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For Global Commerce

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1. Preamble

The current practice of exchanging business documents by means of telecommunications – usually defined as e-Business – presents a major opportunity to improve the competitiveness of companies, especially for Small and Medium Enterprises (SME).

The catalogue is an important document exchanged between trading partners, it marks the start of the trading cycle.

The developing of the Cross Industry Catalogue started as an initiative by CEN/ISSS Workshop eBES, the European Expert Group 1 (EEG1) – Supply Chain & e-Procurement.

The document describe globally consistent catalogue information exchange processes for worldwide supply chains and e-Procurement of commodities, using the UN/CEFACT Modelling Methodology (UMM) approach and Unified Modelling Language to describe the business processes and business documents involved.

The structure of this document is based on the structure of the UN/CEFACT Business Requirements Specification (BRS) document reference CEFACT/ICG/005.

2. References

- UN/CEFACT Modelling Methodology
- UN/CEFACT Business Requirements Specification version 1.5 (CEFACT/ICG/005)
- Unified Modelling Language (UML version 1.4)
- Actors, Roles, Partners & Parties UN/CEFACT TBG14 BPA/N061 - 10th Aug 2006
- OASIS/UBL ver 2
- GS1 XML

3. Objective

The objective of this specification is to describe the business processes, the business documents and the information entities for the exchange of catalogue information, including price information, used by different industries in supporting the supply chain.

The business process is the detailed description of the way trading partners intend to play their respective roles, establish business relations and share responsibilities to interact efficiently with the support of their respective information systems.

The collaborative business processes involved in the catalogue process are made up by five business transactions.

Each business **transaction** is realised by an exchange of business information (documents and messages). The sequence in which these transactions are used, represent particular scenarios and are presented as activity diagrams in this document.

The information exchanged in the business documents/messages are presented in lists of business entities and their attributes.

3.1. Scope

This section describes the extent and limits of the business processes within the supply chain being described in this document. Each industry may specify, based on the BRS of the cross industry catalogue processes, its industry specific use of the catalogue message and the business processes. It also allows for industry specific functionality on details to describe a specific product.

Name/Value pairs in the catalogue documents allows the Catalogue Provider to add attributes to further specify their products in the existing structure. If further elaboration is needed an industry specific ontology can be made. Industry specific ontology is outside the scope of this BRS.

The catalogue processes are used to offer goods or services by the Supplier to potential Customers and give basic information needed for ordering those goods or services. A catalogue will contain information on the products being offered and may contain price information, terms of trade and other commercial information.

The processes cover:

- Exchange of multi language catalogues
- Exchange of catalogue being a full catalogue or part of a catalogue in relation to updates
- Exchange of multi Supplier catalogues or parts of multi Suppliers catalogues in relation to updates
- Customer specific catalogue items and prices, including contract prices

This document describes the processes involved in the exchange of catalogue data and how to structure the information in electronic catalogues, so they can be sent to customers and potential customers, in whole or part, and be the basis for the ordering of the goods or services defined in those catalogues. Customers may ask for catalogue data ad hoc, or they may subscribe to the catalogue process and receive all or parts of the catalogue data.

3.2. Context Categories

The following table lists the context categories according to the Core Components Technical Specification and their values for the catalogue processes.

The Business Process Roles in the table represent the Business Partner Types (Party Types) of the senders and receivers of the information flows that make up the Provide Catalogue process. The Supporting Roles represent those Business Partner Types involved in related business processes that are referred to in the information exchanged within the Provide Catalogue process (see ref. 5).

Table 3-1 Context categories

Categories	Description and Values
Business Process	Catalogue Process
Product Classification	All
Industry Classification	All
Geopolitical	Global
Official Constraint	None
Business Process Role	Catalogue Provider, Catalogue Receiver
Supporting Role	Buyer, Seller, Manufacturer, BrandOwner, Carrier, Warranty Provider etc ¹
System Capabilities	No limitations

¹ See Actors, Roles, Partners & Parties UN/CEFACT TBG14 BPA/N061 - 10th Aug 2006

3.3. Business Domain View

3.3.1. Catalogue Process within the BUY-SHIP-PAY Model

The Catalogue Business Process is part of the supply chain process. A catalogue may be thought of as equivalent to a quotation or as part of a contract reflecting product information and agreed terms of business. It is positioned within the BUY-SHIP-PAY model as part of the Establish Business Agreement use case.

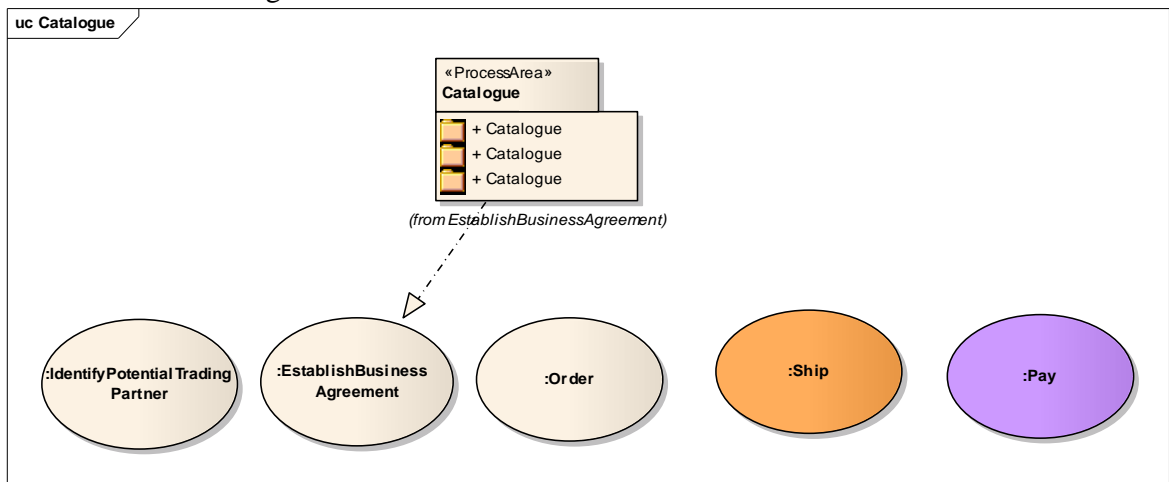


Figure 3-1. Positioning of the Catalogue process within the BUY-SHIP-PAY model.

3.3.2. Catalogue Domain Use Case diagram

The Business partner types involved in the catalogue process includes the Customer, Supplier or Intermediary. They play the roles of Catalogue Provider and Catalogue Receiver.

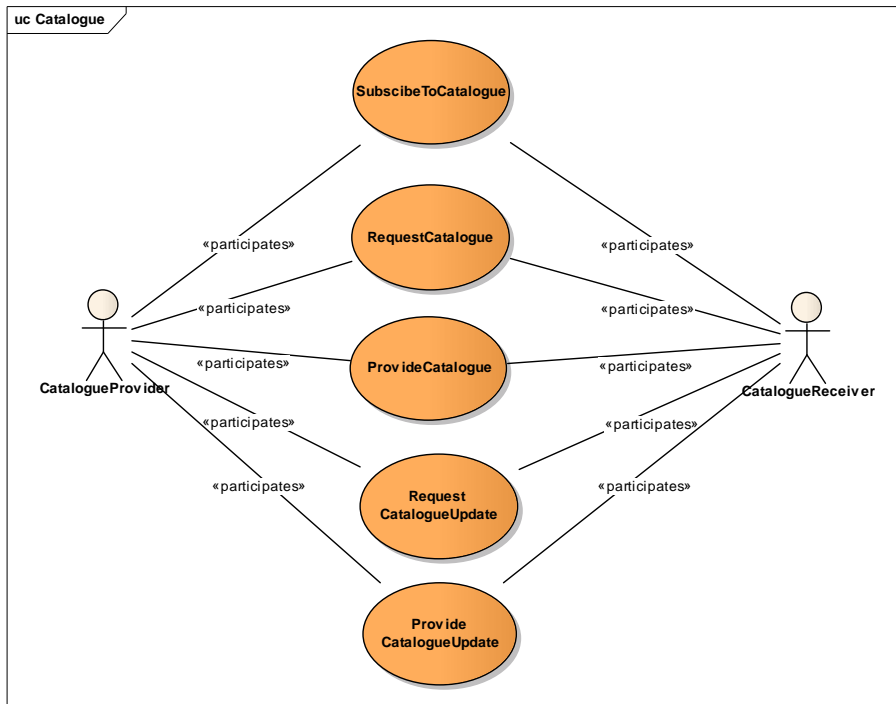


Figure 3-2. Catalogue-Business Domain Use Case Diagram

The use cases shown in figure 3.2 are elaborated in section 5, below.

4. Business Requirements View

4.1. Business Process Elaboration

This section elaborates the business use cases that make up the catalogue process.

4.1.1. Provide Article/Product/Item/Partner Information via a Catalogue

4.1.1.1. Business Process Use Case Description

Table 4-1 Business Process Use Case Description

Business process name	Provide Article/Product/Item/Partner Information via a Catalogue
Identifier	BUY-SHIP-PAY/ Procurement&Sales/ EstablishBusinessAgreement/ Catalogue/ Catalogue Subscription
Business Partner Types	Catalogue Provider, Catalogue Receiver

<p>Pre-conditions (PrC)</p>	<p>PrC1 - Catalogue Receiver has a need for a catalogue. PrC2 - Parties may have an established business agreement. PrC3 - The Catalogue Receiver and Catalogue Provider may have established a Catalogue Subscription including agreement concerning the updating of the catalogue Or PrC4 - the Catalogue Provider provides the catalogue to the Catalogue Receiver according to the Request for Catalogue provided by the Catalogue Receiver. Or PrC5 - the Catalogue Provider provides the catalogue to the Catalogue Receiver by using both Catalogue Subscription and Request for Catalogue.</p>
<p>Description</p>	<p>The Catalogue Receiver sends a request for a catalogue subscription to the Catalogue Provider. The process results in an accepted catalogue subscription request or in the rejection of the catalogue subscription request. The Catalogue Receiver requests a catalogue from a Catalogue Provider using Catalogue Request or the Catalogue Provider issues a Catalogue to the Catalogue Receiver according to the agreed terms in the Catalogue Subscription. The Catalogue Provider may reject the request for a catalogue or provide a catalogue according to the request. If the Catalogue Request is rejected by the Catalogue Provider the Catalogue Receiver may request a Catalogue again by using Catalogue Request. The Catalogue Provider may provide a catalogue according to agreed terms in the Catalogue Subscription. On receipt of the catalogue the Catalogue Receiver notifies the Catalogue Provider of the acceptance or rejection of the catalogue. If a Catalogue provided according to a catalogue subscription is rejected by the Catalogue Receiver the Catalogue Provider can provide an altered catalogue after considering the cause for rejection and according to the agreed terms in the Catalogue Subscription. The Catalogue Provider provides the Catalogue update according to the agreed terms in the Catalogue Subscription or the Catalogue Provider provides the Catalogue update according to the requirements in the Catalogue Request. The Catalogue Update may be a full catalogue containing all items including changed and unchanged item information. This replacement catalogue replaces all the prior catalogue information. The catalogue update may contain only information about changed item information. This changed information replaces only the catalogue information for the identified catalogue item in previous accepted catalogue. The Catalogue Receiver notifies the Catalogue Provider of the acceptance or the rejection of the catalogue update received. The Catalogue Receiver may request a Catalogue update again by using Catalogue Request. If a Catalogue Update provided according to a catalogue subscription is rejected by the Catalogue Receiver the Catalogue Provider can provide an altered catalogue update after considering the cause for rejection and according to the agreed terms in the Catalogue Subscription. After acceptance of the catalogue, the Catalogue Receiver can use the data provided for further business processes. When a Catalogue Update is rejected the Catalogue Receiver must consider items may have been expired, replaced or price changed even though the Catalogue Update has been rejected by the Catalogue Receiver.</p>

<p>Post-conditions (PoC)</p>	<p>PoC1 - Catalogue Subscription Request is rejected: After the rejection of the catalogue subscription request the same situation exists as defined under the pre-condition PrC1.</p> <p>PoC2 - Catalogue request is rejected: After the rejection of the request for catalogue the same situation exists as defined under the pre-condition PrC1.</p> <p>PoC3 –Provided Catalogue is rejected and the Catalogue Provider is notified regarding the reason After the rejection of the catalogue the same situation exists as defined under the pre-condition PrC1.</p> <p>PoC4 – Provided Catalogue Update is accepted. Provided Catalogue Update is accepted by the Catalogue Receiver</p> <p>PoC5 – Provided Catalogue Update is rejected. Catalogue Update is Rejected by the Catalogue Receiver</p> <p>After the rejection of the Catalogue Update the same situation exists as defined under the pre-condition PrC3, or PrC4 or PrC5.</p> <p>After rejection of a received catalogue update, the Catalogue Receiver may request a Catalogue again by using Catalogue Request or after considering the cause for rejection and according to the agreed terms in the Catalogue Subscription the Catalogue Provider provide an altered catalogue update.</p>
<p>Scenario</p>	<p>The catalogue processes are used to offer goods or services by the Supplier to potential Customers and give basic information needed for ordering those goods or services. A catalogue will contain information on the products being offered and may contain price information, terms of trade and other commercial information.</p> <p>The processes cover:</p> <ul style="list-style-type: none"> ▪ Exchange of multi language catalogues ▪ Exchange of catalogue being a full catalogue or part of a catalogue in relation to updates ▪ Exchange of multi Supplier catalogues or parts of multi Suppliers catalogues in relation to updates ▪ Customer specific items and prices, including contract prices

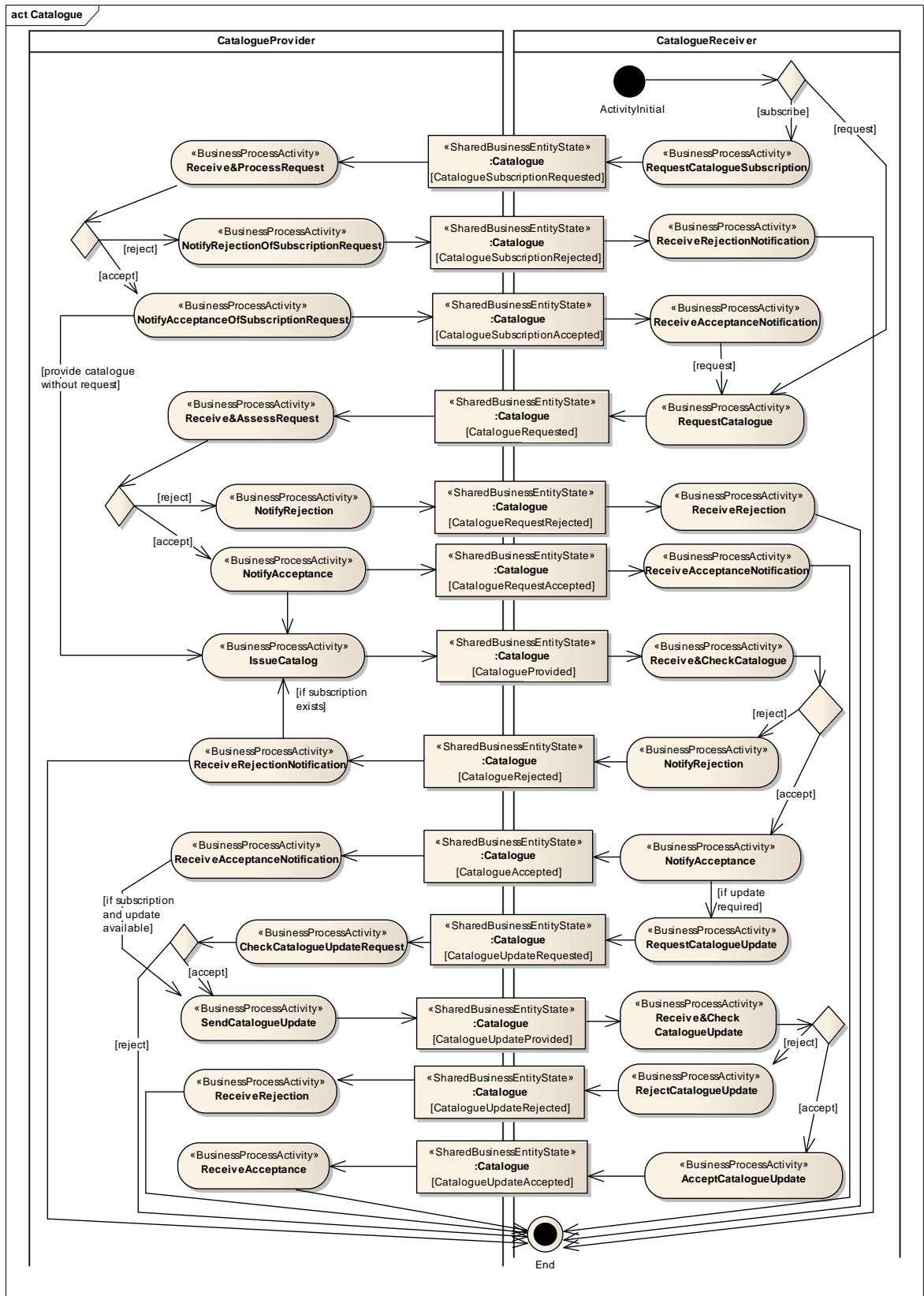


Figure 4-1 Business Process Activity Diagram of Provide Article/Product/Item/Partner Information via a Catalogue

4.2. Business Entity Life Cycle

The Business Entity Life Cycle shows the states that the Catalogue Entity may reach as the Catalogue business process is executed. Each change of state results from the exchange of information between the business partners using the appropriate business transactions. The Catalogue Process requires four re-useable business transactions to achieve this. See section 5 and 7 for the transaction details.

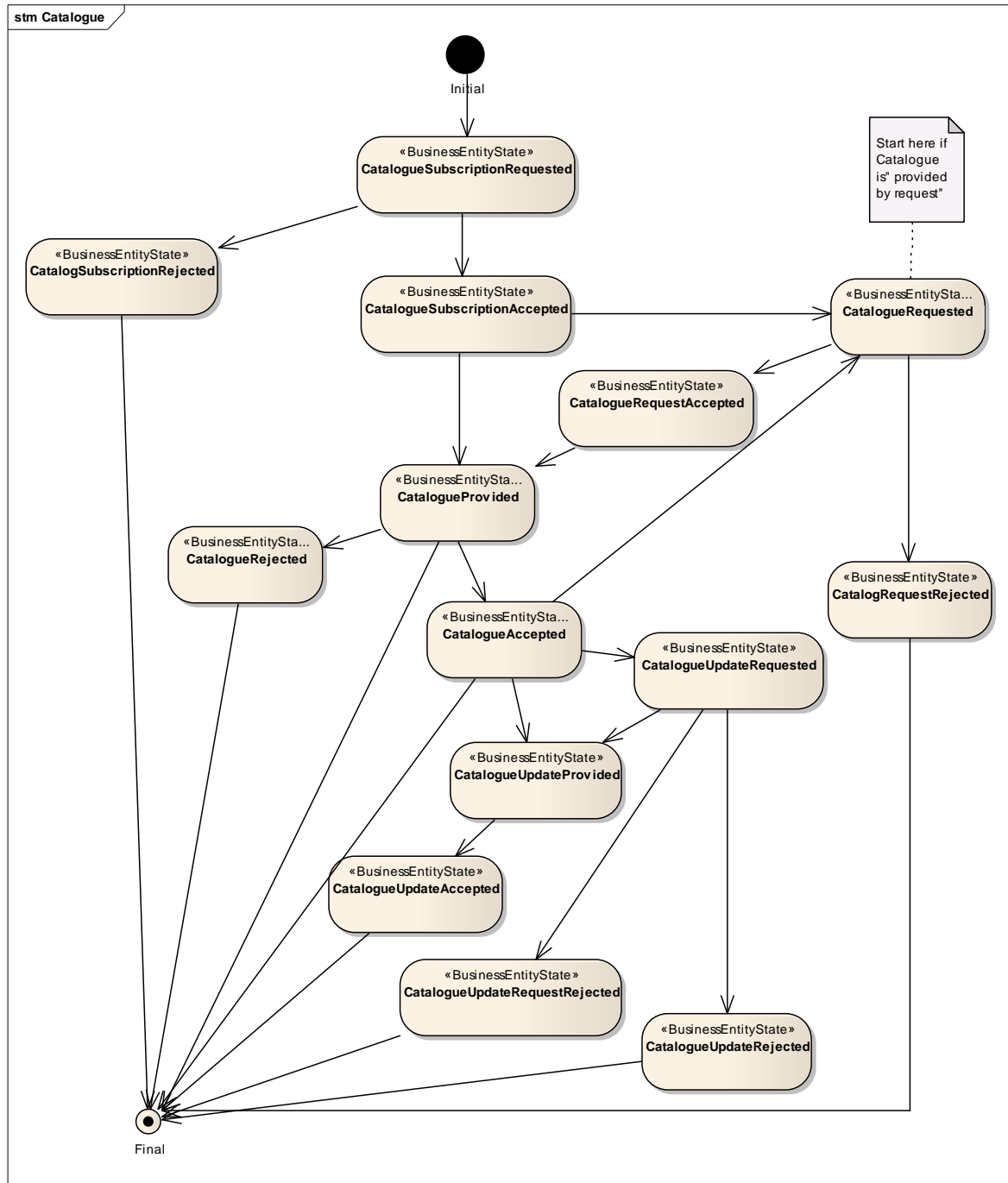


Figure 4-2 Business Entity States for Catalogue Process

5. Business Transactions-Use Case Diagrams

The five business transactions that realize the catalogue process are RequestSubscription, RequestCatalogue, ProvideCatalogue, RequestCatalogueUpdate and ProvideCatalogueUpdate. These transactions are detailed in the sections below.

5.1. Request Subscription

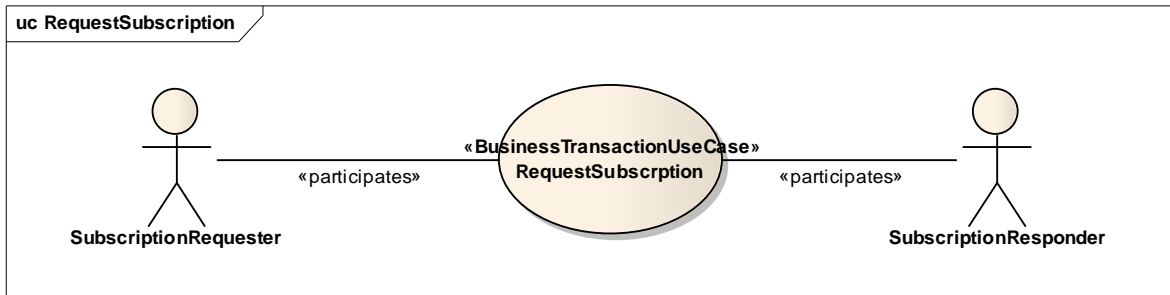


Figure 5-1 RequestSubscription Use Case

5.2. Request Catalogue

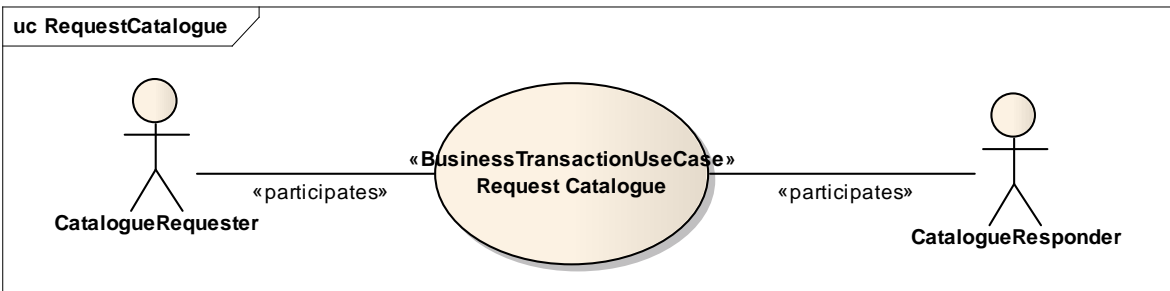


Figure 5-2 RequestCatalogue Use Case diagram

5.3. Provide Catalogue

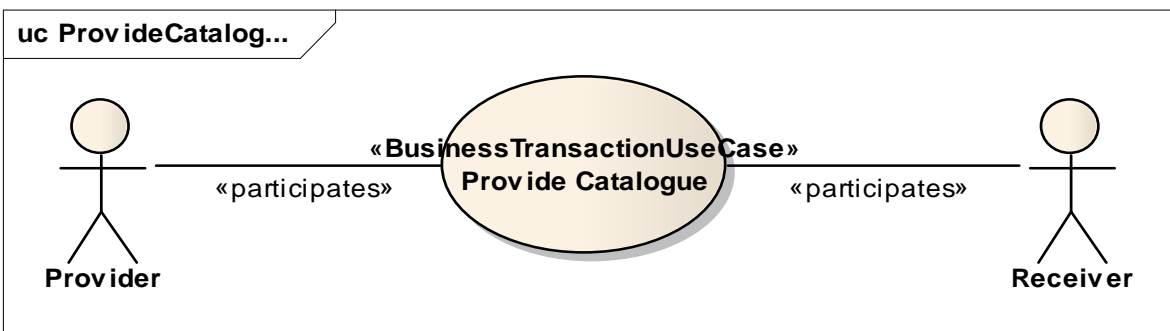


Figure 5-3 ProvideCatalogue Use Case diagram

5.4. Request Catalogue Update

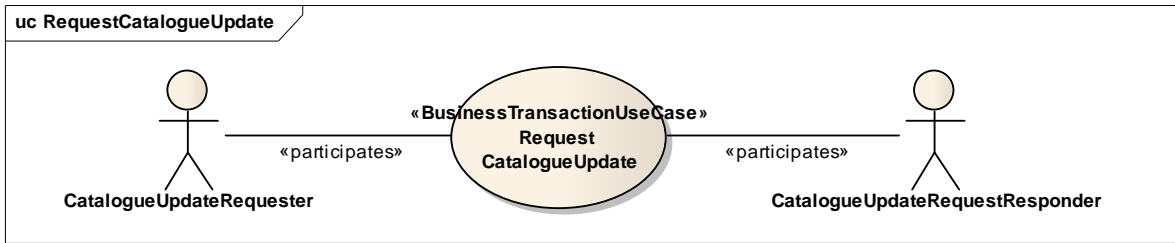


Figure 5-4 RequestCatalogueUpdate Use Case

5.5. Provide Catalogue Update

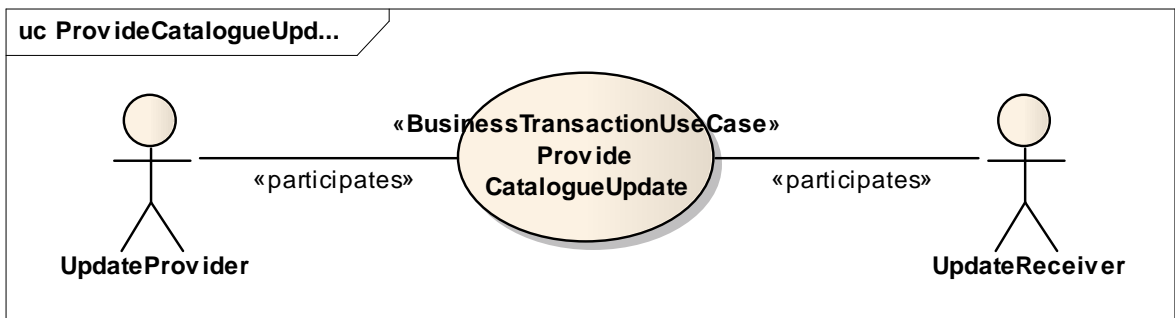


Figure 5-5 ProvideCatalogueUpdate Use Case

6. Business Collaborations processes

The two business collaborations in the Catalogue process are implemented using five business transactions illustrated above. The authorized roles of the sender and receiver of the business transactions in the collaborations are related to the Catalogue Provider and Catalogue Receiver. The order in which the transactions occur is shown in the corresponding Activity diagram.

6.1. Provide Catalogue By Subscription Business Collaboration

This collaboration uses two of the transactions-RequestSubscription and NotifyResponse.

The Subscription Requester and the ResponseReceiver roles in the transactions are taken by the Catalogue Receiver. The SubscriptionResponder and ResponseProvider roles are taken by the Catalogue Provider..

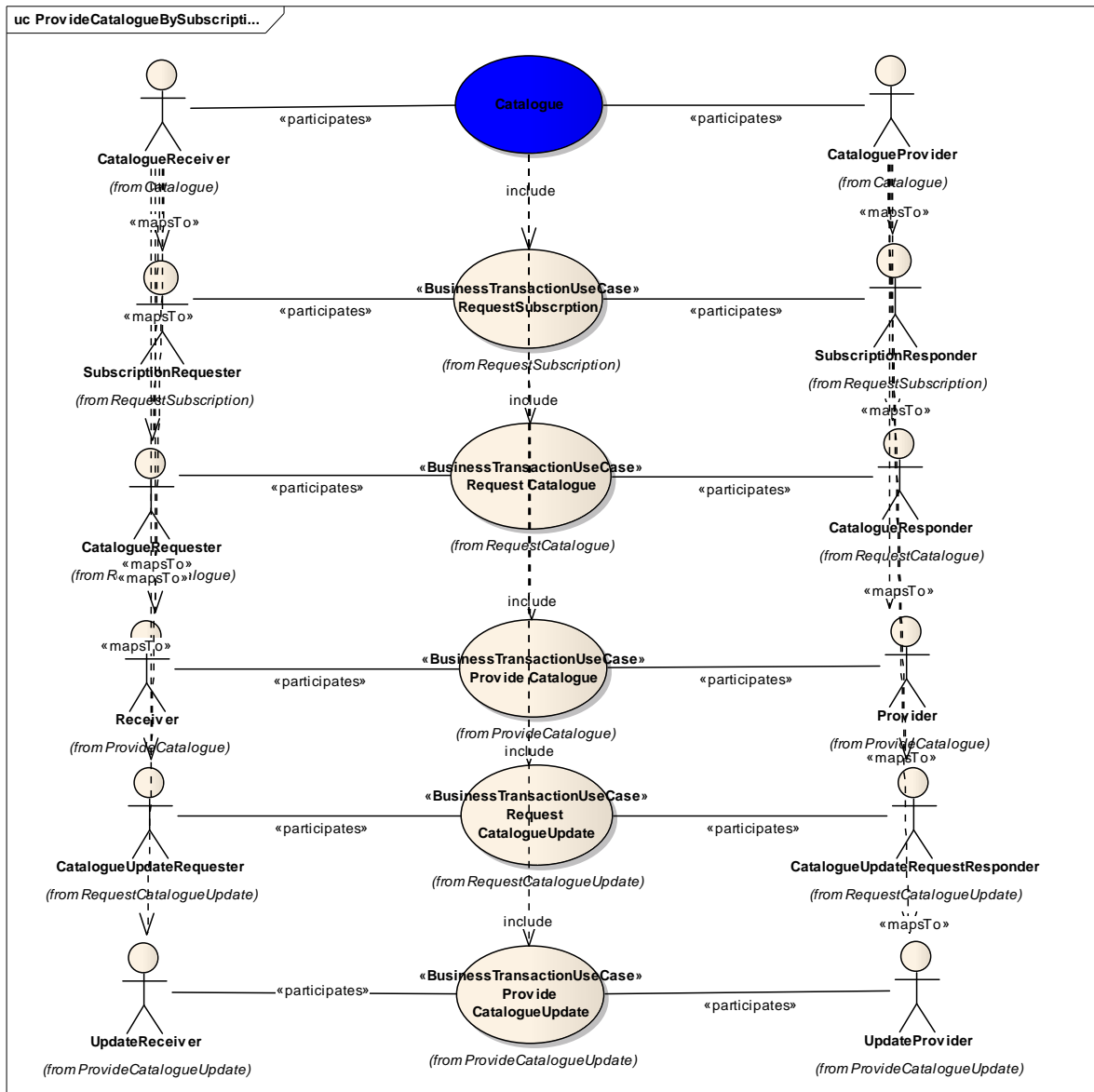


Figure 6-1 SubscribeToCatalogue BusinessCollaboration

The order in which the different transactions take place is shown in figure 6.2 below, the activity diagram of SubscribeToCatalogue business collaboration

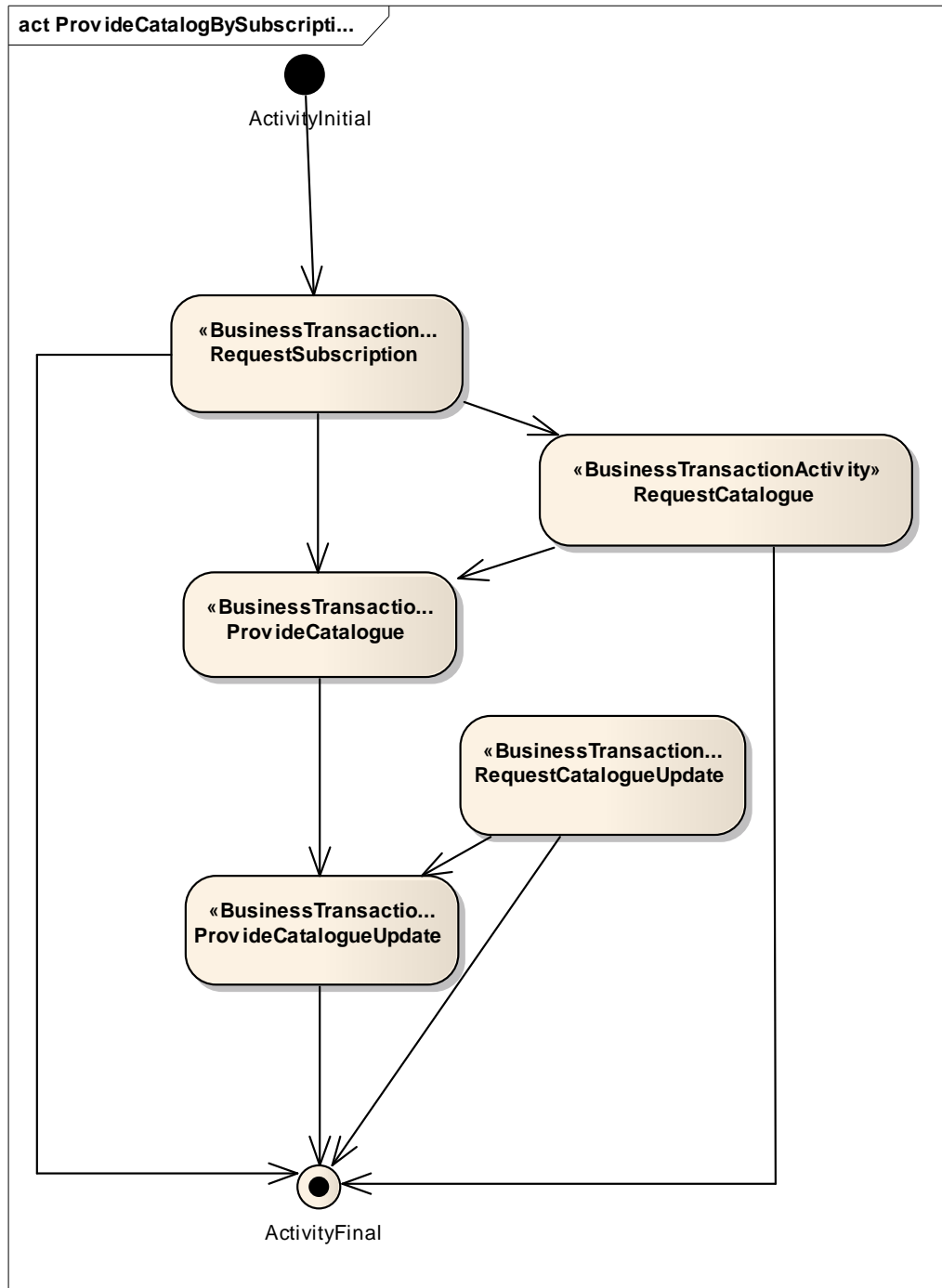


Figure 6-2 ProvideCatalogueBySubscription Business Collaboration activity diagram

Thus the ProvideCatalogueBySubscription BusinessCollaboration uses five transactions.

The RequestSubscription transaction may be followed by the RequestCatalogue transaction before the ProvideCatalogue transaction.

The ProvideCatalogue transaction may or may not be followed by a RequestCatalogueUpdate before a ProvideCatalogueUpdate transaction follows.

6.2. Provide Catalogue By Request Business Collaboration

This collaboration uses two of the transactions-RequestCatalogue, ProvideCatalogue.

The Catalogue Requester and the Catalogue Receiver roles in the transactions are taken by the Catalog Receiver. The Catalogue Responder and Catalogue Provider roles are taken by the Catalogue Provider. Application Response message must be used in both the CatalogueRequest and the ProvideCatalogue.

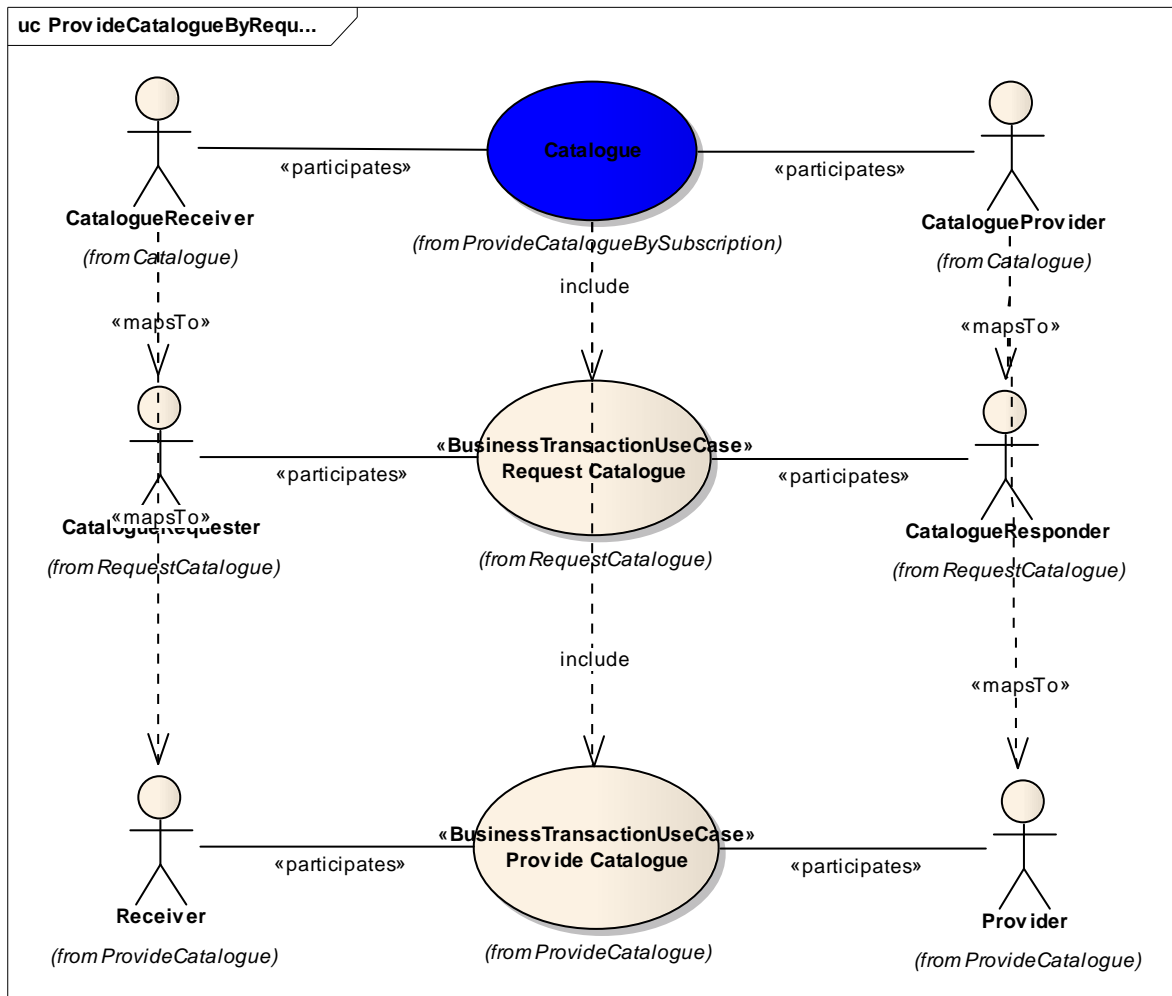


Figure 6-3 ProvideCatalogueByRequest BusinessCollaboration

The order in which the transactions take place is shown in figure 6.4 below, the activity diagram of ProvideCatalogueByRequest business collaboration.

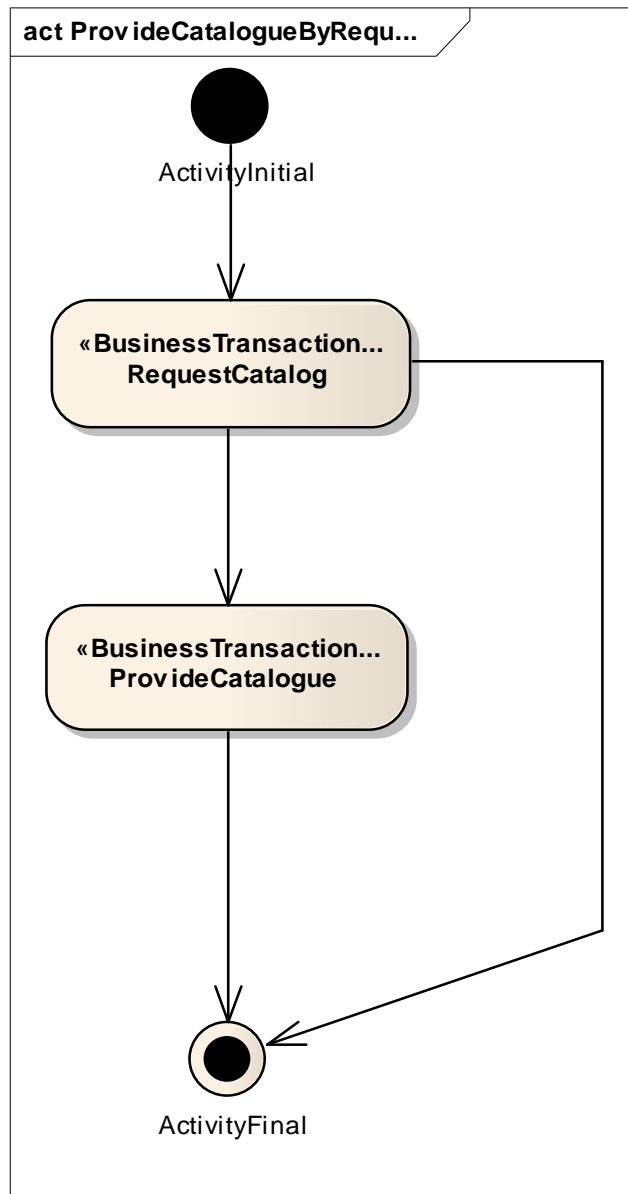


Figure 6-4 Activity diagram of ProvideCatalogueByRequest Business Collaboration

7. Business Transactions

The transactions used in the Catalogue Process are described in the worksheets below and the transaction pattern illustrated in the activity diagrams. These show the authorized roles of the sender and responder together with the activities that take place and the name of the information envelope that carries the information (message) exchanged.

7.1. Request Catalogue Subscription business transaction

Table 7-1 Business Transaction Worksheet for RequestSubscription

Business Transaction name	RequestSubscription
Description	The Catalogue Receiver sends a request for a catalogue subscription to the Catalogue Provider. The Catalogue Provider receives the request and must respond using an application response.
Transaction Pattern	SubscriptionResponse
Requester's side	
Requesting Role	SubscriptionRequester
Requesting Business Activity Name	RequestSubscription
Business Information Envelope	SubscriptionRequest
Responder's Side	
Responding Role	SubscriptionResponder
Responding Business Activity Name	ReceiveSubscriptionRequest
Business Information Envelope	ApplicationResponse

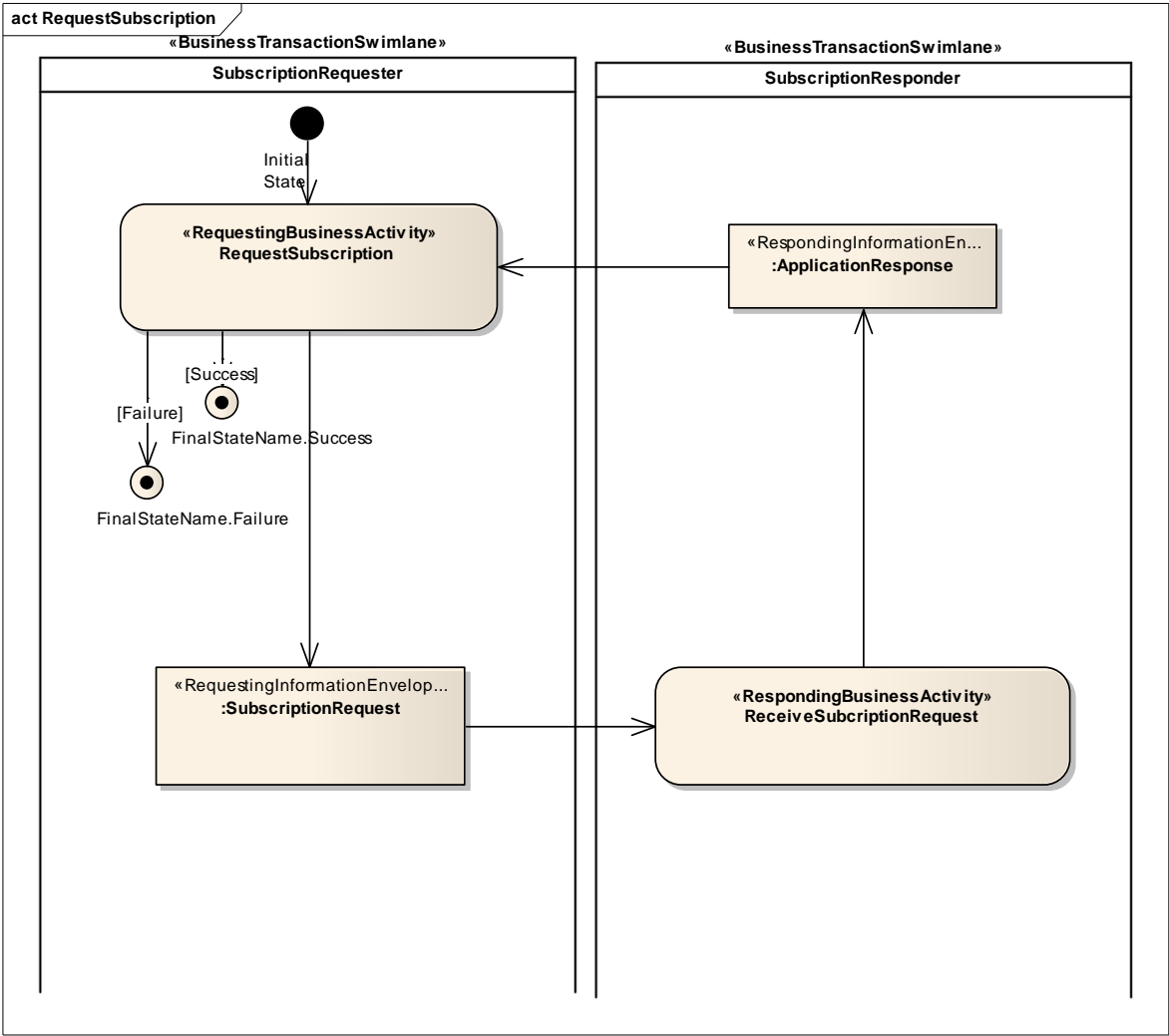


Figure 7-1 Activity diagram for RequestSubscription Transaction

7.2. Request Catalogue business transaction

Table 7-2 Business Transaction worksheet-RequestCatalogue

Request Catalogue Business Transaction	
Business Transaction name	RequestCatalogue
Description	The Catalogue Receiver requests a catalogue from a Catalogue Responder. The Catalogue Provider receives the request and must respond using an application response.
Transaction Pattern	Request Response
Requester's Side	
Requesting Role	CatalogueRequester
Requesting Business Activity Name	RequestCatalogue
Business Information Envelope	CatalogueRequest
Responder's Side	
Responding Role	CatalogueResponder
Responding Business Activity Name	ReceiveCatalogueRequest
Business Information Envelope	ApplicationResponse

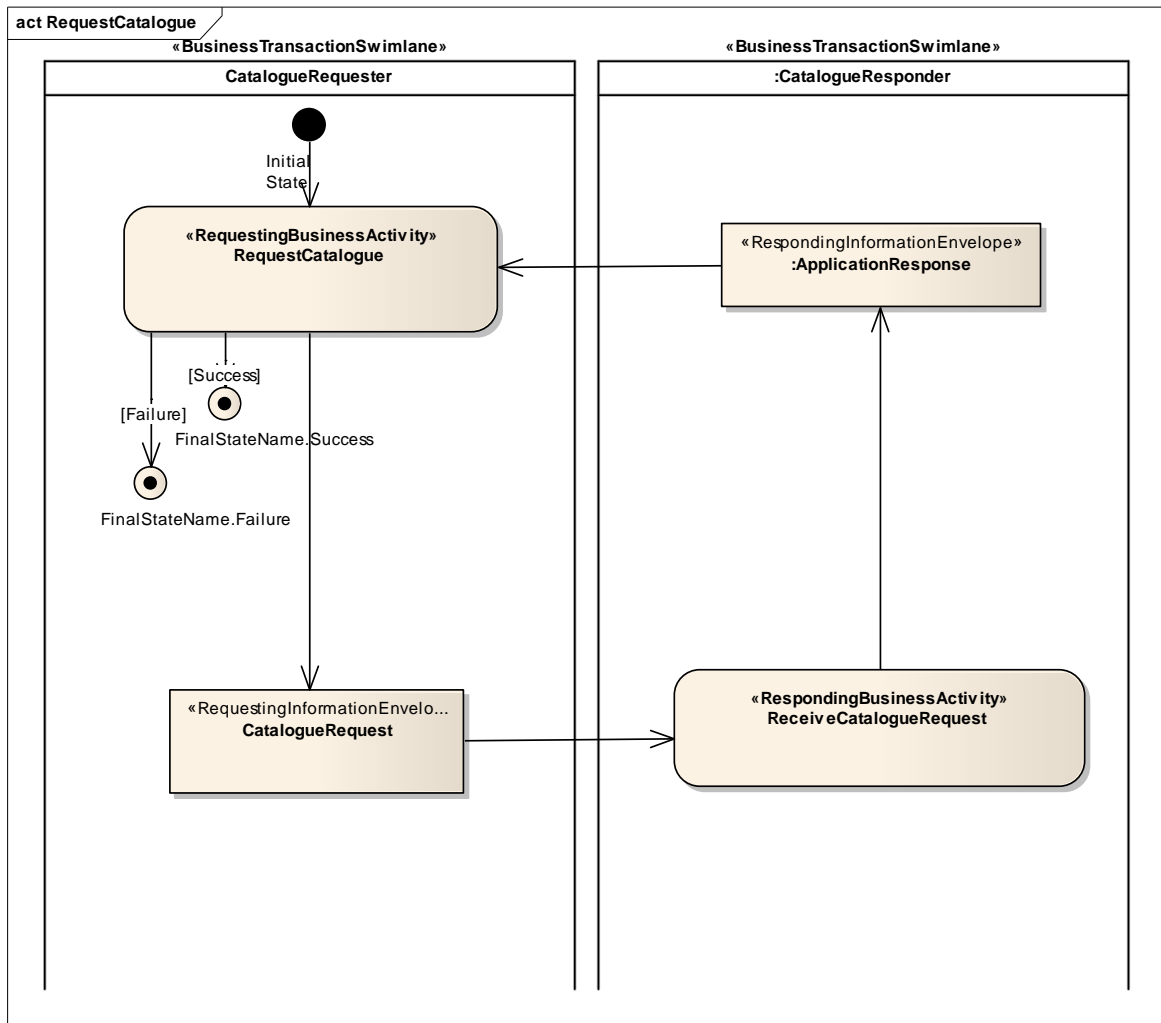


Figure 7-2 Activity diagram for RequestCatalogue transaction

7.3. Provide Catalogue business transaction

Table 7-3 Business Transaction worksheet-ProvideCatalogue

Business Transaction name	Provide Catalogue
Description	The Provider provides Catalogue to a Receiver. The Receiver receives the Catalogue.
Transaction Pattern	CatalogueReceiptResponse
Requester's side	
Requesting Role	Provider
Requesting Business Activity Name	IssueCatalogue
Business Information Envelope	Catalogue
Responder's Side	
Responding Role	Receiver
Responding Business Activity Name	ReceiveCatalogue
Business Information Envelope	ApplicationResponse

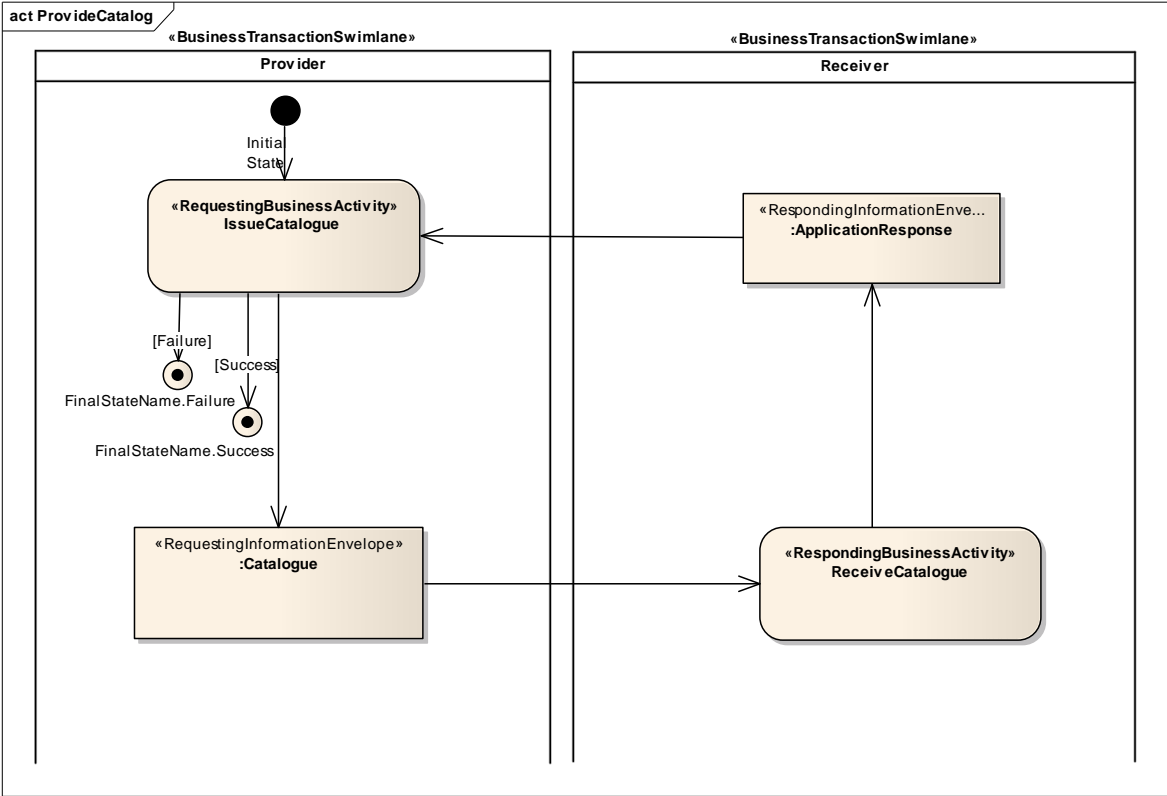


Figure 7-3 ProvideCatalogue BusinessTransaction

7.4. Request Catalogue Update business transaction

Table 7-4 Business Transaction worksheet-RequestCatalogueUpdate

Business Transaction name	RequestCatalogueUpdate
Description	The Catalogue Requester requests catalogue from a Catalogue Responder. The data may be an original catalogue or an update of a whole catalogue or updates for a part of a catalogue.
Transaction Pattern	CatalogueUpdateRequestResponse
Requester's Side	
Requesting Role	CatalogueUpdateRequester
Requesting Business Activity Name	RequestCatalogueUpdate
Business Information Envelope	CatalogueUpdateRequest
Responder's Side	
Responding Role	CatalogueUpdateRequestResponder
Responding Business Activity Name	ReceiveCatalogueUpdateRequest
Business Information Envelope	ApplicationResponse

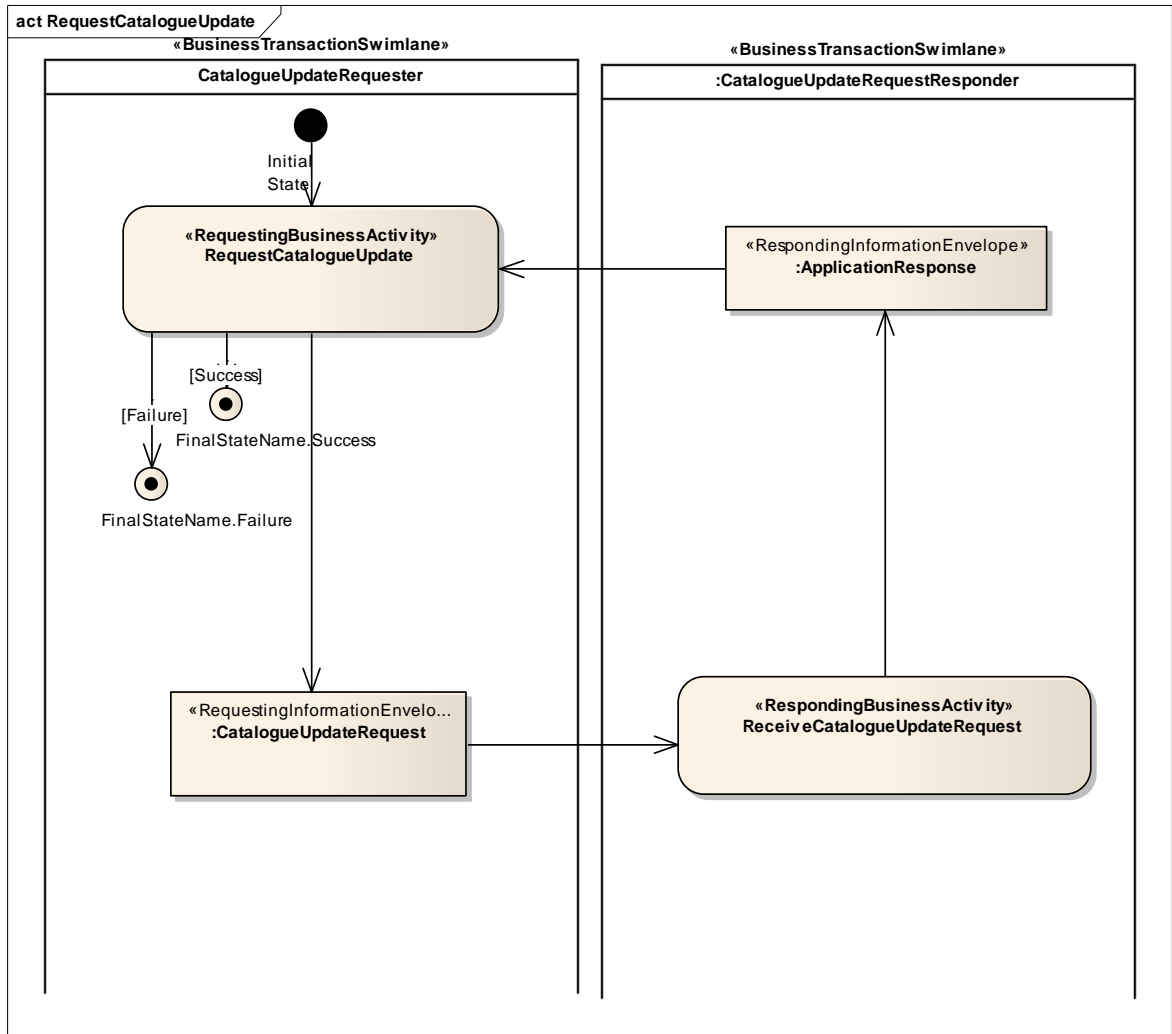


Figure 7-4 Activity diagram for RequestCatalogueUpdate transaction

7.5. Provide Catalogue Update business transaction

Table 7-5 Business Transaction worksheet-ProvideCatalogueUpdate

Business Transaction	
Business Transaction name	Provide Catalogue Update
Description	The Provider provides Catalogue Update to a Receiver. The Receiver receives the Catalogue Update.
Transaction Pattern	CatalogueReceiptResponse
Requester's side	
Requesting Role	Update Provider
Requesting Business Activity Name	IssueCatalogueUpdate
Business Information Envelope	Catalogue
Responder's Side	
Responding Role	Update Receiver
Responding Business Activity Name	ReceiveCatalogueUpdate
Business Information Envelope	ApplicationResponse

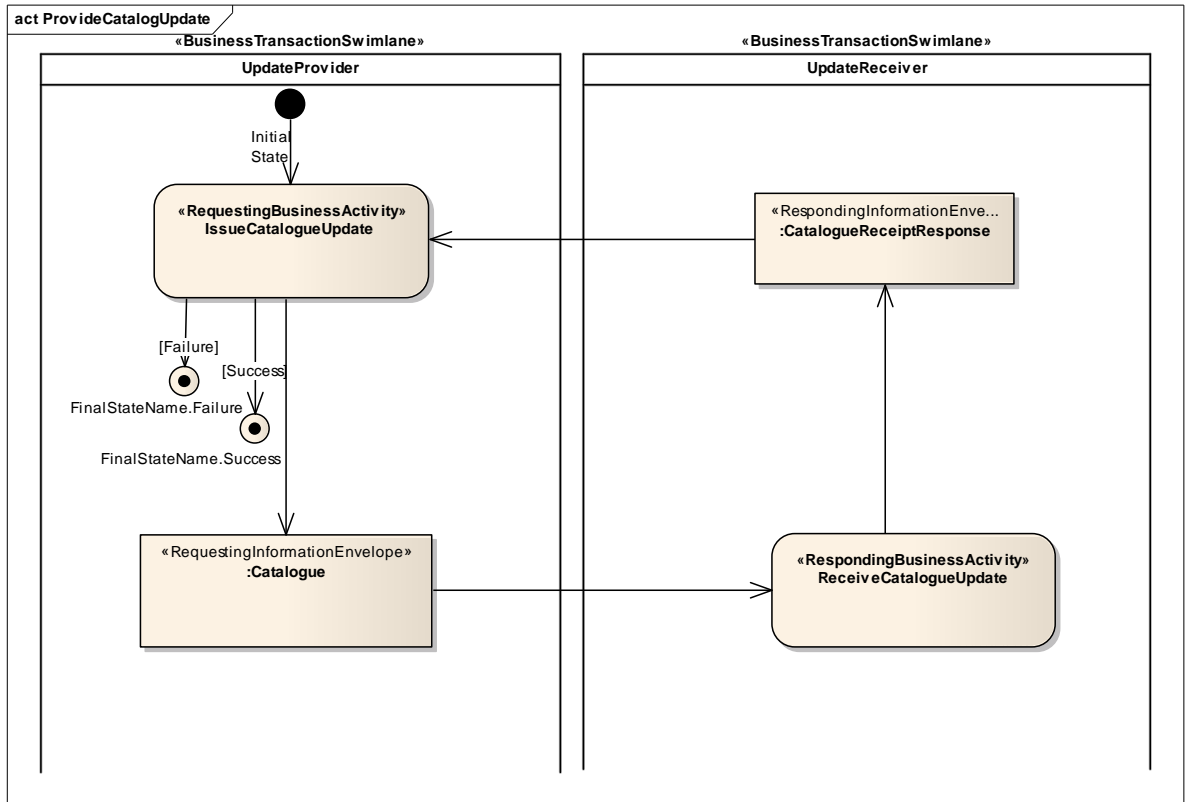


Figure 7-5 ProvideCatalogUpdate BusinessTransaction

8. Business Documents

The information exchanged in the information envelopes described in the four business transactions represent the Subscription Request, Catalogue Request, Application Response and Catalogue. The detailed content for these are described below.

General remark:

Business requirements composed by a text format are always supporting multiple languages. This is shown by using a star (..*) in the cardinality.

8.1. Subscription Request (Business Document)

UID	Crđ	Short Name ²	Business Requirement	Rationale / Example / Mapping Notes
SRQ				
SRQ 0001	1..1	Document Information	Generic document.	
SRQ 0002	1..1	Subscription Request Identifier	The identifier of the subscription request message	
SRQ 0003	1	Subscription Request Issue date time	The date/time when the Catalogue subscription request message is issued.	
SRQ 0004	0..*	Subscription Request Description text	To provide an general overall description for the Subscription Request for catalogue	Use case: Can be used for the subscription requester of a catalogue to describe content of subscribed catalogue. This description is not an alternative of using Product groups or Product classification. UBL e.g. "Computer accessories for laptops."
SRQ 0005	1..1	Catalogue Subscription Requester	The requester of the catalogue subscription	The requester of a catalogue subscription and the receiver of catalogue
SRQ 0006	1..1	Catalogue Subscription Receiver	The receiver of the catalogue subscription request	The receiver of a catalogue subscription request and the provider of a catalogue
SRQ 0007	0..1	Procurement Party	The party at the customer side responsible for negotiating the contract and the contents of the catalogue.	UBL
SRQ 0008	0..n	Supplier party	Supplier (s) whose catalogue (s) is requested to be subscribed to	
SRQ 0009	0..n	Contract Reference	Reference to the Contract(s) the catalogue subscription request is subject of.	
SRQ 0010	0..n	Document Reference	Reference to other document (s) applicable for the catalogue subscription	UBL
SRQ 0011	0..n	Signature	To facilitate digital signing of the subscription request	UBL

² The short name of the business entity may be changed in the process of developing the Requirement Specification Mapping (RSM),

UID	Crđ	Short Name ²	Business Requirement	Rationale / Example / Mapping Notes
SRQ 0012	0..1	Subscription Catalogue Update Frequency	Subscription request on frequency of Catalogue updates.	UN/CEFACT Code list to be referenced
SRQ 0013	0..1	Requested Subscription period	The requested period for the catalogue subscription.	
SRQ 0014	0..n	Subscription Request Catalogue Update Code	The code specifying the subscription request on content for update catalogues	<p>Gives the Catalogue Provider information on how the Catalogue Receiver (subscription requester) wants update catalogue (s) to be arranged.</p> <p>Code list:</p> <p>Full – request a subscription of full catalogue including all updates</p> <p>Partial – request a subscription of catalogue update including only all updated/changed catalogue items</p> <p>Partial Price - subscription requested of catalogue update including only price changed catalogue items</p> <p>Partial Item – subscription requested of catalogue update including only catalogue items with changed item specification</p> <p>If more than one code is used in a subscription the Catalogue Receiver must use Catalogue Request to request a specific update catalogue according to any of the specified update codes.</p>
SRQ 0015	0..n	Subscription Requested Catalogue Language Code	Subscription Request of language(s) of Catalogue information	Code list: ISO 639
SRQ 0016	0..n	Subscription Requested Catalogue Currency Code	Subscription Request of Currency or currencies of the prices, allowances and charges in Catalogue	Code list: ISO 4217
SRQ 0017	0..1	Subscription Requested Catalogue Validity Period	Subscription request on validity period for Catalogue for which the catalogue must be valid and ready for use.	Result in only one issue of a catalogue if used.
SRQ 0018	0..n	Subscription Requested Product Classification Scheme Code	Subscription request on product classification scheme(s) (including version etc)required for classifying the products in the subscribed Catalogue	<p>Code list (examples):</p> <ul style="list-style-type: none"> - UNSPSC - GPC - CPV
SRQ 0019	0..n	Subscription Requested Product Classification Code	Requested Product group(s) to be included in the Catalogue by using Product Classification Scheme(s)	Includes a code list of available Product Classification schemes

UID	Crd	Short Name ²	Business Requirement	Rationale / Example / Mapping Notes
SRQ 0020	0..n	Subscription Requested Price Type Code	Price type(s) to include in the Catalogue	<p>A code list containing different price types (examples)</p> <ul style="list-style-type: none"> - Contract price (net price) Price according to contract, including allowances and charges, excluding taxes - Contract price (gross price) Price according to contract, excluding allowances and charges and taxes - Current (today's) price, contractual (net price) Price according to contract, including allowances and charges, excluding taxes. This price can vary from day to day during the contract period. Price at time of transaction according to agreement: E.g fresh food, flowers, spot price - Discounted current (today's) price (net price), Price according to the supplier's price list or catalogue including allowances and charges, excluding taxes. This price can vary from day to day during the period of time. Price at time of transaction according to agreement: E.g fresh food, flowers, spot price - Catalogue price, discounted (net price) Price according to the supplier's price list or catalogue, including allowances and charges, excluding taxes. - Catalogue price, discounted (gross price) Price according to the supplier's price list or catalogue, excluding allowances, charges and taxes.

UID	Crđ	Short Name ²	Business Requirement	Rationale / Example / Mapping Notes
SRQ 0021	0..n	Requested Trading Terms	It must be possible to state requested trading terms and conditions that apply to all trade items. Trading terms must be possible to be given in text and/or as a reference to where the trading terms can be found (URL to national or industry specific terms). Also the trading terms can apply to specific applicable regions/country.	UBL
SRQ 0022	0..n	Subscription Requested Target Market(s)	A geographical area, based upon geographical boundaries sanctioned by the United Nations, for items which should be included in the subscribed catalogue.	Code list: ISO 3166
SRQ 0023	0..n	Subscription Requested Delivery Region(s), text	A medium-scale area of land for deliveries of items which should be included in the subscribed catalogue.	Only items which are delivered to the requested region are to be included in the subscribed catalogue
SRQ 0024	0..n	Subscription Requested Delivery Location(s)	A geographical location for deliveries of items which should be included in the subscribed catalogue.	Only items which are delivered to the specified location (s) are to be included in the catalogue.

8.2. Catalogue Request (Business Document)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CRQ				
CRQ 0001	1	Catalogue Request Identifier	The identifier of the Catalogue Request	
CRQ 0002	0..n	Signature	To facilitate digital signing of the catalogue request	
CRQ 0003	0..*	Catalogue Request Description text	A general overall description for the Catalogue Request in clear text	Use case: Can be used for the requester to describe the requested content of the catalogue. This description is not an alternative of using Product groups or Product classification. UBL e.g. Computer accessories for laptops.
CRQ 0004	1..1	Catalogue Receiver	Receiver of the Catalogue Information	
CRQ 0005	1..1	Catalogue Provider	Provider of the catalogue	

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CRQ 0006	0..1	Procurement Party	The party at the customer side responsible for negotiating the contract and the contents of the catalogue.	UBL
CRQ 0007	0..n	Supplier party	Supplier (s) whose catalogue (s) is to be provided.	
CRQ 0008	0..n	Contract Reference	Reference to the Contract(s) the requested Catalogue is subject of.	
CRQ 0009	0..n	Document Reference	Reference to other document (s) applicable for the requested catalogue	UBL
CRQ 0010	0..1	Requested Catalogue Reference	Reference to the Catalogue to be updated	UBL
CRQ 0011	0..1	Requested Catalogue Update Code	The code specifying the requested content of the update catalogue	All updates are in comparison with the most previous catalogue or in comparison to the referenced catalogue to be updated. Code list: Full – a full catalogue including all updates must be provided Partial – only all the updated/changed Catalogue Items must be provided Partial Price - only price changed catalogue items must be provided Partial Item – only catalogue items with item specification changes must be provided
CRQ 0012	0..n	Requested Catalogue Language(s) Code	Requested Language(s) for the requested Catalogue	Code list: ISO 639
CRQ 0013	0..1	Requested Catalogue Currency Code	Requested Currency of the prices, allowances and charges in the requested Catalogue	Code list: ISO 4217
CRQ 0014	0..n	Requested Product Classification Scheme Code	The product classification scheme(s) required for classifying the products in the requested Catalogue	Code list UNSPSC CPV GS1 GPC
CRQ 0015	0..1	Requested Catalogue Validity Period	The period for which the requested Catalogue must be valid and ready for use.	
CRQ 0016	0..n	Requested Product Group(s)	Requested Product group(s) to be included in the Catalogue by using a Product Classification Scheme	

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CRQ 0017	0..n	Requested Catalogue item identification	Identification of the requested Catalogue items to be included in the Catalogue Information	
CRQ 0018	0..n	Requested Price type code	Requested Price type(s) to include in the Catalogue	<p>A code list containing different price types (examples)</p> <ul style="list-style-type: none"> - Contract price (net price) Price according to contract, including allowances and charges, excluding taxes - Contract price (gross price) Price according to contract, excluding allowances and charges and taxes - Current (today's) price, contractual (net price) Price according to contract, including allowances and charges, excluding taxes. This price can vary from day to day during the contract period. Price at time of transaction according to agreement: E.g fresh food, flowers, spot price - Discounted current (today's) price (net price), Price according to the supplier's price list or catalogue including allowances and charges, excluding taxes. This price can vary from day to day during the period of time. Price at time of transaction according to agreement: E.g fresh food, flowers, spot price - Catalogue price, discounted (net price) Price according to the supplier's price list or catalogue, including allowances and charges, excluding taxes. - Catalogue price, discounted (gross price) Price according to the supplier's price list or catalogue, excluding allowances, charges and taxes.
CRQ 0019	0..1	Requested Trading Terms	It must be possible to state requested trading terms and conditions that apply to all trade items. Trading terms must be possible to be given in text and/or as a reference to where the trading terms can be found (URL to national or industry specific terms). Also the trading terms can apply to specific applicable regions/country.	UBL

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CRQ 0020	0..n	Requested Target Market	A requested geographical area, based upon geographical boundaries sanctioned by the United Nations, for items which should be included in the requested catalogue.	Code list: ISO 3166 (country codes)
CRQ 0021	0..*	Requested Delivery Region, text	A requested medium-scale area of land for deliveries of items to be included in the requested Catalogue in clear text.	Only items which are delivered to the requested region are to be included in the catalogue.
CRQ 0022	0..n	Requested Delivery Location	A requested geographical location for deliveries of items to be included in the requested Catalogue.	Only items which are delivered to the specified location are to be included in the catalogue.

8.3. Application Response (Business Document)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
ARP				
ARP 0001	1..1	Document Information	Generic document.	
ARP 0002	1..1	Application Response Identifier	The identifier of the Application Response	
ARP 0003	0..n	Signature	To facilitate digital signing of the application response	UBL
ARP 0004	1..1	Application Response Code	The code for identifying the application response.	Code list: A – the received document is rejected B – the received document is accepted
ARP 0005	1..1	Application Response Issue date time	The date/time when the Application Response is issued.	
ARP 0006	0..n	Coded Reason for rejection	Coded reason for rejection.	Applicable to use only when code value A in “Application Response Code” is used (rejections). Code list to be provided The use of the business term must be agreed by the business parties. Agreement must be made if the rejection applies at both business level and technical level.
ARP 0007	0..*	Textual Reason for rejection	Reason for rejection in clear text.	Applicable to use only when code value A, is used (rejections) and coded reason for rejection not used. The use of the business term must be agreed by the business parties.

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
ARP 0008	1..1	Responded Business Document Reference	Reference to the responded business document	
ARP 0009	1..1	Response Provider	The party providing the Application Response	
ARP 0010	1..1	Response Receiver	The party receiving the Application Response	
ARP 0011	0..n	Response to received catalogue line	A response to a line in the received Catalogue	UBL

8.3.1. Response to received catalogue line (Application Response)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
ARL				
ARL 0760	1..1	Line Reference	Identifies the line in the referenced document	NES UBL
ARL 0761	1..1	Line Response Code	The code for identifying the line response.	Code list:: <ul style="list-style-type: none"> Accepted Rejected NES UBL
ARL	0..1	Reason for rejection of catalogue line, code	Coded Reason for rejection of the catalogue line	Code list?
ARL 0763	0..*	Reason for rejection of line, text	Reason for rejection of the line in clear text.	NES UBL

8.4. Catalogue

8.4.1. Catalogue Information Model

The Business Entities involved in a Catalogue and the relations between them are shown in the Catalogue Entity Model, figure 9.1 below.

A catalogue consists of Catalogue Items and these contain details of products, trade agreement and trade delivery. The business attributes of these entities form the basis for the information exchanged in the **Catalogue** transaction set.

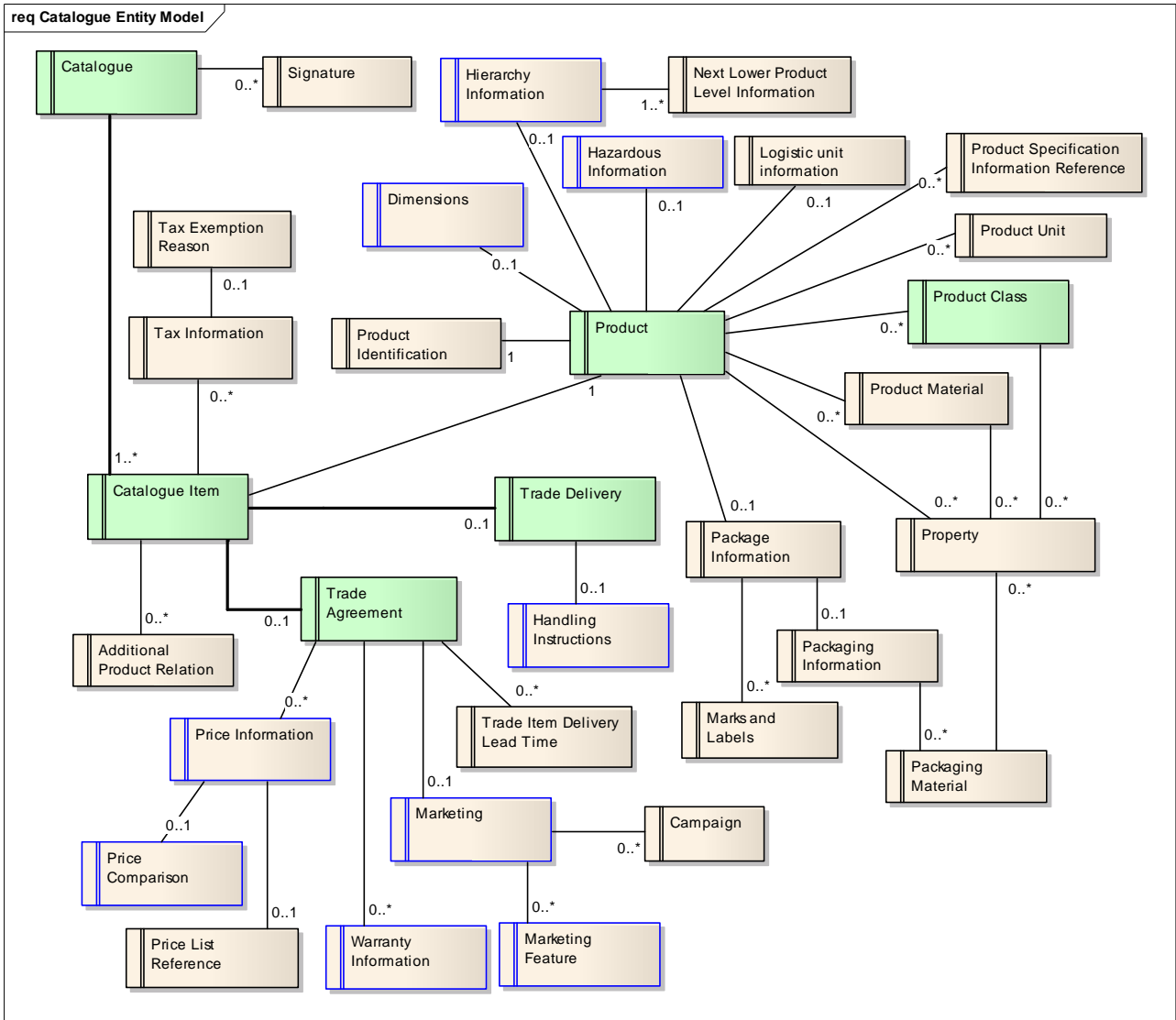


Figure 9-1 Catalogue Entity Model

8.4.2. Catalogue (Business Document)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CAT				
CAT 0001	1..1	Document Information	Generic document.	
CAT 0002	1..1	Catalogue Identifier	The identifier of the catalogue collection assigned by the Catalogue Provider	

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CAT 0003	0..1	Catalogue Request Reference	The reference to the request of the catalogue.	
CAT 0004	0..1	Catalogue Subscription Reference	The reference to the catalogue subscription.	
CAT 0005	0..*	Description	To provide an general overall description for the Catalogue	UBL e.g. Computer accessories for laptops.
CAT 0006	0..n	Signature	To facilitate digital signing of the catalogue	UBL
CAT 0007	0..1	Validity period	The period in which the catalogue or catalogue collection is valid	Validity period at this header level can be overridden at a lower level of the catalogue (catalogue item level or product level)
CAT 0008	1..1	Catalogue status code	Code giving the status of the catalogue	Code list: Original – Initial catalogue Replace - Catalogue replacing a previous catalogue Change - Catalogue containing changed items compared to previous catalogue
CAT 0009	0..1	Catalogue update/replace, Reference	Reference to the updated or replaced Catalogue	
CAT 0010	0..1	Price List Reference	A reference to the price list for this catalogue	Reference to a price list at this header level can be overridden at line level. A business rule must be made when using this business term concurrently with the price list reference at the level of Trade agreement.
CAT 0011	0..1	Contract Reference	A reference to business contract which the catalogue is based upon.	UBL Reference to contract at this header level can be overridden at line level. Must be possible to state the contract reference on header level in cases where it can not be stated on line level or where it must be mandated that only one contract can be referenced for all lines. Must be possible to give contract reference for each supplier.

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CAT 0024	0..n	Trading Terms	It must be possible to state trading terms and conditions that apply to all trade items. Trading terms must be possible to be give in text and/or as a reference to where the trading terms can be found (URL to national or industry specific terms). Also the trading terms can apply to specific applicable regions/country.	UBL
CAT 0012	1..1	Catalogue Provider	The Provider of the Catalogue Information.	
CAT 0013	1..1	Catalogue Receiver	The Receiver of the Catalogue Information	
CAT 0014	0..1	Procurement Party	The party at the customer side responsible for negotiating the contract and the contents of the catalogue.	UBL
CAT 0015	0..1	Supplier Party	Party who owns the item and consigns or makes them available in trade	
CAT 0016	0..1	Delivery Date Period	The date period in which catalogue items may be delivered	
CAT 0017	0..1	Payment Instructions	The payment instructions applicable to the catalogue	
CAT 0018	0..1	Payment Terms	The payment term applicable to the catalogue	
CAT 0019	0..n	Target market	A geographical area based upon geographical boundaries sanctioned by the United Nations, in which the trade items mentioned in the catalogue are available.	Target market at this header level can be overridden at line level. Code list: ISO-3166
CAT 0020	0..*	Delivery Region, text	A medium-scale area of land to which the items mentioned in the catalogue can be delivered.	Delivery region at this header level can be overridden at line level.
CAT 0021	0..n	Delivery Location	A geographical location to which the items mentioned in the catalogue can be delivered.	Delivery location at this header level can be overridden at line level
Catalogue detail level				
CAT 0022	0..1	Line Count Numeric	The number of lines in the catalogue	UBL has Items in Lines, the lines containing the extrinsic item information such as pricing.
CAT 0023	1..n	Catalogue Item	The information of a catalogue item.	

8.4.3. Catalogue Item (Catalogue)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CAI				
CAI 0100	1..1	Catalogue Item Identification	The identification of the catalogue item according to a cataloguing system	A continuous number or a logical ID? Or an unambiguous global unique identity? UBL – Catalogue Item Identification in Item
CAI 0101	1..1	Catalogue item action code	The code specifying the action valid for the catalogue item	UBL – Action Code in Catalogue Line GS1 Code list: - New (added) catalogue item - Updated catalogue item - Replaced catalogue item - Deleted catalogue item
CAI 0125	0..1	Trade Item Grouping Code	A code assigned by the supplier or manufacturer to logically group trade items independently from classification systems.	GS1
CAI 0126	0..1	Trade Item Grouping Name	The corresponding name in clear text for the grouping code of a trade item.	GS1
CAI 0102	0..1	Catalogue item availability Code	Code indicating availability of the Catalogue Item	UBL Code list: new, available – new and available catalogue item new, not available – new not available catalogue item, announcement only deletion, announcement – announcement for a future deletion of a catalogue item
CAI 0103	0..1	Catalogue Item Information Provider Party	The party who provides the catalogue item information.	UBL GS1
CAI 0104	0..1	Trade Item Shipping Period	Indicates the date period the catalogue item can be shipped.	GS1
CAI 0105	0..1	Catalogue item information Validity period	The period during which the information provided for the catalogue item is valid.	UBL GS1
CAI 0106	0..1	Catalogue item information Change latest date time	The date time on which the catalogue item data was last changed	GS1
CAI 0107	0..n	Multimedia presentation	Multimedia presentation of the item (e.g. picture or drawing)	UBL
CAI 0108	0..1	Additional Information	Provides more details of the item (e.g., the URL of a relevant web page).	UBL

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CAI 0109	0..*	Additional Information Note, text	Additional information in clear text about the item not already given as structured information To be used as non-structured information	UBL Not GS1
CAI 0110	0..*	Keyword, text	A text string or synonyms to be used for searching for the catalogue item.	UBL
CAI 0111	0..n	Replacing Catalogue item	References to catalogue items that can replace or substitute the catalogue Item	UBL Not GS1
CAI 0112	0..n	Accessory Product	Relation to accessories or attachments to the catalogue Item e.g. headphones to a mobile phone	UBL Not GS1
CAI 0113	0..n	Required Product	Relation to a required product to the Catalogue Item e.g. a subscription to a mobile phone	UBL
CAI 0114	0..n	Complementary Product	Relation to products that compliments the Catalogue Item e.g. coal for a barbecue	UBL
CAI 0115	0..n	Component Product	Relation to components or parts to the product e.g. an ink cartridge for a printer	UBL
CAI 0116	0..n	Additional Product relation	Relationship to other products other than replacing product, accessory product, required related product, complementary product and component product..	UBL Not to be mistaken for hierarchy information.
CAI 0118	0..1	Catalogue Item Reorderable Indicator	The indicator indicating that the catalogue item may be reordered.	GS1 Indicators: True, False
CAI 0119	0..n	Tracking System Identifier	Identifies a system by which the product is being tracked	e.g UK National joint implant register Code list of tracking systems to be developed
CAI 0120	0..n	Target market	A geographical area based upon geographical boundaries sanctioned by the United Nations, in which the catalogue items are available.	
CAI 0121	0..n	Tax Information	Information about all applicable taxes for the catalogue item	If needed Tax information recurs per each tax type (Tax Type Code).
CAI 0122	0..1	Trade Agreement	Information on trade agreements	
CAI 0123	0..1	Trade Delivery	Information on trade deliveries.	
CAI 0124	1..1	Product	Information on the product (trade item).	

8.4.4. Tax Information (Catalogue Item)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
TXI				
TXI 0200	1..1	Tax Type Code	The code indicating the type of tax	Examples of Tax Types: <ul style="list-style-type: none"> - Alcohol tax - Value added tax (VAT) - Environmental tax - Goods and services tax - Coffee tax Code list UN/CEFACT 5153
TXI 0201	0..1	Tax Type Description	Description of tax type code.	GS1
TXI 0202	1..1	Tax Category Code	Code specifying a duty or tax or fee category	Examples of Categories: <ul style="list-style-type: none"> - Exempt from tax - Standard rate Code list UN/CEFACT 5305
TXI 0203	0..1	Tax exemption reason	Information about the reason for exemption of tax, coded or in clear text	Used when the catalogue line is exempt from tax. (used when Tax Category is specified as exempt from tax)
TXI 0204	0..1	Tax Rate Percentage	The percentage value of the tax rate when specified in percentage	
TXI 0205	0..1	Tax Rate Monetary amount	The monetary value of the tax rate when specified as a monetary amount (for a specified currency)	Example: Electricity tax can be specified as an amount per kilowatt hour.
TXI 0206	0..n	Tax location	A country or other geographical area to which a specific tax is applicable.	GS1 Example Depending on the region the electricity tax is different (Sweden).
TXI 0207	0..n	Tax Agency Code	A code identifying the (national) agency responsible for the tax code list.	GS1

8.4.5. Tax Exemption (Tax Information)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
TXE				
TXE 0210	0..1	Reason for exemption, code	A code for the reason for tax exemption.	
TXE 0211	0..1	Reason for exemption, text	Reason for tax exemption in clear text.	

8.4.6. Trade Agreement (Catalogue Item)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
TAG				
TAG 0220	0..1	Procurement Party	The party at the customer side responsible for negotiating the contract and the contents of the catalogue.	UBL – Contractor Customer Party in Catalogue Line Provides for a multi customer catalogue
TAG 0221	0..1	Supplier Party	Party who owns the product and consigns or makes them available in trade and	UBL Not GS1 Provides for multi supplier catalogue.
TAG 0222	0..n	Trading Terms	It must be possible to state trading terms and conditions that apply to all trade items. Trading terms must be possible to be give in text and/or as a reference to where the trading terms can be found (URL to national or industry specific terms). Also the trading terms can apply to specific applicable regions/country.	UBL
TAG 0223	0..1	Contract Reference	The reference to a Contract.	Provides for multi supplier catalogue.
TAG 0224	0..1	Contract Subdivision text	A text giving a subdivision of a contract or tender.	UBL Examples "Installation", "Phase One", Support and Maintenance"
TAG 0225	0..1	Price Contract Reference	The reference to a contract specifying the price conditions.	
TAG 0226	0..1	Customer Support Centre - Party	The customer support centre for the catalogue item.	GS1
TAG 0227	0..1	Restricted information indicator	The indicator to qualify that catalogue item information is restricted to specific use according to agreement.	Indicators: True, False
TAG 0228	0..1	Product Ordering Period	The period of date the catalogue item (product) can be ordered.	GS1
TAG 0229	0..1	Product Exclusivity end date time	The date and time at which a catalogue item (product)no longer is exclusive to the trading partner	GS1 – special exclusivity agreements between brand owner and a buyer (retailer)
TAG 0230	0..1	Availability To Consumer Start Date and Time	The first date/time the buyer is allowed to resell the catalogue item (product).	GS1
TAG 0231	0..1	Product First Delivery Date	The earliest date at which the supplier can deliver the catalogue item (product) to the trading partner.	GS1 Withdrawn

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
TAG 0232	0..1	Minimum product lifespan from time of arrival, Days	A number of days from the arrival date, guaranteed by the manufacturer, before the expiration date of the product.	GS1
TAG 0235	0..1	Orderable indicator	The indicator identifying that the catalogue item may be ordered	UBL GS1 Indicators: True, False
TAG 0236	0..1	Made to Order Indicator	Indicates that the item will only be produced when the manufacturer receives an order	Not GS1 Indicators: True, False
TAG 0237	0..n	Trade Item Delivery Lead Time	The time taken from the time of order to the time of delivery for the Item in a specific delivery quantity to a specific delivery location or region.	UBL GS1
TAG 0238	0..1	Catalogue Item Pick Up Lead Time	The earliest time an ordered catalogue item is available for pick up expressed as weeks, days, hours (etc).	GS1
TAG 0239	0..1	Catalogue Item Order Incremental Quantity	The incremental quantity in which the product must be ordered e.g. 10 = orders of 10, 20, 30 etc can be ordered.	UBL GS1
TAG 0240	0..1	Catalogue Item Minimum Order Quantity	The minimum quantity of the product which must be ordered	UBLGS1
TAG 0241	0..1	Catalogue Item Minimum Order Quantity Date Period	The date period for when the minimum order quantity is available for ordering	GS1
TAG 0242	0..1	Catalogue Item Maximum Order Quantity	The maximum quantity of the catalogue item available for ordering	UBL GS1
TAG 0243	0..1	Catalogue Item Maximum Order Quantity Date Period	The date period for when the maximum order quantity is available for ordering	GS1
TAG 0244	0..1	Ordering Unit Of Measure	The unit of measure for the ordering of the catalogue item (product).	GS1 - code list UN/ECE rec 20 Examples of codes for use : KGM – the item is to be ordered in kilograms EA – the item is to be ordered in each LTR - the item is to be ordered in litre

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
TAG 0245	0..1	Selling Unit Of Measure	The unit of measure for the selling of the product to the end consumer.	GS1 - code list UN/ECE rec 20 Examples of codes for use : KGM – the item is to be sold in kilograms EA – the item is to be sold in each LTR - the item is to be sold in litre
TAG 0246	0..1	Purchase Conditions	Conditions applying to the sale or purchase of the catalogue item	UBL Class in UBL "Information about purchasing, sales, or payment conditions." Contains: ID, ActionCode, Description and DocumentReference Class have to be developed.
TAG 0247	0..*	Warranty Information text	Warranty information text about the catalogue item.	UBL (GS1- used in "GS1 XML extension" for Hard Lines)
TAG 0248	0..n	Price information	Price(s) information applied to the product within trade agreement	
TAG 0249	0..1	Delivery terms	The entity contains the delivery terms and if relevant the location related to the delivery terms.	
TAG 0250	0..1	Marketing	Marketing information about the catalogue item	

8.4.7. Price information (Trade agreement)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRI				
PRI 0270	0..1	Price List Reference	A reference to the price list used for the pricing of the catalogue item.	UBL A business rule must be made when using this business term concurrently with the price list reference at the catalogue header level.
PRI 0271	0..1	Catalogue Item Price amount	The price amount for the catalogue item	UBL

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRI 0272	0..1	Price Amount Type Code	The code for the Price Type of the price amount	<p>UBL</p> <p>Examples of Price types to include in code list for "Price type code" :</p> <ul style="list-style-type: none"> - Suggested Retail Price By the manufacturer suggested retail price to consumer. Normally used to establish a proposed value for the trade item. May or may not appear on the package. - Contract price (net price) Price according to contract, including allowances and charges, excluding taxes - Contract price (gross price) Price according to contract, excluding allowances and charges and taxes - Current (today's) price, contractual (net price) Price according to contract, including allowances and charges, excluding taxes. This price can vary from day to day during the contract period. Price at time of transaction according to agreement: E.g fresh food, flowers, spot price products - Discounted current (today's) price (net price), Price according to the supplier's price list or catalogue including allowances and charges, excluding taxes. This price can vary from day to day during the period of time. Price at time of transaction according to agreement: E.g fresh food, flowers, spot price products - Catalogue price, discounted (net price) Price according to the supplier's price list or catalogue, including allowances and charges, excluding taxes. - Catalogue price, discounted (gross price) Price according to the supplier's price list or catalogue, excluding allowances, charges and taxes. - Additional Price Another price type different from coded price types
PRI 0273	0..1	Additional Price Amount Type Code	The code for an additional price amount type for the item apart from qualified price types.	UBL
PRI 0274	0..1	Price Basis Quantity	The quantity of the Item to which the applicable valid price applies	
PRI 0275	0..n	Allowance Charge	An association to charges and discounts for the Catalogue Item	UBL
PRI 0276	0..*	Price Change Reason Text	The reason for the price change expressed as text	UBL
PRI 0278	0..n	Validity Period for Price	The period(s) for which the price is valid	UBL
PRI 0279	0..1	Bracket Price Quantity Range	The quantity range (minimum, maximum) of the item for which the price is valid	Not GS1

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRI 0280	0..n	Price Validity Location	A delivery location(s) for which the price is valid.	UBL
PRI 0281	0..1	Price Comparison	Information about details for price comparison of the product	UBL GS1

8.4.8. Price List Reference (Price information)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PLR				
PLR 0283	0..1	Price List Identifier	The identifier for the Price List	UBL
PLR 0284	0..1	Validity Period	The period(s) for which the price list is valid	UBL
PLR 0285	0..1	Immediate Previous Price List Reference	A reference to a immediate previous Price List	UBL

8.4.9. Price Comparison (Price Information)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRC				
PRC 0290	1..1	Comparison Price Amount	The price for the comparison quantity of the trade item in respect to the price comparison type (code)	UBL
PRC 0291	1..1	Price Comparison Quantity	The quantity used for price comparison with other items.	UBL GS1

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRC 0292	1..1	Price Comparison Type Code	Code indicating how price comparison is made. How to calculate the comparative price.	<p>GS1</p> <p>Code list: "GS1 PriceComparisonContentType"</p> <p>DRAINED_WEIGHT - The weight of a product when all liquids used in the packaging of the product have been removed.</p> <p>INCLUDING_ADDITIVES - Specified using MLT or FZ as unitOfMeasure (price per litre/pint drink including additives other than water). Food service.</p> <p>MILLILITRES_EXCLUDING_DEPOSIT - Specified using MLT as unitOfMeasure (price per litre, not including the package deposit charge)</p> <p>PER_CUBIC_METRE - The Price Comparison Content specified may be used to calculate the price per cubic metre.</p> <p>PER_DOSE - Specified using PCE as unit of measure.</p> <p>PER_KILOGRAM - Specified using GRM as unitOfMeasure (price per kilogram).</p> <p>PER_LITRE - Specified using MLT as unitOfMeasure (price per litre).</p> <p>PER_LOAD - Specified using PCE as unit of measure (price per load - used for washing up powder).</p> <p>PER_METRE - Specified using MMT as unitOfMeasure</p> <p>PER_PIECE - Specified using PCE as unitOfMeasure (price per piece)</p> <p>PER_PINT - Specified using FZ as unitOfMeasure (price per pint)</p> <p>PER_POUND - Specified using OZ as unitOfMeasure (price per pound)</p> <p>PER_SQUARE_METRE - The Price Comparison Content specified may be used to calculate the price per square metre.</p> <p>PER_WASH - Specified using PCE as unitOfMeasure (price per wash – used for washing detergent).</p> <p>PER_YARD - Specified using IN as unitOfMeasure (price per yard)</p> <p>READY_TO_DRINK - Specified using MLT or FZ as unitOfMeasure (price per litre/pint diluted drink).</p> <p>READY_TO_EAT - Specified using GRM or OZ as unitOfMeasure (price per kilogram/pound prepared food).</p>

8.4.10. Trade Delivery (Catalogue Item)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
TDY				
TDY 0300	0..1	Handling Instructions	The specific instructions for storage, transport or handling of the product.	
TDY 0301	0..1	Carrier Party	The party which provides transport services.	
TDY 0302	0..n	Production Batch Identification	An identification of the production batch of the product.	
TDY 0303	0... 1	Import Classification Code List Type Code	A code indicating the import classification code list used for the trade item.	GS1 Imports and exports of trade items require classification codes to determine appropriate duties and tariffs. Code list: - CUSTOMS_TARIFF_NUMBER - HARMONIZED_COMMODITY_DESCRIPTION_AND_CODING_SYSTEM - HARMONIZED_TARIFF_SCHEDULE_OF_THE_US - INTRASTAT - INTRASTAT_COMBINED_NOMENCLATURE - NETHERLANDS - TARIF_INTEGRE_DE_LA_COMMUNAUTÉ
TDY 0304	0..1	Import Classification Value	The used value from the according import classification code list for the trade item	GS1

8.4.11. Product (Catalogue Item)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRO				
PRO 0312	1..1	Product Identification	The identification(s) for the product	UBL GS1 (including Product. Identification, Global Identification, Seller Assigned Identification, Buyer Assigned Identification, Manufacturer Assigned Identification, Industry Assigned Identification)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRO 0318	0..n	Official regulations compliance code	A code that indicates that a product is in compliance with specific applicable official regulations	GS1 Code list: different code lists for different kind of products
PRO 0319	0..1	Consumer unit indicator	Indicator identifying the product as a consumer unit.	GS1 Indicators: True, False
PRO 0320	0..1	Despatch unit indicator	The indicator identifying that the product may serve as a dispatch (shipping) unit	GS1 Indicators: True, False
PRO 0321	0..1	Product Launch Cancellation date	The cancellation date of the launch of a product that was never and will never be manufactured, but may have been presented to buyers.	GS1
PRO 0322	0..1	Manufacturer Party	The party who makes the product (not to imply a party who simply provides packaging of the product)	UBL
PRO 0323	0..1	Product rights owner party	The party who owns the rights of the product	
PRO 0362	0..1	Minimum product lifespan from time of production, Days	A number of days from the production date, guaranteed by the manufacturer, before the expiration date of the product	GS1
PRO 0363	0..1	Opened Product Lifespan, Days	The number of days remaining from the time of break opening of the packaging of the product until not good for consuming	GS1 (for retail - information about when product to be removed from the shelf)
PRO 0324	0..1	Product Discontinued date	The date on which the product is no longer produced.	GS1
PRO 0325	0..1	Product Change latest date time	The date time on which the product data was last changed	GS1
PRO 0326	0..*	Product Name Text	The name of the product which distinguish it from other products and if necessary to be used in trade messages such as order and invoice.	UBL
PRO 0327	0..*	Product Functional Description Text	A description of the use of the product.	GS1
PRO 0328	0..*	Product Description Short Text	A short description of the product which can be used on shelf edge and on receipts.	GS1
PRO 0329	0..1	Model Name	The model name	UBL

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRO 0330	0..*	Additional Product Description Text	An additional description of the product.	UBL GS1
PRO 0331	0..*	Variant description Text	A description used to identify the variant of the product. Variants are the distinguishing characteristics that differentiate items with the same brand and size including such things as the particular flavour, fragrance, taste.	GS1
PRO 0332	0..1	Product Brand Name	The brand name of the product	UBL GS1
PRO 0333	0..1	Sub Brand Name	Second level of brand name for the product.	GS1 – E.g. trademark. It is the primary differentiating factor that a brand owner wants to communicate to the consumer or buyer. E.g. Yummy-Cola Classic. In this example “Yummy-Cola” is the brand name and “Classic” is the subBrand.
PRO 0334	0..*	Descriptive Form Text	A description of the physical form or shape of the product. Used, for example, in pharmaceutical industry to indicate the formulation of the trade item. Defines the form the trade item takes and is distinct from the form of the packaging. Examples: paste, gel, powder	GS1
PRO 0335	0..1	Product Quantity	The quantity of the content contained in the product (trade item) (incl measurement unit code according to UN/ECE recommendation 20 / UN/CEFACT code list 6411)	GS1 UBL
PRO 0336	0..1	Quantity Of Product Contained In Inner Pack	Indicates the number of non-coded physical groupings (inner packs) of next lower level trade items within the current level.	GS1
PRO 0337	0..1	Product Drained Weight	The weight of the product of the trade item when drained of its liquid.	GS1
PRO 0338	0..1	Trade Item Variable Measure Indicator	Indicator identifying the trade item as a variable measure trade item. The content of the trade item vary about either weight, length or volume (or other)	GS1 - Boolean true/false

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRO 0339	0..1	Country of origin Code	The code for the country in which (where) the product has been produced or manufactured	UBL GS1 Code list: ISO 3166
PRO 0340	0..1	Subdivision Country of Origin code	A code for subdivision of country of origin (state, province or region) in which the product has been produced or manufactured	UBL
PRO 0341	0..1	Country of assembly	The country where the product is assembled.	GS1 Code list: ISO 3166
PRO 0342	0..1	Product Colour Code	A code for describing the colour of the product.	A code list is required to identify the colour of the product. No ISO standards exist. Each industry needs to determine which code agency it will use (e.g NCS-natural color system) Colour can also be specified by using Property
PRO 0343	0..*	Product Colour Description	A clear text describing the colour of the product.	Not to be used if code for colour is used One occurrence for each language Colour can also be specified by using Property
PRO 0344	0..1	Product Prepack Type Code	A code specifying if the content of the product is pre-packed or contains loose products.	E.g. a trade item containing plastic bags with apples is of the type "pre-packed". A trade item containing loose apples is of the type "loose". GS1 – code list Code list: PRE-PACKED LOOSE
PRO 0345	0..1	Customer Configurable Code	A code indicating that the customer may configure the item	Code list: yes/no/not used
PRO 0346	0..1	Recyclable type code	A code specifying the recyclable sign marked on the product.	Code list for available recyclable signs to be developed.
PRO 0347	0..1	Product marked with Serial number Indicator	Indicate if a serial number is marked on the product.	Not GS1 True/false
PRO 0348	0..1	Security tag type Code	A code indicating the type of security tag on the product	GS1 Code list: Acousto-Magnetic Electro-Magnetic Ink or dye Microwave Radio Frequency.

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRO 0349	0..1	Security tag location Code	A code specifying where the security tag is located on the product	GS1 Code list: On outside Concealed inside Integrated Inside
PRO 0350	0..n	Product Unit	An association to actual instance(s) of the Product	UBL
PRO 0351	0..*	Hazardous information	The information regarding hazardous and dangerous characteristics of the product.	UBL GS1
PRO 0352	0..1	Package information	Information about how the product is packed e.g. package type	
PRO 0353	0..1	Logistic unit information	The information about the configuration of the logistic unit (e.g pallet, roll cage) Only to be used when the product is packed in a logistic unit and that unit is not specified as a "product" and consequently has no unique identification (e.g a GTIN). (Equivalent info on logistic units with unique identification is found in the class "Hierarchy Information")	
PRO 0354	0..1	Hierarchy information	Description of product hierarchy, multi pack and product composed by more than one product.	GS1 Not to be mistaken for item relation class Cardinality is 1..1 for multi pack product (contain products with same id) Cardinality is 1..1 for mixed pack product (product composed by more than one product) The class is not used for the product at the lowest level (base unit).
PRO 0355	0..1	Physical Dimensions	The physical dimensions of the product.	
PRO 0357	0..n	Property	A technical property of the product	
PRO 0358	0..n	Product Class	Classification of the product	UBL
PRO 0359	0..n	Product Material	The material(s) of which the product is composed	
PRO 0360	0..n	Product Information Representation Reference	A reference to another representation format for product information.	Example - ontoML representation of the product - BMEcat - Dicalis

8.4.12. Product Identification (Product)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PID				
PID 0370	1..1	Identification of the product	An identifier for the Product	UBL
PID 0371	0..1	Used Product Identification System	The used system for identification of the Product	Code list UN/CEFACT 7143
PID 0372	0..1	Identification Issuing Party	An association to the Party issuing the Item Identification	UBL
PID 0374	0..1	Product Identification Issuing Party	An association to the Party that issued the Item Identification	UBL
PID 0375	0..1	Extended Identification of the product	An extended identifier for the item that identifies the item with specific properties, e.g., Item 123 = Chair / Item 123 Ext 45 = brown chair.	UBL
PID 0376	0..n	Identifying Physical Attribute	Physical attribute(s) of the product for additional identification of the product	UBL
PID 0377	0..n	Identifying Measurement Dimension	Measurement(s) of the product for additional identification of the product	UBL

8.4.13. Marketing (Trade Agreement)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
MAR				
MAR 0400	0..n	Campaign	A specific campaign to market the product.	GS1
MAR 0401	0..1	Additional Marketing Document Reference	The link (e.g. URL) to a additional document.	GS1
MAR 0402	0..1	Product Range Name	A name, used by the brand owner, that span multiple consumer categories or uses.(E.g. Waist Watchers,).	GS1
MAR 0403	0..1	Brand Owner Party	Name and identification of the party who owns the brand of the product.	GS1 May or may not be the same party as the information provider.
MAR 0404	0..n	Product Organic Code	Indicates the code for organic status of a product or of one or more of its components for marketing purpose.	GS1

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
MAR 0405	0..n	Organic Claim Agency	Indication of the governing body that determines if products can claim to be organic for marketing purpose	GS1
MAR 0406	0..*	Health Claim Text	Free text field for any health claims according to regulations of the target market.	
MAR 0407	0..n	Trade Item_ Marketing Special Item Code	A code used for identifying specific items for promotional or special tracking purposes	GS1 code list: GIFT_WITH_PURCHASE
MAR 0408	0..*	Trade Item Feature Benefit Text	Description in clear text to describe the key features or benefits of the product/trade item. Used e.g for display purposes.	GS1
MAR 0409	0..1	Season period Date and Time	Indicates the period for a seasonal product.	GS1
MAR 0410	0..*	Trade Item Marketing Message	Marketing message for a trade item to use towards the consumer.	GS1 Format up to 1000 alfanumerics
MAR 0411	0..1	Descriptive Size Text	An alphanumeric size factor of the product . IE Jumbo, Capri, Full Length, Maxi . (Multi language)	GS1
MAR 0412	0..*	Applicable Season, text	Season(s) applicable to the item in clear text.	GS1
MAR 0413	0..n	Season Parameter, code	Code indicating the season, in which the trade item is available, i.e. assignment to one of the following collection periods: spring/summer, autumn/ winter or all year around.	GS1 Code list: Autumn Spring Summer Winter All_year
MAR 0414	0..1	Consumer Age, text	The age of the targeted consumer age range for which the product has been designed in clear text.	GS1
MAR 0415	0..1	Consumer Gender, text	The gender of the targeted consumer for which the trade item (product) has been designed. In clear text	GS1
MAR 0416	0..n	Marketing Feature	A marketing feature of the product, such as target consumer group.	

8.4.14. Campaign (Marketing)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
CAM				
CAM 0420	0..1	Product Marketing Campaign Name	The name of a marketing campaign of a product.	GS1
CAM 0421	0..1	Product marketing campaign period	The period for the marketing campaign of a product.	GS1

8.4.15. Warranty information (Trade Agreement)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
WAI				
WAI 0430	0..1	Warranty Party	An association to the party providing warranty of the Item on the Catalogue Line	UBL
WAI 0431	0..1	Warranty Validity Period	An association to the validity of the warranty of the Item on the Catalogue Line	UBL
WAI 0432	0..*	Warranty Information text	Warranty information text about the catalogue item.	UBL (GS1- used in "GS1 XML extension" for Hard Lines)

8.4.16. Dimensions (Product)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
DIM				
DIM 0440	0..1	Product Material Area Weight	The measured area weight of the material.	GS1 (expressed in ounces per square yard or grams per square meter)
DIM 0441	0..1	Product Gross weight	The gross weight of the product (includes all packaging materials of the product)	GS1 (At pallet level the item Gross Weight includes the weight of the pallet itself)
DIM 0442	0..1	Product Height	The height of the product. The vertical dimension from the lowest extremity to the highest extremity, including packaging. (At a pallet level the item Height will include the height of the pallet itself.)	GS1
DIM 0443	0..1	Product depth	The depth of the product. Measured from front to back of the product.	GS1 Measurements are relative to how the customer normally views the trade item. May be needed to be associated with a valid UoM.

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
DIM 0444	0..1	Product width	The measurement from left to right of the product. Measurements are relative to how the customer normally views the trade item. Needs to be associated with a valid UoM.	
DIM 0445	0..1	Product diameter	The measurement of the diameter of the product at its largest point.	GS1 For example, 165 "mmt", value - mmt, diameter. Has to be associated with valid UoM.

8.4.17. Handling Instructions (Trade Delivery)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
HAI				
HAI 0460	0..1	Stacking factor	The number of levels the item or package may be stacked	GS1
HAI 0461	0..1	Maximum stacking weight	The maximum admissible weight that can be stacked on the item or package.	GS1
HAI 0462	0..1	Delivery to distribution centre temperature maximum	The permitted maximum temperature of the item or package on transport to the distribution centre.	GS1
HAI 0463	0..1	Delivery to distribution centre temperature minimum	The permitted minimum temperature of the item or package on transport to the distribution centre.	GS1
HAI 0464	0..1	Delivery to market temperature maximum	The permitted maximum temperature of the item or package during delivery to market	GS1
HAI 0465	0..1	Delivery to market temperature minimum	The permitted minimum temperature of the item or package during delivery to market to market	GS1
HAI 0466	0..1	Storage temperature maximum	The maximum temperature at which the item or package can be stored.	GS1
HAI 0467	0..1	Storage temperature minimum	The minimum temperature at which the item or package can be stored.	GS1
HAI 0468	0..1	Storage humidity maximum	The maximum humidity in percentages that the item or package should be stored in	GS1

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
HAI 0469	0..1	Storage humidity minimum	The minimum humidity in percentages that the item or package should be stored in	GS1
HAI 0470	0..*	Instruction text	Specific handling instructions in text format (e.g. lift requirements)	

8.4.18. Hazardous Information (Product)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
HZI				
HZI 0500	0..1	Dangerous goods regulation code	The code specifying a dangerous goods regulation.	GS1 E. g. ADR (<i>European Agreement Concerning the International Carriage of Dangerous Goods by Road</i>) Code list:
HZI 0501	0..n	Dangerous Goods Hazard Class	An identification of the hazard class applicable to the dangerous substance or product as defined by the relevant regulation authority, such as the IMDG class number of the SOLAS convention of IMO or the ADR/RID class number of the road/rail environment. Describes the type of dangerousness. Dangerous goods classification of the trade item. There are 9 danger classes, some classes are further subdivided into subclasses. "Class" number explains in general terms the nature and properties of the goods and serves to classify them together in terms of their most significant risk.	GS1
HZI 0502	0..1	Dangerous Goods Packing Group	Identifies the degree of risk the dangerous goods present during transport according to IATA/IMDG/ADR/RID regulations.	GS1
HZI 0503	0..1	Dangerous Goods Hazardous Code Identifier	Dangerous goods hazard ID number, which must be applied to the vehicle, when transporting this trade item (dangerous good) by road or rail, to inform the police, the fire brigade and others in case of an accident about the kind of danger caused by the cargo.	GS1

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
HZI 0504	0..1	Dangerous Goods AMargin Number	Code indicating whether facilitations for the transport of defined limited quantity by road or rail are possible or not. (code according to ADR)	GS1 Information, whether for the base trade item or further packaging trade item a dangerous goods a-margin number does exist in the European dangerous goods agreements (and in the respective national dangerous goods legislation), thus facilitations for the transport of defined limited quantity by road or rail are possible or not. If they are possible, they must be indicated, whether they are used by the data supplier. Example: LQ0 = Not limited quantity Code list: according to ADR
HZI 0505	0..1	Dangerous goods regulation name	The name of the dangerous substance or product as provided in the list of dangerous goods regulations.	GS1
HZI 0506	0..1	Dangerous goods technical name	Provides the details of hazardous information. Chemical term of the trade item, listed by name and allowed in the substance list of GGVS (Dangerous Goods Ordinance for Roads) or GGVE (Dangerous Goods Ordinance for Rail). The name by which as dangerous substance or product may be correctly identified or which is sufficient information to permit identification by reference to generally available literature.	GS1
HZI 0507	0..n	Dangerous Goods Shipping Name	Shipping name of the trade item (dangerous goods). The recognized agencies (see dangerousGoodsRegulationsCodes), in their regulations, provide a list of all acceptable proper shipping names.	GS1
HZI 0508	0..1	United Nations Dangerous goods (UNDG) Identification	The four-digit number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods to classify a substance or a particular group of substances. Abbreviation: UNDG Number.	GS1
HZI 0509	0..1	Flash point temperature	The lowest temperature at which a substance gives off a sufficient vapor to support combustion.	GS1
HZI 0510	0..n	Material Safety Data Sheet Reference	The identity of a Material Safety Data Sheet for the product	GS1 The Identity of a MSDS is to be provided in this element.

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
HZI 0511	0..1	Hazardous information contact	Party to be contacted with relation to the product hazardous information	Not GS1

8.4.19. Hierarchy Information (Product)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
HII				
HII 0520	0..1	Number (quantity) of different products contained in a mixed product	The number (quantity) of different unique products contained in a mixed product. A mixed product may contain 2 or more different products.	GS1
HII 0521	0..1	Product Total Quantity	Total quantity of products that this product contains.	GS1
HII 0522	1..n	Next lower product level information.	Information on next lower product level.	GS1 Cardinality is 1..1 for multi pack (products with same id) Cardinality is 1..n for mixed packs (product composed by more than one product)

8.4.20. Next lower product level information (Hierarchy Information)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
NLL				
NLL 0523	1..1	Product Identification of a product contained in a product	The unique identification of the product contained in an identified product.	GS1 UBL
NLL 0524	1..1	Quantity Of Products contained in a product	The quantity of products contained in the product	GS1

8.4.21. Additional Product Relation (Catalogue Item)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
APR				
APR 0530	1..1	Item identification	The identification of the related catalogue item.	not GS1
APR 0531	1..1	Relation type	The code specifying the type of relation between items	not GS1 code list?

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
APR 0532	0..1	Related item quantity	The quantity of related catalogue items, e.g. next lower level item that this item contains.	not GS1
APR 0533	0..*	Additional Information	A textual description of or other information about the relation.	not GS1

8.4.22. Marketing Feature (Marketing)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
MAF				
MAF 0550	0..1	Type	The type of Marketing Feature.	
MAF 0551	0..1	Type description	The description of the type of Marketing Feature.	
MAF 0552	0..1	Definition	The definition of the type of Marketing Feature.	
MAF 0553	0..n	Coded value	The coded value(s) of the marketing feature.	
MAF 0554	0..*	Text value	The textual value(s) of the marketing feature.	
MAF 0555	0..n	Measurement	Measured value(s) of the marketing feature.	

8.4.23. Marks and Labels (Package Information)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
MAL				
MAL 0570	0..n	Barcode type marked on package, code	The type of bar code or codes, which are visible on the product or package.	<p>GS1</p> <p>Code list:</p> <p>COMPOSITE_COMPONENT_A - The Composite symbology integrates both a GS1 System linear symbol and a 2D Composite Component as a single symbology.</p> <p>COMPOSITE_COMPONENT_B - The Composite symbology integrates both a GS1 System linear symbol and a 2D Composite Component as a single symbology.</p> <p>COMPOSITE_COMPONENT_C - The Composite symbology integrates both a GS1 System linear symbol and a 2D Composite Component as a single symbology.</p> <p>EAN_UCC_13_SYMBOL – ISO certified barcode used for GTIN-13.</p> <p>EAN_UCC_8_SYMBOL – ISO certified barcode used for GTIN-8.</p>

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
				<p>ITF_14_SYMBOL – ISO certified barcode used for GTIN-14.</p> <p>GS1_128_SYMBOL – ISO certified barcode used for information using GS1 128 standard.</p> <p>UPC_A_SYMBOL – Barcode used for GTIN-12.</p> <p>UPC_E_SYMBOL – Barcode used for representing a GTIN-12 in six explicitly encoded digits using zero-suppression techniques</p> <p>GS1_DATABAR_OMNIDIRECTIONAL – Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14</p> <p>GS1_DATABAR_STACKED_OMNIDIRECTIONAL - Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14</p> <p>GS1_DATABAR_STACKED – Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14</p> <p>GS1_DATABAR_TRUNCATED - Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14</p> <p>GS1_DATABAR_EXPANDED - Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14 together with additional information using GS1 128 standards</p> <p>GS1_DATABAR_EXPANDED STACKED - Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14 together with additional information using GS1 128 standard</p> <p>GS1_DATABAR_LIMITED - Barcode used for any of GTIN-8 GTIN-12 GTIN-13 and GTIN-14</p>
MAL 0571	0..1	Expiration date type marked on package, code	A code specifying the type of expiration date of the product marked on the product.	GS1 One of the codes: "BEST_BEFORE_DATE" or "EXPIRY_DATE"
MAL 0572	0..1	Package/Product Marked With Batch number Indicator	Indicate if the product/package is marked with a batch number.	GS1 Boolean true/false (true = marked with batch number)
MAL 0573	0..1	Package marked with Retail price Indicator	The indication of whether there is a retail price of the product physically on or attached to the package	GS1 – Boolean true/false (true = marked with retail price)
MAL 0574	0..1	Package Marked With Ingredients Indicator	Indicates if the package is marked with ingredients.	GS1 Boolean true/false (true = marked with ingredients)
MAL 0575	0..1	Package Marked With Net Content Indicator	Indicates if the package is marked with net content.	GS1 Boolean true/false (true = marked

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
				with net content)
MAL 0576	0..1	Package Marked Returnable Indicator	Indicates if the package is marked as returnable.	Boolean true/false (true = marked as returnable)
MAL 0577	0..1	Retail price Marked on Package	A retail price of the product as marked on the package.	GS1
MAL 0578	0..*	Offer Text marked on package, text	A text about an offer marked on the package.	GS1
MAL 0579	0..n	Package Marks containment Code	The code (s) marked on package stating whether or not the product contains or is free from a specific substance.	<p>GS1</p> <ul style="list-style-type: none"> - code list FREE_FROM_EGG Marks if the product is free from egg. FREE_FROM_FISH The item is physically marked as being free from fish, as approved by the appropriate authority of the target market. FREE_FROM_GLUTEN Marks if the product is free from gluten. FREE_FROM_LACTOSE Indicates if the amount of lactose is reduced. FREE_FROM_LATEX The item is physically marked being free from Latex (rubber) as approved by the appropriate authority of the target market. FREE_FROM_LEGUME_PROTEIN The item is physically marked as being free from legume protein, as approved by the appropriate authority of the target market. FREE_FROM_MILK The item is physically marked as being free from milk and any of its derivatives, as approved by the appropriate authority of the target market. FREE_FROM_MILK_PROTEIN Free from milk protein. FREE_FROM_NATURAL_GLUTEN The item is physically marked as being naturally free from gluten and not extracted as part of the manufacturing process, as approved by the appropriate authority of the target market. FREE_FROM_PEAUNTS Marks if the product is free from peanuts. FREE_FROM_PROTEIN The item is physically marked as being free from protein, as approved by the appropriate authority of the target market. FREE_FROM_PVC The item is physically marked as being free from

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
				<p>PVC (Polyvinyl chloride), as approved by the appropriate authority of the target market.</p> <p>FREE_FROM_SOYA Free from soya.</p> <p>FREE_FROM_SUGAR Marks if the product is free from sugar.</p> <p>REDUCED_LACTOSE Indicates if the amount of lactose is reduced.</p> <p>REDUCED_PROTEIN The item is physically marked as containing a low level of protein as approved by the appropriate authority of the target market.</p> <p>WITHOUT_ADDED_SUGAR The item is physically marked that no sugar has been added when manufacturing the product but it still can contain sugars that are naturally part of the ingredients, as approved by the appropriate authority of the target market.</p> <p>WITHOUT_ADDED_SWEETENER The item is physically marked that no sweetener has been added when manufacturing the product as approved by the appropriate authority of the target market</p>
MAL 0580	0..n	Package Marks With Diet Allergen Code	The code (s) marked on the package indicating dietary or allergen information.	<p>GS1</p> <p>Can apply to cosmetics, food, clothes and more code list:</p> <p>APPROVED_BY_ASTHMA_AND_ALLERGY_ASSOC Definitions made by the asthma and allergist association.</p> <p>APPROVED_FOR_TUBE_FEEDING The item is physically marked that it is approved for tube feeding by the appropriate authority of the target market.</p> <p>CONTAINS_LATEX The item is physically marked as containing Latex (rubber).</p> <p>CONTAINS_PVC The item is physically marked as containing PVC (Polyvinyl chloride). Phthalate content is unspecified.</p> <p>CONTAINS_PVC_WITH_PHTHALATES The item is physically marked as containing PVC (Polyvinyl chloride) with phthalates.</p> <p>CONTAINS_PVC_WITHOUT_PHTHALATES The item is physically marked as containing PVC (Polyvinyl chloride) without phthalates.</p> <p>DIET_PRODUCT_450_800_KCAL_P</p>

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
				<p>ER_DAY The item is physically marked that it is approved for a 450-800 kilocalorie/day diet by the appropriate authority of the target market.</p> <p>DIET_PRODUCT_800_1200_KCAL_PER_DAY The item is physically marked that it is approved for a 800-1200 kilocalorie/day diet by the appropriate authority of the target market.</p> <p>LACTASE_ENZYME The item is physically marked that it is approved as lactase enzyme by the appropriate authority of the target market.</p> <p>LOW_ON_PHENYLALANINE The item is physically marked as containing a low level of phenylalanine as approved by the appropriate authority of the target market.</p> <p>LOW_ON_SUGAR The item is physically marked as containing a low level of sugar as approved by the appropriate authority of the target market.</p> <p>MOTHERS_MILK_SUBSTITUTE The item is physically marked that it is approved as substitute mother's milk the appropriate authority of the target market.</p> <p>NUTRITION_SUPPLEMENT The item is physically marked that it is approved as nutrition supplement by the appropriate authority of the target market.</p> <p>NYCKELHAL_MARK Lean product.</p>
MAL 0581	0..n	Package Marked With Ethical Code	Code of which ethical trading marks that are on the package.	<p>GS1 code list:</p> <p>FAIR_TRADE_MARK Definition that child labor is not used in the supply chain, and other definitions considered as ethical by proper authorities.</p>
MAL 0582	0..n	Package Marked With Environment Code	Code of which environmental marks that are on trade item package.	<p>GS1 code list:</p> <p>EU_ECO_LABEL The item is physically marked with the European Union Eco label a European environmental initiative supported by the European Commission.</p> <p>FALKEN N/A</p> <p>FOREST_STEWARDSHIP_COUNCIL_LABEL The item is physically</p>

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
				<p>marked with the Forest Stewardship Council label.</p> <p>GMO_MARKED The item is physically marked as of genetically modified origin.</p> <p>GREEN_DOT N/A</p> <p>KRAV_MARK N/A</p> <p>MARINE_STEWARDSHIP_COUNCIL_LABEL The item is physically marked with the Marine Stewardship Council label.</p> <p>RAINFOREST_ALLIANCE The item is physically marked with the Rainforest Alliance Certified symbol.</p> <p>SVANEN N/A</p> <p>SWEDISH_SEAL_OF_QUALITY The item is physically marked with the Swedish Seal of Quality label which intends to guarantee the responsibility for the environment of the product.</p>

8.4.24. Logistic Unit Information (Product)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
LUI				
LUI 0590	0..1	Logistic unit package type code	The code specifying the package type of the logistic unit.	GS1 Codes: UN/ECE recommendation 21
LUI 0591	0..1	Quantity of product per logistic unit	The quantity of product contained in the logistic unit	GS1
LUI 0592	0..1	Quantity Of Layers of the logistic unit	The quantity of layers for the logistic unit	GS1
LUI 0593	0..1	Quantity Of Product Per Layer of the logistic unit	The quantity of products contained on a single layer of the logistic unit.	GS1

8.4.25. Package Information (Product)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PGI				
PGI 0600	0..1	Package type code	The code identifying the type of package	GS1 Code list: UN/ECE recommendation 21

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PGI 0601	0..1	Indicator Returnable package/asset	The package of the product is returnable. This is a yes/no (Boolean) where yes equals package can be returned. Attribute applies to returnable package with or without deposit.	GS1 Boolean true/false (true = package is returnable)
PGI 0602	0..1	Returnable package/asset Deposit value start date	The first date that the deposit value of the returnable package/asset is valid.	GS1
PGI 0603	0..1	Returnable package/asset Deposit value end date	The last date that the deposit value of the returnable package/asset is valid.	
PGI 0604	0..1	Returnable package/asset deposit amount	The monetary amount of the deposit for the individual returnable asset	
PGI 0605	0..1	Returnable package/asset deposit code	The code specifying the returnable package/asset deposit..	GS1
PGI 0606	0..1	Number of items per width	The number of items that are packaged beside each other in the package in the width direction (e.g. on the shelf side facing the consumer).	GS1
PGI 0607	0..1	Quantity Of products (Trade Items) Contained In A Complete Layer	Number of packages in one layer in the product (trade item). Required if the product (trade item) is a pallet.	GS1
PGI 0608	0..*	Returnable package/asset terms and conditions	The coded or textual description of the returnable package/asset terms and conditions, e.g. rented, exchangeable, returnable asset against deposit).	GS1
PGI 0609	0..n	Marks and labels	The marks and labels provided on the package	GS1
PGI 0610	0..1	Packaging information	Information about the packaging for the package.	

8.4.26. Packaging Information (Package information)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PKI				
PKI 0611	0..*	Recyclable scheme (s) for the packaging, text	The textual description of the scheme(s) under which the packaging is recyclable.	GS1

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PKI 0612	0..n	Recyclable type	The code specifying the recyclable type for the packaging marked on the product.	
PKI 0613	0..n	Packaging material	Information about the material composition of the packaging	GS1

8.4.27. Packaging Material (Packaging information)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PKM				
PKM 0620	1..1	Packaging Material code	The code detailing the package material for the packaging.	GS1 Code list: Coloured glass Plain glass Aluminium Thermoplastics Polymers Paper or cartoonboard Corrugated board Metal Wood
PKM 0621	0..1	Packaging Material Code List Maintenance Agency Text	A code identifying the agency that is maintaining packaging material codes.	GS1 The agency or agencies controlling the packaging code lists (for each country). Code list not available yet.
PKM 0622	0..1	Packaging Material percentage	A percentage of the specified material in the packaging.	GS1
PKM 0623	0..1	Packaging Material Weight	A weight of the specified material in the packaging	GS1
PKM 0624	0..*	Packaging Material description	The textual description of the packaging material.	GS1
PKM 0625	0..n	Property	A technical property of the material from which the packaging is composed.	

8.4.28. Product Material (Product)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PML				
PML 0630	1..1	Product Material code	The code detailing the material within the product.	GS1

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PML 0631	0..1	Product Material Agency Code	A code identifying the agency that is maintaining product material codes.	GS1
PML 0632	0..1	Product Material percentage	A percentage of the material in the product.	GS1
PML 0633	0..n	Product Material Quantity	A measured quantity of material in the product	GS1
PML 0634	0..*	Product Material description	The textual description of the product material.	GS1
PML 0635	0..n	Property	A technical property of the material from which the product is composed.	

8.4.29. Product Unit (Product)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PRU				
PRU 0650	0..1	Product Unit Individual Identification	An identity for the product unit (individual item)	UBL Example of Use case: could be a SGTIN (GS1 Serialised GTIN) which also can be contained in a EPC RFID
PRU 0651	0..1	Manufacture DateTime	The date (and time) of manufacture of the Item Instance e.g manufacture date for a used car (second hand).	UBL
PRU 0653	0..1	Registration Identification	The registration identifier of the Item Instance.	UBL
PRU 0654	0..1	Product Instance Serial Number	The serial number of the product instance.	UBL
PRU 0655	0..1	Production Batch Identification	An identification of the production batch of the product.	UBL Example of use case: Facilitate selective recalls of a product if necessary.

8.4.30. Product Class (Product)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PCL				
PCL 0671	0..1	International Codification Designation, ICD	The ISO-specified data element used to uniquely identify a registration scheme. (ISO/IEC 6523-1)	ISO/IEC 6523-1 - Identification of organization identification schemes Code list for ICD from ISO maintained by UK BSI, British Standard Institute

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PCL 0672	0..1	Organisation Identification, OI	The identifier assigned to an organization within a registration scheme, and unique within that scheme.	
PCL 0673	0..1	Organisation Particular Department Identification, OPI	The identifier allocated to a particular department, service or other entity within an organization	
PCL 0674	0..1	Source of Organisation Particular Identification, OPIS	The data element used to specify the source for the organization part identifier.(ISO/IEC 6523-1)	
PCL 0675	0..1	Number of ISO standard Reference	For referencing standards, here the standard number will be given (e.g. 61360 for the IEC 61360)	
PCL 0676	0..1	ISO standard Part Reference	For referencing standards, here the part of the standard will be given (e.g. 2 for the Part 2 of IEC 61360)	
PCL 0677	0..1	ISO standard Edition Reference	Edition of the standard	
PCL 0678	1	Class Code	Gives the identification of the class in the context of the classification / ontology	
PCL 0679	0..1	Class Version Reference	A reference to the version of the class	
PCL 0688	0..n	Property	Used for further specification of product class for the product i.e. GS1 GPC	

8.4.31. Property (Packaging Material, Product, Product Material and Product Class)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PTY				
PTY 0700	0..1	International Codification Designation, ICD	The ISO-specified data element used to uniquely identify a registration scheme. (ISO/IEC 6523-1)	
PTY 0701	0..1	Organisation Identification, OI	The identifier assigned to an organization within a registration scheme, and unique within that scheme.	
PTY 0702	0..1	Organisation Particular Department Identification, OPI	The identifier allocated to a particular department, service or other entity within an organization	

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PTY 0703	0..1	Source of Organisation Particular Identification, OPIS	The data element used to specify the source for the organization part identifier.(ISO/IEC 6523-1)	
PTY 0704	0..1	Number of ISO standard, Reference	For referencing standards, here the standard number will be given (e.g. 61360 for the IEC 61360)	
PTY 0705	0..1	ISO standard Part Reference	For referencing standards, here the part of the standard will be given (e.g. 2 for the Part 2 of IEC 61360)	
PTY 0706	0..1	ISO standard Edition Reference	Edition of the ISO standard	
PTY 0707	0..1	Property Code	Coded representation of the property	
PTY 0721	0..1	Further Categorization Indicator	The indicator indicating that the product is further categorized.	Indicator: True – Further categorization For further categorisation of product classifications. Rational is to specialise further attributes according to a specific classification system i.e. GS1 Global Product Classification system. Restrictions: Only to be used in relation to Product Class.
PTY 0708	0..1	Version of class	The version of the class	
PTY 0709	1..1	Technical property Type, code	The code specifying the type of technical property	
PTY 0710	0..1	Technical property Type, Text	The textual description of the type of property.	
PTY 0711	0..*	Property Value Text	The value of the property expressed as a textual description.	
PTY 0712	0..n	Property Value Code	The value of the property expressed as a code	
PTY 0713	0..n	Property Value Indicator	The value of the property expressed as an indicator.	
PTY 0714	0..n	Property Value Date Time	The value of the property expressed as a date time.	
PTY 0715	0..n	Property Value Binary	The value of the property expressed in a binary format.	
PTY 0716	0..*	Property Relation Information Text	A textual description of or other information on property relations.	

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PTY 0717	0..n	Property definition Reference	The reference to a document, e.g. an ontology or standard, in which the property has been defined	
PTY 0718	0..1	Product Class	The product class that forms the context in which the property is defined.	
PTY 0719	0..*	Property Relation	Related property. E.g. a Voltage at a certain Temperature.	
PTY 0720	0..n	Property Value Quantity	The value of the property expressed as a quantity (measurement) (including unit of measure, UN/ECE rec 20)	

8.4.32. Product Specification Information Reference (Product)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
PIR				
PIR 0730	1..1	Product Specification Document Reference	An associative reference to a document providing product specification information	UBL – Item Specification Document Reference in Item Qualified association to Document Reference Consider to be used for referring to ontologies
PIR 0731	1..1	Code for format for document providing product specification information		Code list: - excel - Pdf - ontoML

8.4.33. Trade Item Delivery Lead Time (Trade Agreement)

UID	Crd	Short Name	Business Requirement	Rationale / Example / Mapping Notes
DLT				
DLT 0740	1..1	Lead time	The time taken from the time of order to the time of delivery	GS1 Can be dependent on quantity or location or both.
DLT 0741	0..1	Minimum Order quantity	Minimum order quantity for a specific lead time	GS1
DLT 0742	0..1	Maximum Order quantity	Maximum order quantity for a specific lead time	GS1

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
DLT 0743	0..1	Delivery Location	delivery locations or areas for items	
DLT 0744	0..1	Delivery Region	delivery regions for items	

8.4.34. Signature (All documents)

UID	Crđ	Short Name	Business Requirement	Rationale / Example / Mapping Notes
SIG				
SIG 0770	1..1	Signature Identification	The identifier for the signature	NES UBL
SIG 0771	0..*	Notification, text	A notification about the signature or the circumstances where the signature has been used in clear text	NES UBL
SIG 0772	0..1	Validation Date	Specifies the date when the signature was approved	NES UBL
SIG 0773	0..1	Validation Time	Specifies the time when the signature was approved	NES UBL
SIG 0774	0..1	Validator Identifier	Identifies the organization, person, service or server that has validated the signature	NES UBL
SIG 0775	0..1	Canonicalization Method, code	The mathematical logic method used by the Signature	NES UBL
SIG 0776	0..1	Signature Method, code	The method of signature	NES UBL
SIG 0777	1..1	Signatory Party	An association to the signing Party.	NES UBL
SIG 0778	0..1	Digital Signature Attachment	Refers to the actual encoded signature (e.g., in XMLDSIG format).	NES UBL
SIG 0779	0..1	Document Reference	A reference to the actual document that the signature applies to. For evidentiary purposes, this may be the document image that the signatory party saw when applying their signature	NES UBL

9. Business Rules

Not used

10. Use case examples

Use case 1

Price information exemplifying use of bracket price, location and price comparison

Price Information may be given 0..n times per each product.

Product Id (GTIN)		07365560013130					
			Price Information 1		Price Information 2		Price Information 3
Price amount		0..1	245		220		198
Price type		0..1	Contract price, net price		Contract price, net price		Contract price, net price
Minimum-Bracket Price Quantity Range	Maximum-Bracket Price Quantity Range	0..1	1	10	11	20	21 30
Price Validity Location		0..n	7300000000000		7300000000000		7300000000000
			4300000000000		4300000000000		4300000000000
			4500000000000		4500000000000		4500000000000
			5000000000000		5000000000000		5000000000000
Price Comparison		0..1					
		Comparison Price Amount	24.50		22		19.80
	Price Comparison Quantity	Unit of measurement	10	LTR	10	LTR	10 LTR
		Price Comparison Type Code	READY_TO_DRINK		READY_TO_DRINK		READY_TO_DRINK

11. Definition of Terms

Term	Definition	Source