receives the message and confirms the conditions by responding with an “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... conditions and bracket qualifiers (as needed) have been synchronized.

<table>
<tr><th>Use Case ID</th><th>UC-5</th></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>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
<tr><td>Related Rules</td><td>
<table>
<tr><td>1</td><td>When condition type equals bracket the bracket sub-section is used to identify the bracket qualifiers.</td></tr>
<tr><td>2</td><td>Header segment is mandatory and must be sent with this message.</td></tr>
<tr><td>3</td><td>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.</td></tr>
<tr><td>4</td><td>If there has been no response to relationship segment, the condition segment is still sent to the data recipient.</td></tr>
<tr><td>5</td><td>Cannot send condition if relationship has been rejected.</td></tr>
<tr><td>6</td><td>If the Condition Segment is sent in the first price message establishing the trading relationship, the Document Header Command = ADD.</td></tr>
<tr><td>7</td><td>If the Condition Segment is sent after establishing the trading relationship, the Document Header Command = CHANGE_BY_REFRESH.</td></tr>
<tr><td>8</td><td>If Document Header Command = ADD, then Price Document ID must = “1”.</td></tr>
<tr><td>9</td><td>If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.</td></tr>
<tr><td>10</td><td>Confirmation status codes other than accept are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system. If no response is made the SDP will stop price synchronisation.</td></tr>
<tr><td>11</td><td>Confirmation Statuses (assumes one response per condition)
▪ Accepted
▪ Review
▪ Synchronized
▪ No Response – no further price synchronisation may occur
- For the specified condition ID
- Nor any price type referring to that condition ID</td></tr>
<tr><td>12</td><td>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.</td></tr>
<tr><td>13</td><td>The data recipient can override a previous confirmation status with another one through a confirmation response.</td></tr>
<tr><td>14</td><td>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 ‘Accepted’ followed by ‘Synchronised’.</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-5	
	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”.

4.10. Use Case Diagram – Modify Conditions



4.11. Use Case Definitions – 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.

<table>
<tr><th>Use Case ID</th><th>UC-6</th></tr>
<tr><td>Scenario</td><td>
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...
<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 condition segment with a segment action code of “CHANGE_BY_REFRESH” for a modification or “Correct” for a correct to the RDP, indicates the condition types and updates the price synchronisation list.</td></tr>
<tr><td>3</td><td>RDP</td><td>Sends the price message to the data recipient.</td></tr>
<tr><td>4</td><td>Data Recipient</td><td>Receives the message and confirms the conditions by responding with an “Accept” confirmation response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>5</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>6</td><td>SDP</td><td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td></tr>
</table>
Ends when... conditions and bracket qualifiers (as needed) 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 accept. See related requirements below for status codes and their actions.</td></tr>
</table>
</td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table>
</td></tr>
</table>

Use Case ID	UC-6
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 accept are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system. If no response is made the SDP will stop price synchronisation.
8	Condition Value Type cannot be modified.
9	Start Effective Date cannot be modified.
10	Start Effective Date can be corrected if it is not yet in effect (future date).
11	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.
12	The data recipient can override a previous confirmation status with another one through a confirmation response.
13	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 ‘Accepted’ followed by ‘Synchronised’.
14	Can’t send an update for a segment if the previous add/change by refresh/correct has had no response or has been rejected.
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”.
17	For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.

4.12. Use Case Definitions – Withdraw Condition

<table>
<tr><th>Use Case ID</th><th>UC-7</th></tr>
<tr><td>Use Case Name</td><td>Withdraw Condition</td></tr>
<tr><td>Use Case Description</td><td>This use case deletes an existing non-line item conditions and/or summary conditions prior to the effective start date of the condition.</td></tr>
<tr><td>Actors (Goal)</td><td>Data source, Source Data Pool, Recipient Data Pool, Data Recipient</td></tr>
<tr><td>Performance Goals</td><td>Withdraw a condition for price synchronisation.</td></tr>
<tr><td>Preconditions</td><td>Price synchronisation relationship exists and price component has been accepted by data source.</td></tr>
<tr><td>Post conditions</td><td>Condition has been withdrawn.</td></tr>
<tr><td>Scenario</td><td>Begins when...The data source notifies their SDP of a need to withdraw a price component (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 condition segment with a segment action code of “Delete” to the RDP, indicates the condition types and updates the price synchronisation list.</td></tr>
<tr><td>3</td><td>RDP</td><td>Sends the price message to the data recipient.</td></tr>
<tr><td>4</td><td>Data Recipient</td><td>Receives the message and confirms the conditions by responding with an “accept” confirmation response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>5</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>6</td><td>SDP</td><td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td></tr>
</table>
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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-7
Related Rules	

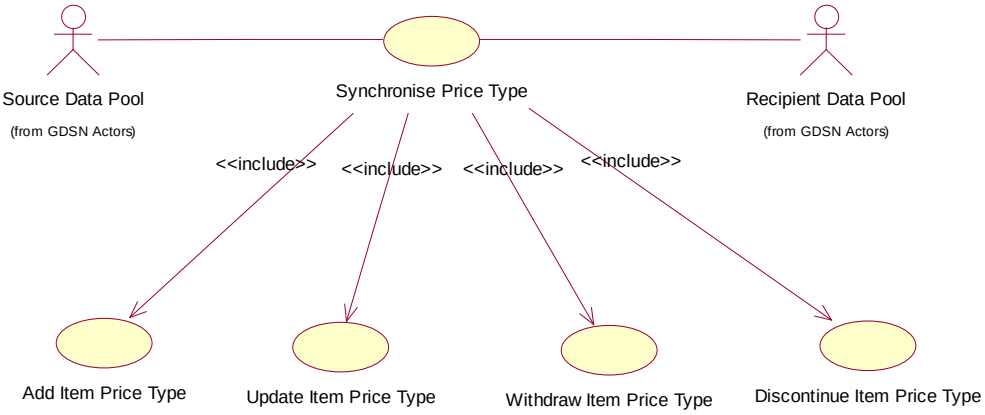
1	Header segment is mandatory and must be sent with this message.
2	In the condition segment, confirmations apply to the condition type and apply to all Catalogue Items or EANUCC Classification Category Codes in their respective lists.
3	If there has been no response to relationship segment, the condition 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 ‘Accepted’ 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.

4.13. Use Case Definitions – Discontinue a Condition

<table>
<tr><th>Use Case ID</th><th>UC-8</th></tr>
<tr><td>Use Case Name</td><td>Discontinue Condition</td></tr>
<tr><td>Use Case Description</td><td>This use case discontinues an existing non-line item conditions and/or summary conditions that are already in effect.</td></tr>
<tr><td>Actors (Goal)</td><td>Data source, Source Data Pool, Recipient Data Pool, Data Recipient</td></tr>
<tr><td>Performance Goals</td><td>Discontinues a condition for price synchronisation.</td></tr>
<tr><td>Preconditions</td><td>Price synchronisation relationship exists and price component has been accepted by data source.</td></tr>
<tr><td>Post conditions</td><td>Condition has been discontinued.</td></tr>
<tr><td>Scenario</td><td>Begins when...The data source notifies their SDP of a need to discontinue a price component. (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”, the condition segment with a segment action code of “CHANGE_BY_REFRESH” and an updated Condition End Effective Date to the RDP, indicates the condition types and updates the price synchronisation list.</td></tr>
<tr><td>3</td><td>RDP</td><td>Sends the price message to the data recipient.</td></tr>
<tr><td>4</td><td>Data Recipient</td><td>Receives the message and confirms the conditions by responding with an “accept” confirmation response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>5</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>6</td><td>SDP</td><td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td></tr>
</table>
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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-8	
Related Rules	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 ‘Accepted’ 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.

4.14. Use Case Diagram – Synchronise Price Type



4.15. Use Case Definitions – Add Item Price Type

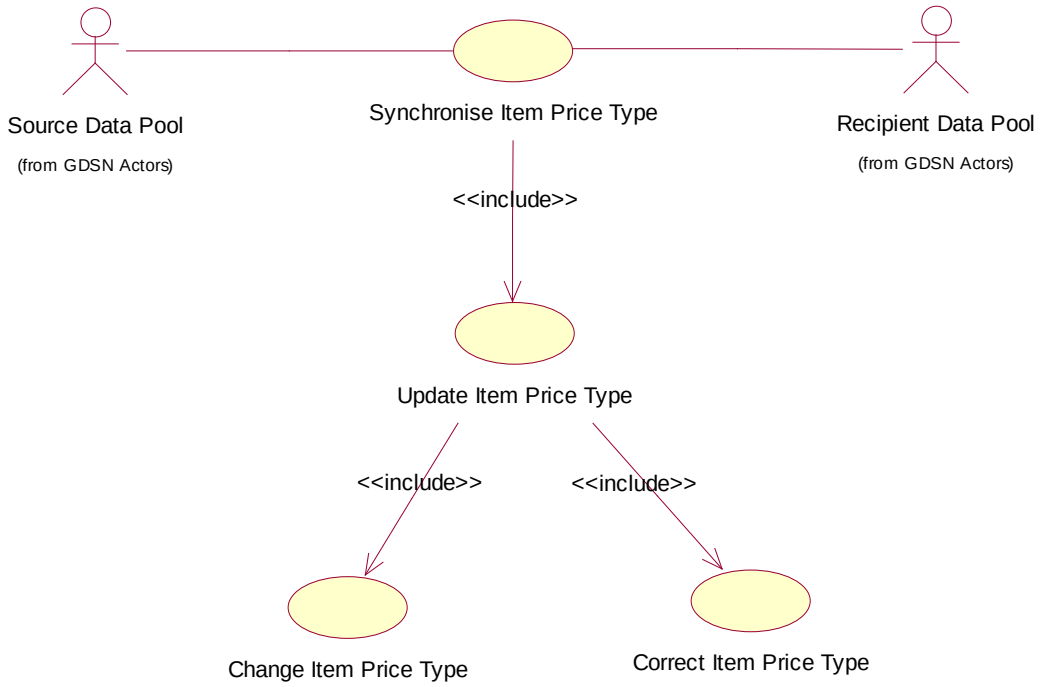
Use Case ID	UC-9
Use Case Name	Add Item Price Type
Use Case Description	This use case establishes an item depiction and any related price types.
Actors (Goal)	Data source, Source Data Pool, Recipient Data Pool, Data Recipient
Performance Goals	Establish an item depiction and all related price types for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

<table>
<tr><th>Use Case ID</th><th>UC-9</th></tr>
<tr><td>Scenario</td><td>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...
<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” (if the trading relationship has already been established) and the item depiction and price type segments with a segment action code of “add” to the RDP and updates the price synchronisation list.</td></tr>
<tr><td>3</td><td>RDP</td><td>Sends the price message to the data recipient.</td></tr>
<tr><td>4</td><td>Data Recipient</td><td>Receives the message and confirms the item depiction and price type segments by responding with an “accept” confirmation response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>5</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>6</td><td>SDP</td><td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td></tr>
</table>
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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
<tr><td>Related Rules</td><td>
<table>
<tr><td>1</td><td>The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.</td></tr>
<tr><td>2</td><td>Header segment is mandatory and must be sent with this message.</td></tr>
<tr><td>3</td><td>Relationship Segment and Condition Segment is not needed in a price synchronisation message to send Item Depiction and Price Type.</td></tr>
<tr><td>4</td><td>Cannot send Item Depiction and Price Type if the Trading Relationship has been rejected.</td></tr>
<tr><td>5</td><td>A targeted condition in the Item Price Type must have a prior confirmation status of accept, synchronize or review except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.</td></tr>
<tr><td>6</td><td>A targeted price type in the Item Price Type segment must have a prior confirmation status of accept, synchronize or review except when a</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-9	
		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 accept are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system; reject – message received and the data recipient does not wish to receive the price information for the given GTIN. If no response is made the SDP will stop price synchronisation.
	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".
	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 'Accepted' 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.

Use Case ID	UC-9	
	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.
	25	Any rejection of a targeted price type would result in the rejection of the targeting price type.

4.16. Use Case Diagram – Update Item Price Type



4.17. Use Case Definitions – 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><th>Use Case ID</th><th>UC-10</th></tr>
<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 an “accept” confirmation response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>5</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>6</td><td>SDP</td><td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td></tr>
</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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
<tr><td>Related Rules</td><td>
<table>
<tr><td>1</td><td>Header segment is mandatory and must be sent with this message.</td></tr>
<tr><td>2</td><td>If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.</td></tr>
<tr><td>3</td><td>Confirmation status codes other than accept are: review – message received and no action taken yet; synchronized – message received and implemented into the backend system; reject – message received and the data recipient does not wish to receive the price information for the given GTIN.
If no response is made the SDP will stop price synchronisation.
Can only send a reject if related to a specific catalogue item. This is used in the event that the data recipient does not wish to synchronise pricing for the indicated catalogue item.</td></tr>
<tr><td>4</td><td>Start Effective Date cannot be modified.</td></tr>
<tr><td>5</td><td>Start Effective Date can be corrected if it is not yet in effect (future date).</td></tr>
<tr><td>6</td><td>Cannot send Item Depiction and Price Type if the Trading Relationship</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-10	
		has been rejected.
	7	A targeted condition in the Item Price Type must have a prior confirmation status of accept, synchronize or review except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.
	8	A targeted price type in the Item Price Type segment must have a prior confirmation status of accept, synchronize or review except when a segment is first synchronized (as an Add). In this case, it may also be targeted in the same file without the requirement of a prior confirmation status.
	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 ‘Accepted’ 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.

Use Case ID	UC-10	
	14	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.
	15	Reason code is conditional on the confirmation status being “Review”. If reason code is present, ensure that confirmation status in “Review”.
	16	For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.
	17	Any rejection of a targeted price type would result in the rejection of the targeting price type.

4.18. Use Case Definitions – 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.
Scenario	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...

Step #	Actor	Activity Step
1	SDP	Performs necessary validations.
2	SDP	Creates a price synchronisation message using document command of “CHANGE_BY_REFRESH” and the item depiction and price type segments with a segment action code “Delete” and updates the price synchronisation list.
3	RDP	Sends the price message to the data recipient.
4	Data Recipient	Receives the message and confirms the withdrawal of the item depiction and price type segments by responding with an “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... item depictions and/or any related price types have been withdrawn.

<table>
<tr><th>Use Case ID</th><th>UC-11</th></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>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
<tr><td>Related Rules</td><td>
<table>
<tr><td>1</td><td>Header segment is mandatory and must be sent with this message.</td></tr>
<tr><td>2</td><td>If Document Header Command = CHANGE_BY_REFRESH, then Price Document ID must be greater than “1”.</td></tr>
<tr><td>3</td><td>A confirmation status of “REJECTED” is not valid for a withdrawal of a Price Type.</td></tr>
<tr><td>4</td><td>A confirmation status of “REVIEW” is not valid for a withdrawal or a Price Type.</td></tr>
<tr><td>5</td><td>No response means that no further synchronisation can occur.</td></tr>
<tr><td>6</td><td>Condition segment is not required.</td></tr>
<tr><td>7</td><td>Relationship segment is not required.</td></tr>
<tr><td>8</td><td>The Item Price Segment is mandatory if the Item Depiction qualifier has been populated.</td></tr>
<tr><td>9</td><td>When the Item Price Type Segment Action Code = Delete
•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.</td></tr>
<tr><td>10</td><td>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>
<tr><td>11</td><td>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 ‘Accepted’ 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.</td></tr>
<tr><td>12</td><td>For the Price Synchronisation Message, the Segment Action Code of “CHANGE_BY_REFRESH” assumes full refresh of the message segment only.</td></tr>
</table></td></tr>
</table>

4.19. Use Case Definitions – Discontinue an Item Price Type

<table>
<tr><th>Use Case ID</th><th>UC-12</th></tr>
<tr><td>Use Case Name</td><td>Discontinue Item Price Type</td></tr>
<tr><td>Use Case Description</td><td>This use case deletes existing item depictions and/or any related price types that are already in effect.</td></tr>
<tr><td>Actors (Goal)</td><td>Data source, Source Data Pool, Recipient Data Pool, Data Recipient</td></tr>
<tr><td>Performance Goals</td><td>Discontinues existing item depictions and/or any related price types.</td></tr>
<tr><td>Preconditions</td><td>Price synchronisation relationship exists and existing item depictions and/or any related price types have been accepted by data source.</td></tr>
<tr><td>Post conditions</td><td>Item depictions and/or any related price types have been discontinued.</td></tr>
<tr><td>Scenario</td><td>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...
<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 “CHANGE_BY_REFRESH” and updates the price synchronisation list.</td></tr>
<tr><td>3</td><td>RDP</td><td>Sends the price message to the data recipient.</td></tr>
<tr><td>4</td><td>Data Recipient</td><td>Receives the message and confirms the discontinuation of the item depiction and price type segments by responding with an “accept” confirmation response. The confirmation response message is sent to the RDP.</td></tr>
<tr><td>5</td><td>RDP</td><td>Sends the confirmation response message to the SDP.</td></tr>
<tr><td>6</td><td>SDP</td><td>Updates the price synchronisation list and sends the confirmation response message to the data source.</td></tr>
</table>
Ends when... the item depiction and price type segments 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 accept. See related requirements below for status codes and their actions.</td></tr>
</table></td></tr>
<tr><td>Related Requirements</td><td>
<table>
<tr><td></td><td>Not Applicable</td></tr>
</table></td></tr>
</table>

Use Case ID	UC-12
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 'Accepted' 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.

4.20. Use Case Definitions – Add Trading Relationship

4.21. Business Transaction Activity Diagram(s)

Not Applicable

4.22. Business Transaction Sequence Diagram(s) (optional)

Not Applicable

5. Information Model (Including GDD Report)

5.1. GDD Report

Price Synchronisation Document

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
BracketQualifier				Bracket Qualifier. Details	Identifiers conditions required to be met to qualify for a bracket.			
	bracketOperator			Bracket Qualifier. Bracket Operator. Code Value_ Text	A function to identify the logical relationship between multiple bracket qualifiers (And/Or).	0..1	{ref 1} 49	
	bracketRangeQualifierCode			Bracket Qualifier.Bracket Range Qualifier Code. Bracket Range Qualifier_Code	Specifies whether the bracket range is based upon an amount, a measurement or another quantity	1..1	{ref 1} 48	
	bracketTierMaximum			Bracket Qualifier. Bracket Tier Maximum. Total_Quantity	The upper limits for qualification for a bracket.	0..1	{ref 1} 47	
	bracketTierMinimum			Bracket Qualifier. Bracket Tier Minimum. Total_Quantity	The lower limit for qualification for a bracket.	1..1	{ref 1} 46	
ConditionTargetEntity				Condition Target Entity. Details	Provides the specific item or groups of items that the condition applies to.			
	classificationCategoryCode			Condition Target Entity. Classification Category Code. Text	The classification category associated with a specific condition.	1..*	Not Applicable	
		None	CatalogueItemReference	Condition Target Entity. Choice_ Association. Catalogue Item Identification	Associates one or many catalogue items with a price type.	1..*	Not Applicable	
ConditionValueInformation				Condition Value Information. Details	Provides the quantity or value associated with the condition for example 7 percent.			
	conditionValue			Condition Value Information.Condition Value.Total_Quantity	Provides a value or percent associated with a condition.	1..1	{ref 1} 37	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	conditionValueType			Condition Value Information.Condition Value Type.Component Value Type_Code	A classification of the price component used to determine how to apply the amount for example value, rate or percent.	1..1	{ref 1} 36	
	conditionValueCap			Condition Value Information. Condition Value Cap. Float_ Numeric	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.	0..1	{ref 1} 39	
IncotermInformation				Incoterm. Details	Incoterm is an abbreviation for International Commercial Terms. The International Chamber of Commerce created and manages the Incoterms and their definitions. There are 13 available for use in the buyer-seller contractual agreements.			
	incotermCode			Incoterm. Incoterm Code. Incoterm_ Code	Incoterms is an abbreviation for International Commercial Terms. The International Chamber of Commerce created and manages the Incoterms and their definitions. There are 13 available for use in the buyer-seller contractual agreements. Incoterm references may be selected from an enumerated list.	1..1	{ref 1} 25	
	incotermCodeLocation			Incoterm. Incoterm Code Location. Text	A description of the location required by an Incoterm.	1..1	{ref 1} 26	
ItemDepictionQualifier				Item Depiction Qualifier. Details	A price synchronisation message segment used to show how the pricing information would be depicted on an invoice.		{ref 1} 50	
		None	CatalogueItemReference	Item Depiction Qualifier. Association. Catalogue Item Identification	Associates a price type with a catalogue item.	1..1	{ref 1} 51	
		None	ItemPriceType	Item Depiction Qualifier. Association. Item Price Type	Associates one or many item price types with an item depiction qualifier.	1..*	{ref 1} 57	
ItemPriceType				Item Price Type. Details	Contains details of a price component associated with an item.			

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	alternateLocationGrouping			Item Price Type. Alternate Location Grouping. Text	A string of characters used to describe a cluster of business locations mutually defined by the Information Provider and the Party Receiving Private Data.	0..1	{ref 1} 67	
	distributionMethodCode			Item Price Type. Distribution Method Code. Code	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.	1..1	{ref 1} 63	
	extension			Price Synchronisation Condition.Extension.Extension_ Text	An extension point for a Price Synchronisation Condition.	0..1	{ref5}	
	invoiceIssuer			Item Price Type. Invoice Issuer. GLN_Identifier	The party who issues the invoice for the trade item according to the price synchronised.	0..1	{ref 4} 10	
	isBulkUpdate			Item Price Type. Is Bulk Update. Indicator	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.	0..1	{ref 4} 13	
	orderFrom			Item Price Type. Order From. GLN_Identifier	The location that the item can be ordered from according to the price synchronised.	0..*	{ref 4} 10	
	priceActionCode			Item Price Type. Price Action Code. Segment Action_ Code	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.	1..1	{ref 1} 54	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	priceActionReason			Item Price Type. Price Action Reason. Price Action Reason Code_ Code	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.	0..1	{ref 1} 55	
	priceTargetMarketSubdivision			Item Price Type. Price Target Market Subdivision. ISO3166_2_ Code	The code for country sub-division used to indicate the geo-political subdivision of the target market (=country).	0..*	{ref 1} 64	
	priceTypeApplicationSequence			Item Price Type. Price Type Application Sequence. Integer_ Numeric	The order in which the value associated with a price type is applied in the process of calculating the net invoice price.	1..1	{ref 1} 78	
	priceTypeCode			Item Price Type. Price Type Code. Text	A code assigned to identify the kind or class of a price component.	1..1		Unbounded
	priceTypeDescription			Item Price Type. Price Type Description. Text	Text used to provide an additional description of the price component.	0..1	{ref 1} 58	
	priceTypeLastChangedDateTime			Item Price Type. Last Changed Date Time. Date Time	Identifies a certain point in time where the segment was last modified.	1..1	{ref 4} 12	
	shipFrom			Item Price Type. Ship From. GLN_ Identifier	Identifies the origin location from where the goods will be shipped.	0..*	{ref 1} 66	
	shipTo			Item Price Type. Ship To. GLN_ Identifier	The location destination to which goods will be shipped.	0..*	{ref 1} 65	
	suggestedUnitRetailPrice			Item Price Type. Suggested Unit Retail Price. Amount	The retail (to consumer) price as suggested by the manufacturer. This is normally used to establish a proposed value for the trade item for marketing purposes. May or may not appear on the package.	0..1	{ref 1} 76	
		None	BracketQualifier	Item Price Type. Association. Bracket Qualifier	Provides qualifiers required for eligibility for a price type of bracket.	0..*	Not Applicable	
		parentCatalogueItem	CatalogueItemReference	Item Price Type. Parent Catalogue Item. Catalogue Item Identification	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.	0..1	{ref 1} 56	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
		itemPriceTypeSegmentIdentification	EntityIdentification	Item Price Type. Item Price Type Segment Identification. Entity Identification	A string of characters assigned by the Information Provider to uniquely identify a price component associated with an item.	1..1	{ref 1} 53	
		targetCondition	EntityIdentification	Item Price Type. Target Condition. Entity Identification	A reference to a previous Condition Identification that was used to define the Bracket Qualifiers - references back to the summary condition Identification.	0..1	{ref 1} 68	
		targetPriceType	EntityIdentification	Item Price Type. Target Price Type. Entity Identification	A reference to a previous Price Type Identification that was used to define a component that this price is associated with.	0..1	{ref 1} 69	
		None	PricePerformanceRequirementInformation	Item Price Type. Association. Price_ Performance Requirement Information	Provides performance requirements for a price type.	0..*	Not Applicable	
		None	PriceValueInformation	Item Price Type. Association. Price Value Information	Provides the numeric values associated with a price for example 5 percent.	1..1	Not Applicable	
		None	ReferenceDocumentInformation	Item Price Type. Association. Reference Document Information	Provides reference information related to a given price for example a contract number.	0..*	Not Applicable	
		priceTypeEffectiveEndDate	SegmentEffectiveEndDate	Item Price Type. Price Type Effective End Date. Segment Effective End Date	Provides end date details for a given price type.	0..*	{ref 1} 61	
		priceTypeEffectiveStartDate	SegmentEffectiveStartDate	Item Price Type. Price Type Effective Start Date. Segment Effective Start Date	Provides details on start dates for a given price type.	1..*	{ref 1} 59	
PricePerformanceRequirementInformation				Price_ Performance Requirement Information. Details	A list of requirements which are types of price components to be met to receive a monetary value.			
	performanceRequirementDescription			Price_ Performance Requirement Information. Performance Requirement Description. Text	A string of characters used to describe additional or more specific requirements to be met in order to receive a monetary value.	0..1	{ref 1} 83	Min 1 Max 70

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
		None	PricePerformanceRequirementOption	Price_ Performance Requirement Information. Association. Price Performance Requirement Option	Associates a performance requirement option and or dates with a performance requirement.	0..1	Not Applicable	
PricePerformanceRequirementOption				Price Performance Requirement Option. Details	Standardized list of requirements which are types of price components to be met to receive a monetary value.			
	performanceRequirementEndDateTime			Price Performance Requirement Option. Performance Requirement End Date Time. Date Time	A date indicating the ending of a period during which the performance requirements should be met.	1..1	{ref 1} 86	
	performanceRequirementOption			Price Performance Requirement Option. Performance Requirement Option. Text	Standardized list of requirements which are types of price components to be met to receive a monetary value.	0..1	{ref 1} 82	Unbounded
	performanceRequirementStartDateTime			Price Performance Requirement Option. Performance Requirement Start Date Time. Date Time	A date indicating the beginning of a period during which the performance requirements should be met.	1..1	{ref 1} 85	
PriceSynchronisationCondition				Price Synchronisation Condition. Details	A price synchronisation message segment used to depict non- line-item conditions and summary conditions.			
	conditionActionCode			Price Synchronisation Condition. Condition Action Code. Segment Action_ Code	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.	1..1	{ref 1} 29	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	conditionApplicationSequence			Price Synchronisation Condition. Condition Application Sequence. Numeric	The order in which the value associated with a summary condition type of allowance or charge, is applied in the process of calculating the net invoice price.	0..1	{ref 1} 42	
	conditionDescription			Price Synchronisation Condition. Condition Description. Text	Text used to provide an additional description of the condition.	1..1	{ref 1} 35	Unbounded
	conditionLastChangedDateTime			Item Price Type. Last Changed Date Time. Date Time	Identifies a certain point in time where the segment was last modified.	1..1	{ref 4} 12	
	conditionType			Price Synchronisation Condition. Condition Type. Text	Condition types are general classifications for a given condition. The treatment of the values in a price calculation is determined by the Condition Type.	1..1	{ref 1} 34	Unbounded
	conditionValueBasisQuantity			Price Synchronisation Condition. Condition Value Basis. Measure	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.	0..1	{ref 1} 40	
	distributionMethodCode			Price Synchronisation Condition.Distribution Method Code.Distribution Method_ Code	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.	0..*	{ref5}	
	invoiceIssuer			Price Synchronisation Condition. Invoice Issuer. GLN_Identifier	The party who issues the invoice for the trade item according to the condition synchronised.	0..1	{ref 4} 10	
	isBulkUpdate			Price Synchronisation Condition. Is Bulk Update. Indicator	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.	0..1	{ref 4} 13	
	orderFrom			Price Synchronisation Condition. Order From. GLN_Identifier	The location that the item can be ordered from according to the condition synchronised.	0..*	{ref 4} 10	
	tradeItemGroupIdentificationCode			Price Synchronisation Condition.Trade Item Group Identification Code.Text	A code assigned by the supplier or manufacturer to logically group trade item independently from the Global trade item Classification.	0..*		Min 1 Max 20

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
		None	BracketQualifier	Price Synchronisation Condition. Association. Bracket Qualifier	Provides conditions for being qualified for a given bracket.	0..*		
		None	ConditionTargetEntity	Price Synchronisation Condition. Association. Condition Target Entity	Provides an item of grouping of items associated with a price condition	0..1	{ref 1} 43	
		None	ConditionValueInformation	Price Synchronisation Condition. Association. Condition Value Information	Provides a percentage or value associated with a given condition for example 15 percent.	0..1	Not Applicable	
		priceSynchronisationConditionIdentification	EntityIdentification	Price Synchronisation Condition. Price Synchronisation Condition Identification. Entity Identification	A string of characters assigned by the Information Provider to uniquely identify a summary condition or an item condition of type bracket.	1..1	{ref 1} 28	
		conditionEffectiveEndDate	SegmentEffectiveEndDate	Price Synchronisation Condition. Condition Effective End Date. Segment Effective End Date	Provides the effective end date and context for a price synchronisation condition	0..*	{ref 1} 32	
		conditionEffectiveStartDate	SegmentEffectiveStartDate	Price Synchronisation Condition. Condition Effective Start Date. Segment Effective Start Date	Provides the effective start date and context for a price synchronisation condition.	1..*	{ref 1} 30	
PriceSynchronisationDocument				Price Synchronisation Document. Details	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.			
	informationProvider			Price Synchronisation Document. Information Provider. GLN_ Identifier	The party who owns the data.	1..1	{ref 1} 6	
	partyReceivingPrivateData			Price Synchronisation Document. Party Receiving Private Data. GLN_ Identifier	Party, which is authorized to view, use, download the data provided by a Data Source.	1..1	{ref 1} 7	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	priceDocumentType			Price Synchronisation Document. Price Document Type. Price Document Type_ Code	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.	0..1	{ref 1} 8	
		None	Document	Price Synchronisation Document. Association. Document	Not Applicable	1..1	Not Applicable	
		priceSynchronisationDocumentIdentification	EntityIdentification	Price Synchronisation Document. Price Synchronisation Document Identification. Entity Identification	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.	1..1	{ref 1} 4	
		priceSynchronisationRelationshipIdentification	EntityIdentification	Price Synchronisation Document. Price Synchronisation Relationship Identification. Entity Identification	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.	1..1	{ref 1} 5	
		None	ItemDepictionQualifier	Price Synchronisation Document. Association. Item Depiction Qualifier	Provides one or more item depictions for a price synchronisation document.	0..*	Not Applicable	
		None	PriceSynchronisationCondition	Price Synchronisation Document. Association. Price Synchronisation Condition	Provides one or many price synchronisation conditions for a price synchronisation document.	0..*	Not Applicable	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
		None	PriceSynchronisationRelationship	Price Synchronisation Document. Association. Price Synchronisation Relationship	Provides the depiction of a price synchronisation relationship for a price synchronisation document.	0..1	Not Applicable	
PriceSynchronisationRelationship				Price Synchronisation Relationship. Details	A message segment used to establish a price synchronisation relationship between trading partners.			
	extension			Price Synchronisation Relationship.Extension. Extension_ Text	An extension point for a Price Synchronisation Relationship.	0..1		
	priceSynchronisationRelationshipName			Price Synchronisation Relationship. Price Synchronisation Relationship Name. Text	The name assigned by the buyer and seller to their price sync relationship.	0..1	{ref 1} 20	Unbounded
	relationshipActionCode			Price Synchronisation Relationship. Relationship Action Code. Code	Indicates how the trading partner applies the information in the specified segment.	1..1	{ref 1} 11	
	relationshipCurrencyCode			Price Synchronisation Relationship. Relationship Currency Code. ISO4217_ Code	A code used to indicate the system of money used within a particular country by the trading partners to conduct their commercial transactions.	1..1	{ref 1} 19	
	relationshipEffectiveEndDateTime			Price Synchronisation Relationship. Relationship Effective End Date Time. Date Time	The day on which the price synchronization relationship ends.	0..1	{ref 1} 13	
	relationshipEffectiveStartDateTime			Price Synchronisation Relationship. Relationship Effective Start Date Time. Date Time	The day on which the price synchronization relationship commences.	1..1	{ref 1} 12	
	relationshipLastChangedDateTime			Price Synchronisation Relationship. Last Changed Date Time. Date Time	Identifies a certain point in time where the segment was last modified.	1..1	{ref 4} 12	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	relationshipTradeChannel			Price Synchronisation Relationship. Relationship Trade Channel. Trade Channel_ Code	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.	1..1	{ref 1} 18	
	specialScenarioCode			Price Synchronisation Relationship. Special Scenario Code. Text	A specialised price synchronisation scenario that may be prevalent in a certain target market based 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 PriceSynchronisationSpecialScenarioCodeList.	0..*	{ref 4} 1	Min 1 Max 70
	targetMarketCountryCode			Price Synchronisation Relationship. Target Market Country Code. ISO3166_1_ Code	The target market code indicates the country level or higher geographical definition in which the price information is applicable.	1..1	{ref 1} 17	
		priceSynchronisationRelationshipIdentification	EntityIdentification	Price Synchronisation Relationship. Price Synchronisation Relationship Identification. Entity Identification	Identifies a unique buyer-seller price sync relationship generated by the data source.	1..1	{ref 1} 10	
		None	IncotermInformation	Price Synchronisation Relationship. Association. Incoterm	Provides incoterm details applicable to a trading partner relationship.	0..*	Not Applicable	
		businessLocation	PartyIdentification	Price Synchronisation Relationship. Business Location. Party Identification	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.	1..1	{ref 1} 16	
		informationProvider	PartyIdentification	Price Synchronisation Relationship. Information Provider. Party Identification	The party who owns the data.	1..1	{ref 1} 14	

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
		partyReceivingPrivateData	PartyIdentification	Price Synchronisation Relationship. Party Receiving Private Data. Party Identification	Party, which is authorized to view, use, download the data provided by a Data Source.	1..1	{ref 1} 15	
PriceValueInformation				Price Value Information. Details	None			
	priceBasisQuantity			Price Value Information. Price Basis Quantity. Measure	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.	1..1	{ref 1} 74	
	priceValue			Price Value Information. Price Value.Total_Quantity	Associates a percent or integer value with a price value.	1..1	{ref 1} 70	
	priceValueCap			Price Value Information. Price Value Cap. Float_ Numeric	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.	0..1	{ref 1} 71	
	priceValueQualifier			Price Value Information. Price Value Qualifier. Code	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'.	0..1	{ref 1} 73	
	priceValueType			Price Value Information. Price Value Type. Price Value Type_ Code	A classification of the price component used to determine how to apply the amount for example value, rate or percent.	1..1	{ref 1} 72	
ReferenceDocumentInformation				Reference Document Information. Details	This class enables the input of a reference document (e.g. contract) for a specific condition.			
	referenceDocumentIdentifier			Reference Document Information. Reference Document_ Identifier. Identifier	Identifier that provides a link to further detail on the price condition, for example an associated contract between trading partners.	1..1	{ref 1} 79	Unbounded

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements	Facets
	referenceDocumentDescription			Reference Document Information. Reference Document Description. Text	A free form text field used to describe a contract or other document which contains more information about agreements made regarding a condition.	0..1	{ref 1} 80	Min 1 Max 70
SegmentEffectiveEndDateInformation				Segment Effective End Date. Details	The effective end date and associated context (e.g. last order date) for a condition.			
	effectiveEndDateTime			Segment Effective End Date. Effective End Date Time. Date Time	A date\time used to indicate when the component depicted in the segment is no longer available for use.	1..1	Not Applicable	
	effectiveEndDateContextCode			Segment Effective End Date. Effective End Date Time Context. Effective End Date Context_ Code	An associated event which gives significance to the effective start date for a segment for example first order date.	1..1	Not Applicable	
SegmentEffectiveStartDateInformation				Segment Effective Start Date. Details	The start date and applicable context for the start date (first order date) for a condition type.			
	effectiveStartDateTime			Segment Effective Start Date. Effective Start Date Time. Date Time	The date on which the price synchronisation component begins.	1..1	Not Applicable	
	effectiveStartDateContextCode			Segment Effective Start Date. Effective Start Date Time Context. Code	An associated event which gives significance to the effective start date for a segment for example first order date.	1..1	Not Applicable	

Price Synchronisation Confirmation

Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
PriceSynchronisationConfirmation				Price Synchronisation Confirmation. Details	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.		

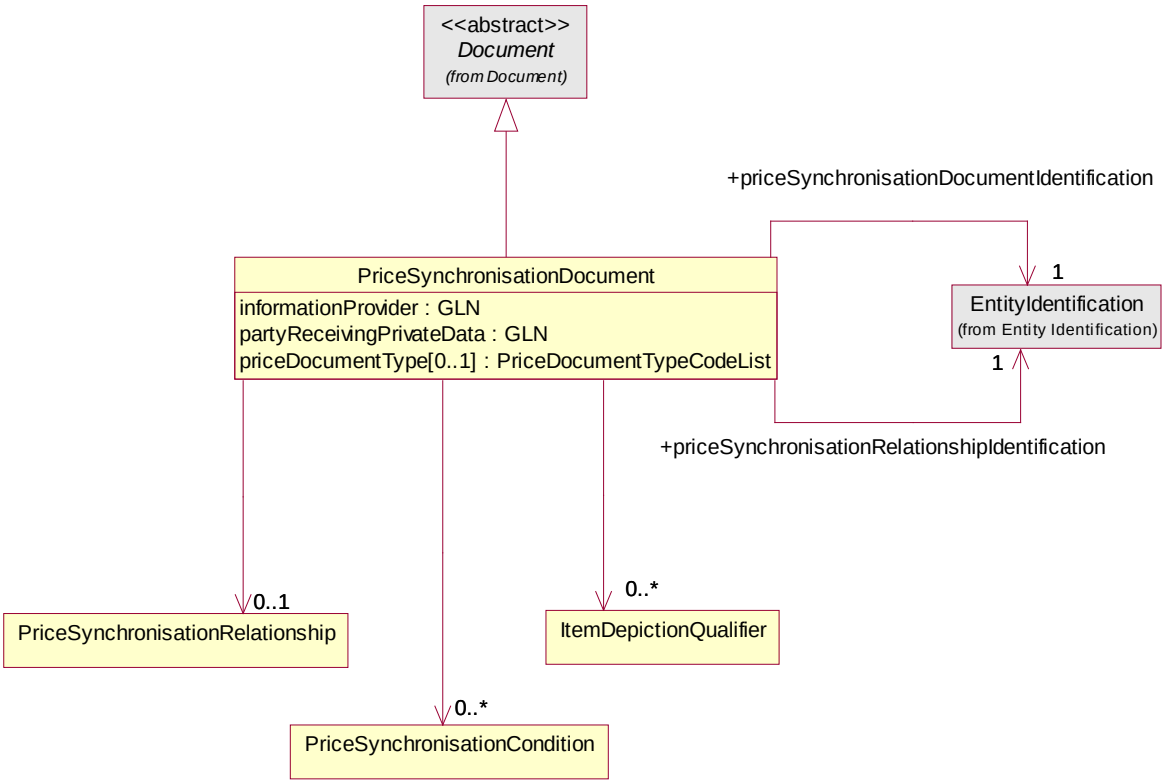
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
	dataRecipient			Price Synchronisation Confirmation. Data Recipient. GLN_ Identifier	The party receiving the private data (for example, retailer). This information is taken from the price synchronization header of the price message to which this confirmation is responding.	1..1	{ref 1} 2
	dataSource			Price Synchronisation Confirmation. Data Source. GLN_ Identifier	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.	1..1	{ref 1} 1
		None	Document	Price Synchronisation Confirmation. Association. Document	Not Applicable	1..1	Not Applicable
		priceSynchronisationConfirmationIdentification	EntityIdentification	Price Synchronisation Confirmation. Price Synchronisation Confirmation Identification. Entity Identification	Uniquely identifies the Price Synchronisation Confirmation	1..1	Not Applicable
		priceSynchronisationDocumentIdentification	EntityIdentification	Price Synchronisation Confirmation. Price Synchronisation Document Identification. Entity Identification	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).	1..1	{ref 1} 3
		priceSynchronisationRelationshipIdentification	EntityIdentification	Price Synchronisation Confirmation. Price Synchronisation Relationship Identification. Entity Identification	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).	1..1	{ref 1} 4

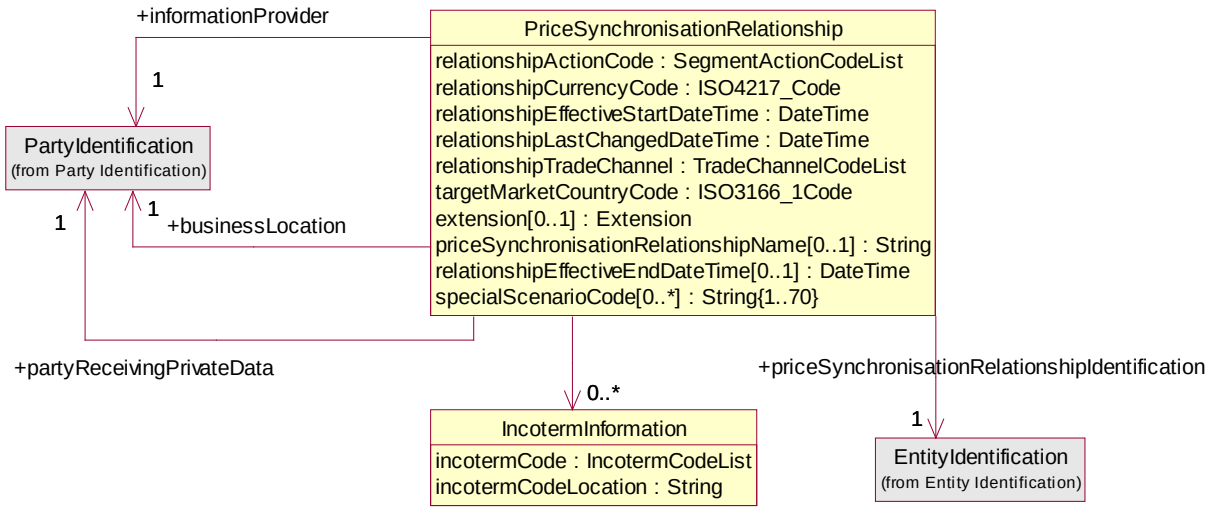
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		None	PriceSynchronisationSegmentConfirmation	Price Synchronisation Confirmation. Association. Price Synchronisation Segment Confirmation	Provides the confirmation status and the applicable price synchronisation segment.	1..*	Not Applicable
PriceSynchronisationConfirmationStatusReason				Price Synchronisation Confirmation Status Reason. Details	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.		
	actionNeeded			Price Synchronisation Confirmation Status Reason. Action Needed. Text	Identifies the type of action the data source needs to take in order to resolve the data recipient's issue.	1..1	{ref 1} 10
	confirmationStatusReasonCode			Price Synchronisation Confirmation Status Reason. Confirmation Status Reason Code. Text	Identifies the type issue the data recipient has with the value communicated in the attribute name.	1..1	{ref 1} 9
	priceAttributeName			Price Synchronisation Confirmation Status Reason. Price Attribute Name. Text	Name of the attribute in the Price Synchronization message.	0..1	{ref 1} 7
	priceAttributeValue			Price Synchronisation Confirmation Status Reason. Price Attribute Value. Text	Value sent in the price synchronisation message that is associated with the attribute name.	0..1	{ref 1} 8
PriceSynchronisationSegmentConfirmation				Price Synchronisation Segment Confirmation. Details	The synchronisation status for the price synchronisation relationship, condition or price segment.		
	priceSynchronisationConfirmationStatus			Price Synchronisation Segment Confirmation. Price Synchronisation Confirmation Status. Synchronisation Confirmation Status_ Code	Describes the data recipient's action taken on the information contained in a specific segment of the price synchronization message.	1..1	{ref 1} 6

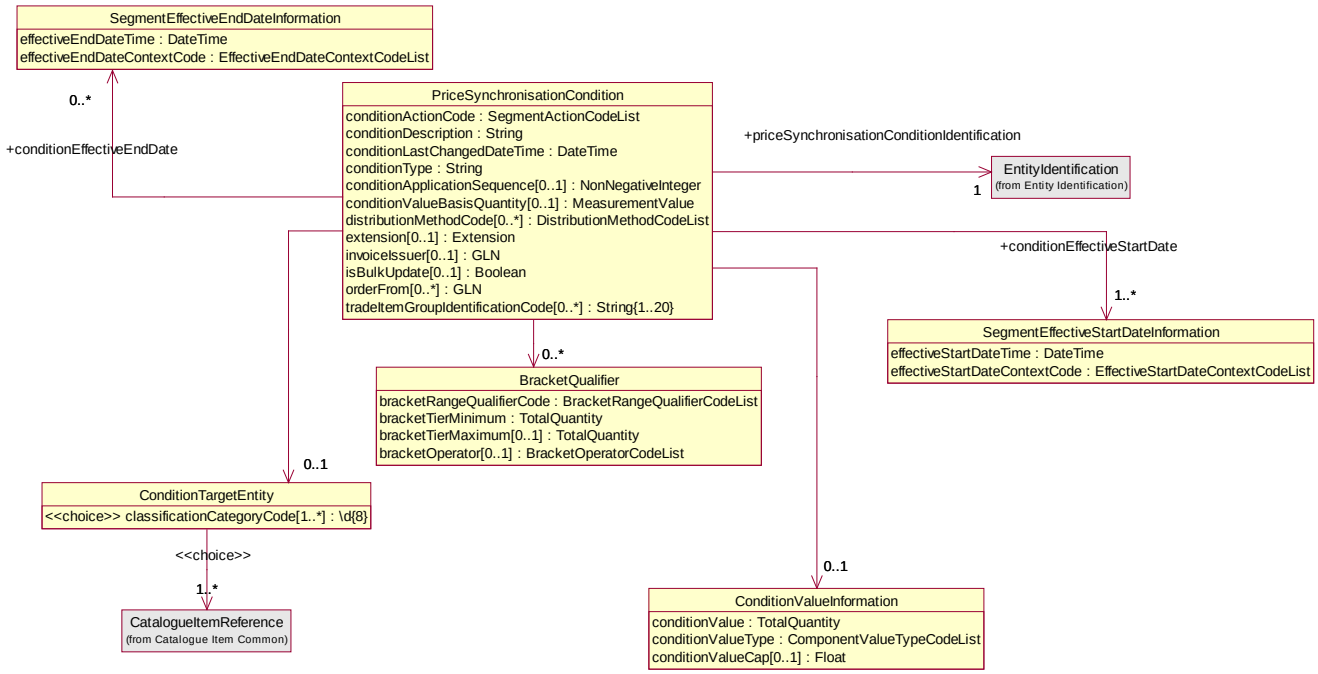
Class (ABIE)	Attribute (BBIE)	Association (ASBIE)	Secondary Class	Official Dictionary Entry Name	Definition	Multiplicity	Related Requirements
		itemPriceTypeSegmentIdentification	EntityIdentification	Price Synchronisation Segment Confirmation. Choice_ Item Price Type Segment Identification. Entity Identification	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).	1..1	{ref 1} 5
		priceSynchronisationConditionIdentification	EntityIdentification	Price Synchronisation Segment Confirmation. Choice_ Price Synchronisation Condition Identification. Entity Identification	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).	1..1	{ref 1} 5
		priceSynchronisationRelationshipIdentification	EntityIdentification	Price Synchronisation Segment Confirmation. Choice_ Price Synchronisation Relationship Identification. Entity Identification	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).	1..1	{ref 1} 5
		None	PriceSynchronisationConfirmationStatusReason	Price Synchronisation Segment Confirmation. Association. Price Synchronisation Confirmation Status Reason	Provides the reason, action required and relevant attributes and values connected with a synchronisation status.	0..*	Not Applicable

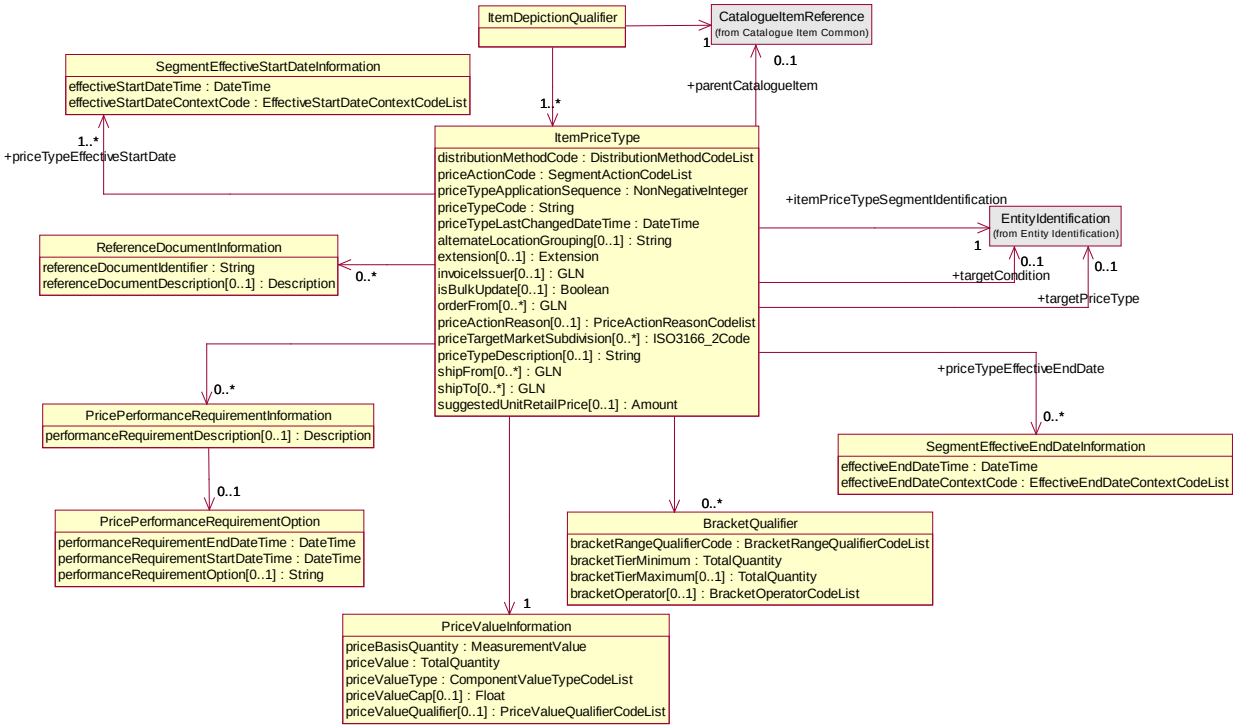
5.2. Class Diagrams

5.2.1. Class Diagrams: Price Synchronisation Document

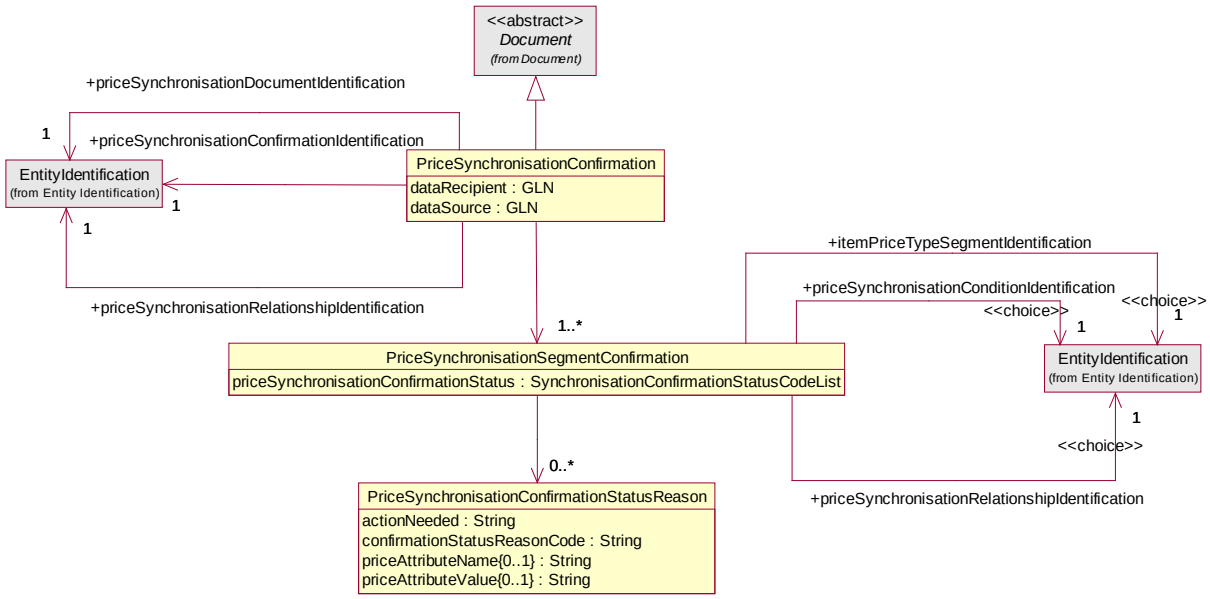








5.2.2. Class Diagrams: Price Synchronisation Confirmation



5.3. Code Lists

Code List Name	Code List Description
BracketOperatorCodeList	Determines the logical relationship between multiple bracket ranges.
Code Name	**Code Description**
AND	All previous qualifiers plus the current record.
OR	Any one qualifier but not more than one.

Code List Name	Code List Description
BracketRangeQualifierCodeList	Determines the type of range used to determine a bracket qualifier.
Code Name	**Code Description**
AMOUNT_RANGE	A range value with a currency.
MEASUREMENT_RANGE	A range value using a Unit Of Measure
RANGE	A numeric range.

Code List Name	Code List Description
ComponentValueTypeCodeList	A code which determines how the value associated with a price component is treated for a price calculation.
Code Name	**Code Description**
PERCENT	A part of a whole expressed in hundredths
RATE	A fixed ratio between two things.
VALUE	A numerical quantity that is assigned or is determined by calculation or measurement.

Code List Name	Code List Description
DistributionMethodCodeList	The means by which the supplier and retailer agree upon that at what point in the supply chain the supplier makes the goods available to the retailer.
Code Name	**Code Description**
CD	Cross Dock: The supplier picks and packs the goods per retail store location and delivers the goods to the retailers' distribution centre for transfer across the loading dock to local delivery vehicles. In this case the goods are not stored in the distribution centre.
D2C	Direct to Consumer: The supplier delivers the goods direct to the end consumer's location.
DC	Distribution Centre: The supplier delivers the goods to the retailers' distribution centre. The goods are typically warehoused in the distribution centre prior to distribution.
DSD	Direct Store Delivery: The supplier delivers the goods direct to the retailers' retail store location.

Code List Name	Code List Description
FG	Factory Gate: The supplier makes the goods available to the retailer at the supplier's loading dock (factory gate). The retailer assumes responsibility for planning, scheduling, collection and transportation of the goods.
UNS	Unspecified

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

Code List Name	Code List Description
EffectiveStartDateContextCodeList	A code to indicate the related circumstances associated with the effective start date.
Code Name	Code Description
AD_ START_ DATE	The start date for an advertisement for a given product.
FIRST_ DELIVERY_ DATE	The day on which the first delivery is made. Also know as First Arrival Date.
FIRST_ORDER_ DATE	It indicates the earliest date that an order can be placed for the trade item.
FIRST_SHIP_ DATE	It indicates the earliest date that the trade item can be shipped. This is independent of any specific ship-from location.

Code List Name	Code List Description
IncotermCodeList	Incoterms is an abbreviation for International Commercial Terms. The International Chamber of Commerce created, owns and manages the Incoterms and their definitions.
Code Name	**Code Description**
CFR	Cost and Freight
CIF	Cost, Insurance and Freight
CIP	Carriage and Insurance Paid To
CPT	Carriage Paid To
DAF	Delivered at Frontier
DDP	Delivered Duty Paid
DDU	Delivered Duty Unpaid
DEQ	Delivered Ex Quay

Code List Name	Code List Description
DES	Delivered Ex Ship
EXW	Ex Works
FAS	Free Alongside Ship
FCA	Free Carrier
FOB	Free On Board

Code List Name	Code List Description
PriceActionReasonCode	The reason as to why an action related to a Price Type has occurred.
Code Name	**Code Description**
NI	The introduction of a new item.
PD	Price decrease.
PI	A price increase.
RE	Range extension.
SC	Size change (Pack or Pallet).
TPR	Temporary price reduction.

Code List Name	Code List Description
PriceDocumentTypeCodeList	A code assigned by the information provider needed to indicate to the party receiving private data the intended use or purpose of sending the price synchronization message. The party receiving private data is able to use this code to determine how to process the information contained within the message.
Code Name	**Code Description**
INITIAL_LOAD	The sending of pricing information for the first time.
RELOAD	Sending all current and known future pricing. This is used to start over by replacing previously synchronised information.
RESEND	Indicates that the message is used to recover a lost or missing message.
RESTART	The status used when a data recipient had rejected an item's pricing but wishes to resume price synchronisation.

Code List Name	Code List Description
PriceValueQualifier	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', if the Swell Allowance was 1 Euro, the Condition Value Qualifier would be 'monetary amount'
Code Name	**Code Description**
MONETARY_AMOUNT	An amount of or relating to money.
PERCENT	One part in a hundred.

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

Code List Name	Code List Description
SynchronisationConfirmationStateCodeList	The four states of synchronisation reflected by a Recipient Data Pool.
Code Name	**Code Description**
ACCEPTED	Data has been received by the Recipient, but no business decision has been made on the data.
REJECTED	The recipient requests that no further updates are desired. Data will no longer be synchronized or updates will no longer be provided.
REVIEW	A request to the data source to "review" their data because the data recipient has received discrepant data which they cannot synchronise.
SYNCHRONISED	Data is integrated, in sync and added to the synchronisation list.

Code List Name	Code List Description
TradeChannelCodeList	A grouping of entities by common business model concentration to form a trade channel or industry sector.
Code Name	Code Description
CONVENIENCE	Small format retail store often outside or annexed to a gas/fuel station.
DRUG	Organisations or departments engaged in retailing prescription or non-prescription drugs and medicines.
FOOD_SERVICE	Trade channel that sells prepared food, for example restaurants, hotels, clubs.
GROCERY	Organisations or departments primarily engaged in retailing a general line of food products.
HARD_LINES	Organisations or departments primarily engaged in retailing a general line of hardware items, such as tools and builders' hardware.
HOME_GOODS	Not available
INDUSTRIAL	Not Available
INSTITUTIONAL	Not Available
MASS_MERCHANDISING	Organisations or departments primarily engaged in high volume, fast turnover variety of merchandise.
MILITARY	Sale of items to the military.
UNSPECIFIED	Trade Channel unknown or not relevant.
VENDING	The retailing merchandise through vending machines.

6. Business Document Example

Not Applicable

7. Implementation Considerations

7.1. External Code Lists

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

Code List Name	Code List Description
PriceTypeCodeList	A code list containing values assigned to identify the kind or class of a price component.
Code Name	**Code Description**
ALLOWANCE	Credit reflected on an invoice. This can occur either at the item or the invoice level. There are many types of allowances. Some are contractually based, e.g. backhaul, others are not formalized contracts. Some allowances are offered to the industry such as payment terms while others such as promotional allowances are trading partner specific.
BRACKET_TIER_PRICE	The price associated with an item for the purchase of a specific number of trade items, or some other logistical measure (weight, cube, truck). These are often offered in a series (e.g. 100 to 299 case lots, 300 to 599, full truckload, half truckload; each offering a different discount).
CHARGE	Debit reflected on an invoice. This can occur either at the item or at the invoice level. There are many types of charges. Some are contractually based, others are not formalized contracts.
CONTRACT_PRICE	The price associated with an item that has been negotiated or agreed to between trading partners exclusive of taxes but inclusive of allowances, charges and customs duty where applicable. This price would typically be associated with a formal contract between trading partners.
DECLARED_CUSTOMS_VALUE	This is the value of the item as declared by the supplier. This value is used by customs to calculate the customs duty that is payable.
INTRODUCTORY_PRICE	Not Available
LIST_PRICE	External price associated with a product absent of all allowances or charges. This is normally the printed price contained on supplier's price list or catalogue. (May or may not be customer specific).
OTHER	An unspecified type.
PROMOTIONAL_PRICE	Not Available
RETAIL_PRICE	Not Available
TRANSACTION_PRICE	The line item/GTIN price shown on the invoice document, including allowances and/or charges applying to the trading partner relationship (which can be zero), but excluding VAT and any other taxes, fees, and/or duties.
TRANSACTION_PRICE_WITH_SPECIAL_TAXES	The line item / GTIN price shown on the invoice document, including allowances and/ or charges applying to the trading partner relationship (which can be zero), excluding VAT, but including any other taxes, fees, and/or duties.
TRANSACTION_PRICE_WITH_VAT_AND_SPECIAL_TAXES	The line item / GTIN price shown on the invoice document, including allowances and/ or charges applying to the trading partner relationship (which can be zero), including both VAT and any other taxes, fees, and/or duties.

Code List Name	Code List Description
UNDERBOND_LIST_PRICE	The price associated with an item exclusive of all allowances, charges, taxes and customs duty. (May or may not be customer specific). This applies to imported items that upon arrival into the country are stored in a Customs bonded warehouse. The goods are then sold without the customs duty paid. The purchaser must pay the customs duty.
UNDERBOND_TRANSACTION_ PRICE	The price associated with an item exclusive of all taxes and customs duty but inclusive of all allowances and charges. This applies to imported items that upon arrival into the country are stored in a Customs bonded warehouse. The goods are then sold without the customs duty paid. The purchaser must pay the customs duty.

Code List Name	Code List Description
PerformanceRequirementOptionCodeList	Standardized list of requirements which are types of price components to be met to receive a monetary value.
Code Name	**Code Description**
AISLE_DISPLAY	Not Available
BILLBOARD_AD	Not Available
BOGO	Not Available
CHART	Not Available
COUPON	Not Available
DIRECT_MAIL	Not Available
DUMP_BIN	Not Available
END_CAP_DISPLAY	Not Available
FLOOR_GRAPHICS	Not Available
FLOOR_STACK	Not Available
FLYER	Not Available
FREE_ITEM	Not Available
GONDOLA_DISPLAY	Not Available
IN_STORE_ SPECIAL	Not Available
IN_STORE_DEMO _SAMPLE	Not Available
IN_STORE_DISPENSER	Not Available
INSERT	Not Available
INSTANT_ REBATE	Not Available
INTERNET_AD	Not Available
ITEM_INTRO	Not Available
MAIL_IN_REBATE	Not Available
MEMBERSHIP_CARD	Not Available
NEWSPAPER_AD	Not Available
ON_COUNTER	Not Available

Code List Name	Code List Description
OTHER	An unspecified type.
PERIMETER_DISPLAY	Not Available
PURCHASE_WITH_ PURCHASE	Not Available
RACK_DISPLAY	Not Available
RADIO_AD	Not Available
RETAILER_CIRCULAR	Not Available
SCANNER	Not Available
SHELF_EXTENDER	Not Available
SHIPPER_DISPLAY	Not Available

Code List Name	Code List Description
PriceSynchronisationSpecialScenarioCodeList	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 this scenario.
Code Name	**Code Description**
1	Resynchronisation of all Price Types for pricing done at the lowest level consumer unit. Uses NO_ACTION code to differentiate price types that have changed from those that have not.

7.2. Price Update Processes

7.2.1. 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.

7.2.2. 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
- Accepted/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

7.2.3. 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.

7.2.4. Reload

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

7.2.5. 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.

7.3. Price Sequencing Rules

7.3.1. 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.

7.3.2. 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.

7.4. 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)

7.5. 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.

7.5.1. 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.

8. Testing

This section describes the testing criteria for business solutions.

8.1. Pass / Fail Criteria

Not Applicable

8.2. Test Data

8.2.1. Price Synchronisation Document

Attribute	Value
PriceSynchronisationDocument	
• informationProvider	0012345000010
• partyReceivingPrivateData	0056345000022
• priceDocumentType	INITIAL_LOAD
• priceSynchronisationDocumentationIdentification	
o uniqueCreatorIdentification	WG-000001
o contentOwner	0012345000010
• priceSynchronisationRelationshipIdentification	
o uniqueCreatorIdentification	WG-000002
o contentOwner	0012345000010
PriceSynchronisationRelationship	
• PriceSynchronisationRelationshipIdentification	
o uniqueCreatorIdentification	WG-000003
o contentOwner	0012345000010
• priceSynchronisationRelationshipName	Nana Corporation Food Service
• relationshipActionCode	ADD
• relationshipCurrencyCode	USD
• relationshipEffectiveEndDateTime	2007-01-10T12:00:01.000
• relationshipEffectiveStartDateTime	2006-01-10T12:00:01.000
• relationshipTradeChannel	FOOD_SERVICE
• targetMarketCountryCode	US
• informationProvider	0012345000010
• businessLocation	0012345000010
• partyRecievingPrivateData	0056345000022
IncotermInformation	
• incotermCode	CFR
• incotermCodeLocation	Port Charlotte

Attribute	Value
PriceSynchronisationCondition	
• conditionActionCode	ADD
• conditionApplicationSequence	1
• conditionDescription	Extremely Large Order Bracket
• conditionType	BRACKET
• conditionValueBasisQuantity	10,000 YD
PriceSynchronisationConditionIdentification	
o uniqueCreatorIdentification	WG-000007
o contentOwner	0012345000010
conditionEffectiveStartDateInformation	
• effectiveStartDateTime	2006-01-10T12:00:01.000
• effectiveStartDateContextCode	FIRST_DELIVERY_DATE
conditionEffectiveEndDateInformation	
• effectiveEndDateTime	2007-01-10T12:00:01.000
• effectiveEndDateContextCode	LAST_DELIVERY_DATE
BracketQualifier	
• bracketRangeQualifierCode	MEASUREMENT_RANGE
• bracketTierMaximum	500,000 YD
• bracketTierMinimum	100,000 YD
ConditionValueInformation	
• conditionValue	2,000.00
• conditionValueType	RATE
• conditionValueCap	10,000
ConditionTargetEntity	
• CatalogueItemReference	
o gtin	06110123456784
o dataSource	0012345000010
o targetMarketCountryCode	US
ItemPriceType	
• alternateLocationGrouping	72436437
• distributionMethodCode	CD
• priceActionCode	ADD
• priceActionReason	NI
• priceTargetMarketSubdivision	US-CA
• priceTypeApplicationSequence	1
• priceTypeCode	INTRODUCTORY_PRICE
• shipFrom	0012345000011
• shipTo	0056345000025

Attribute	Value
• suggestedUnitRetailPrice	30.00 USD
priceTypeEffectiveStartDateInformation	
• 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
PriceValueInformation	
• priceBasisQuantity	100 YD
• priceValue	10.00
• priceValueQualifier	MONETARY_AMOUNT
• priceValueType	VALUE
targetPriceType	
o uniqueCreatorIdentification	WG-000005
o contentOwner	0012345000010
itemPriceTypeSegmentIndentification	
o uniqueCreatorIdentification	WG-000006
o contentOwner	0012345000010

8.2.2. Price Synchronisation Confirmation

Attribute	Value
PriceSynchronisationConfirmation	
• dataRecipient	0012345000010
• dataSource	0056345000022
• priceSynchronisationConfirmationIdentification	
o uniqueCreatorIdentification	WG-000013
o contentOwner	0056345000022
• priceSynchronisationRelationshipIdentification	
o uniqueCreatorIdentification	WG-000002
o contentOwner	0012345000010
• priceSynchronisationDocumentationIdentification	
o uniqueCreatorIdentification	WG-000001
o contentOwner	0012345000010
PriceSynchronisationSegmentConfirmation	
• PriceSynchronisationConditionIdentification	
o uniqueCreatorIdentification	WG-000007
o contentOwner	0012345000010
• priceSynchronisationConfirmationStatus	REVIEW
PriceSynchronisationConfirmationStatus	
• actionNeeded	Correct Value
• confirmationStatusReasonCode	Details not as agreed
• priceAttributeName	conditionValueBasisQuantity
• priceAttributeValueName	100,000 YD

9. Appendices

Not Applicable

10. Summary of Changes

Change	BSD Version	Associated CR Number
▪ Updated UC-9 Related Rule 8 and UC-10 Related Rule 10 to read "Bracket Qualifiers for a Price Type can be sent providing that the brackets have not been sent as standard brackets". ▪ Changed Business Rule 18 in UC-9 and UC-10 to clarify the application of Allowances/Charges. ▪ Updated rule 9 in UC-9 and Rule 10 in UC-10 to clarify application of bracket qualifiers.	0.0.3	07-000149
▪ Created specialScenarioCode in PriceSynchronisationRelationShip for Bulk Update Scenario. ▪ Added section 7.5.1 to provide explanation of Bulk Update Scenario. ▪ Revised rules in UC-2 in relation to revision of a start effective date. ▪ Added Transaction and Price Types into document and included new values TRANSACTION_PRICE_WITH_SPECIAL_TAXES and TRANSACTION_PRICE_WITH_VAT_AND_SPECIAL_TAXES ▪ Updated Use Case 11 to eliminate the requirement for an end date when withdrawing a price with a future start date (BRAD Requirement 3). ▪ Updated Use Case 10 to clarify the corrections of start effective dates (BRAD Requirement 4). ▪ Updated Use Cases to clarify use of reason codes in confirmation process (BRAD Requirement 5). ▪ Updated definition of "Reject" Confirmation Status for all Price Type Use Cases. ▪ Specified that Reject is not valid for Conditions in Condition Use Cases. ▪ Made priceAttributeName and priceAttributeValue optional in Price Synchronisation Confirmation Message. ▪ Updated association in Price Type Segment to allow for multiple reference documents. ▪ Included in document and updated Restart scenario (BRAD Requirement 9). ▪ Added invoiceIssuer and orderFrom GLNs to both Condition and Item Depiction Qualifier segments. ▪ Replaced MODIFY Action Code with CHANGE_BY_REFRESH. ▪ Added rule to all update use cases clarifying the role of CHANGE_BY_REFRESH in the Price Sync Message. ▪ Added lastChanged date and times to Price Synchronisation Relationship, Condition and Item Depiction Qualifier segments. Note names of attributes are specific to each section. ▪ Added isBulkUpdate to both PriceSynchonisationCondition and ItemPriceType	1.0.1	07-000375
▪ Corrected sample data for Price Synchronisation Document and the Price Synchronisation Confirmation to swap the values for uniqueCreatorIdentification and contentOwner.	1.0.2	08-000199

Change	BSD Version	Associated CR Number
▪ Updated Use Case 9 to change business rules 5 and 6 and add rule 25. ▪ Updated Use Case 10 to change business rules 7 and 8 and to add rule 17. ▪ Added extension point to Price Synchronisation Relationship Class. ▪ Added extension point to Item Price Type Class. ▪ Added extension point to Price Condition Class. ▪ Added tradeItemGroupIdentificationCode to Price Condition Class. ▪ Added distributionMethodCode to Price Condition Class. ▪ Update Section 7.2.5 to read “RESTART Document Type is used to ‘restart’ pricing for an item the retailer has previously rejected pricing for."	1.1.0	09-000049, 08-000034, 08-000221, 08-000222, 07-000273