



UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

UNITED NATIONS CENTRE FOR TRADE FACILITATION
AND ELECTRONIC BUSINESS (UN/CEFACT)

**Textile And Leather Reference Data Model
for Traceability and Transparency**

BUSINESS REQUIREMENT SPECIFICATION

(TL RDM-BRS)

Approved: UN/CEFACT Bureau _____

Internal Review

TABLE OF CONTENTS

1	INTRODUCTION	4
2	OBJECTIVE	5
3	AUDIENCE	5
4	REFERENCE DOCUMENTS	6
4.1	STATUS OF THIS DOCUMENT	6
4.2	DOCUMENT CONTEXT.....	6
4.3	REVISION HISTORY	7
5	BUSINESS REQUIREMENTS VIEW	8
5.1	BUSINESS DOMAIN VIEW	8
5.1	GENERIC TRACEABILITY USE CASE.....	8
5.2	BUSINESS PARTNER VIEW	9
5.3	BUSINESS REQUIREMENT LIST	10
5.4	BUSINESS ENTITY VIEW	12
5.5	LAYERS OF COMPLEXITY	13
5.6	GENERIC VERSUS VERTICAL APPROACH.....	13
5.7	SUSTAINABILITY INFORMATION	14
5.7.1	<i>Sustainability Information Entities</i>	14
5.7.2	<i>Sustainability Matrix</i>	15
5.7.3	<i>Structuring sustainability data</i>	15
5.7.4	<i>Characteristics, Parameters and Tolerances</i>	17
5.8	TRACEABILITY	18
5.9	TRACEABLE ASSETS	18
5.10	UNIQUE IDENTIFIERS (ISO/IEC 15459)	19
5.11	CODE LISTS	20
5.12	PRODUCT SEGREGATION.....	20
5.13	MASS BALANCE	21
5.14	BOOK AND CLAIM	22
5.15	VISIBILITY	22
5.15.1	<i>Sharing Data</i>	23
5.15.1.1	Traditional Electronic Data Exchange (EDI).....	23
5.15.1.2	Electronic Product Code Information System (EPCIS).....	23
5.15.1.3	Blockchain (DLT)	24
5.15.1.4	Application Programming Interface (API)	25
6	BUSINESS CHOREOGRAPHY VIEW	26
7	RDM BUSINESS INFORMATION VIEW	27
7.1	RDM CANONICAL DATA MODELS	27
7.1.1	<i>Facility Canonical Data Model</i>	27
7.1.2	<i>Location Canonical Data Model</i>	28
7.1.3	<i>Party Canonical Data Model</i>	29
7.1.4	<i>Process Canonical Data Model</i>	30
7.1.5	<i>Product Canonical Data Model</i>	31
7.1.6	<i>Product Batch Canonical Data Model</i>	32
7.1.7	<i>Transport Canonical Data Model</i>	33
7.1.7.1	Transport Movement.....	33
7.1.7.2	Trade Delivery.....	34
7.2	SUSTAINABILITY INSPECTION CANONICAL DATA MODEL.....	35
7.3	ELECTRONIC PRODUCT CODE INFORMATION SYSTEM (EPCIS) DATA MODEL.....	36
7.4	TL RDM BUSINESS INFORMATION MASTER	38
7.5	TL RDM BUSINESS INFORMATION ENTITIES (OVERVIEW).....	39
8	DEFINITION OF TERMS	42
9	ANNEX I. RDM BUSINESS INFORMATION ENTITIES	43
10	ANNEX II. CODE LISTS	120
10.1	PROCESS RELATED CODE LISTS	120
10.2	PRODUCT RELATED CODE LISTS	120
10.3	PRODUCT BATCH RELATED CODE LISTS	122
10.4	LOCATION RELATED CODE LISTS	122

10.5	PARTY RELATED CODE LISTS	122
10.6	TRANSPORT RELATED CODE LISTS	122
10.7	CURRENCY RELATED	122
10.8	DATE RELATED	123
10.9	DATA RELATED	123
10.10	PAYMENT RELATED	123
10.11	PRICE RELATED	123
10.12	QUANTITY RELATED	123
10.13	MEASUREMENT RELATED	123
10.14	STATUS RELATED	123
10.15	TAX RELATED	123
10.16	DOCUMENT RELATED	123
10.17	IDENTIFICATION RELATED	124
FIGURE 1-1	RELEVANT DATA DOMAINS AND ASPECTS	4
FIGURE 1-2	CONCEPT OF THE TEXTILE AND LEATHER REFERENCE DATA MODEL	5
FIGURE 4-1	DOCUMENT CONTEXT	7
FIGURE 5-1	BUSINESS PARTNERS TEXTILE AND LEATHER SECTOR	9
FIGURE 5-2	KEY TRACEABILITY INFORMATION ENTITIES CANONICAL MODEL	12
FIGURE 5-3	EXAMPLE GENERIC VERSUS VERTICAL APPROACH	14
FIGURE 5-4	SUSTAINABLE TRADE AND RELATED DATA	15
FIGURE 5-5	STRUCTURED SUSTAINABILITY DATA	16
FIGURE 5-6	ENTITIES HAVING SUSTAINABILITY INFORMATION	17
FIGURE 5-7	CHARACTERISTICS, PARAMETERS, TOLERANCES	17
FIGURE 5-8	TRACEABILITY ACROSS ORGANIZATION IN THE VALUE CHAIN	18
FIGURE 5-9	TRACEABLE ASSETS (MATERIALS, PRODUCTS, BATCHES)	19
FIGURE 5-10	EXAMPLES OF LOGISTIC UNITS	19
FIGURE 5-11	REASONS FOR UNIQUE IDENTIFIERS	20
FIGURE 5-12	SEGREGATION OF PRODUCTS AND RAW MATERIALS	21
FIGURE 5-13	MASS BALANCE	22
FIGURE 5-14	BOOK AND CLAIM	22
FIGURE 5-15	EVENT RECORDING	23
FIGURE 5-16	EPCIS FOR TRACEABILITY, VISIBILITY AND SHARING	24
FIGURE 7-1	DIAGRAM LEGENDA	27
FIGURE 17-1	UN/CEFACT TRACEABILITY EVENT DATA MODEL	37
TABLE 5-1	BUSINESS PARTNERS TEXTILE AND LEATHER SECTOR	10
TABLE 5-2	BUSINESS REQUIREMENT LIST REFERENCE DATA MODEL	11
TABLE 5-3	EXAMPLE SUSTAINABLE MATRIX	15
TABLE 5-6	EXAMPLE OF A TECHNICAL CHARACTERISTIC	18

1 Introduction

The UN/CEFACT Sustainable Textile and Leather Traceability and Transparency Project has developed recommendation, guidelines and electronic business standards on transparency and traceability for sustainable value chains in the Textile & Leather sector in support of more responsible production and consumption patterns, in line with relevant SDGs of Agenda 2030.

The UN/CEFACT Textile & Leather Reference Data Model (TL RDM) supports business processes to improve traceability and sustainability in the Textile and Leather sector. All necessary traceability and sustainability information entities have been related to the key entities of the traceability framework. Through this, the sector is able to specify their own specific information exchange requirements whilst complying with the overall process and data structures. The data model can be applied by countries, regions or industries and can be integrated into software solutions of traders, agents, banks, customs and other governmental authorities etc.

This global traceability framework will give specific attention to tackling negative health, social and environmental impacts of Textile and Leather related operations. This Textile and Leather Reference Data Model reuses parts existing UN/CEFACT electronic standards on Animal Traceability, Plant Traceability and their biproducts as well as for eCrop. These data exchange standards form a useful basis for use within the Textile and Leather sector but require slight adjustments in order to fully meet their specific requirements, and to capture sustainability performance. The project will, therefore, create a specific BRS (Business Requirements Specification) and specific Core Component Business Document Assemblies (CCBDA XML messages) in addition to this document.



Figure 1-1 Relevant Data Domains and Aspects

The Textile and Leather Reference Data Model (TL RDM) is a data model based on another reference data model, named the BUY-SHIP-PAY Reference Data Model. Ultimately, every reference data model has its origin, directly or indirectly, in the UN/CEFACT Core Component Library (UN/CCL). Every reference data model forms the basis for constructing Business Data Exchange Structure(s), following the UN/CEFACT Core Components Business Document Assembly Technical Specification (CCBDA) methodology.

This document, the Textile and Leather Reference Data Model Business Requirements Specification provides a high-level view of the business requirements in order to supported business and regulatory processes, involved business areas, actors and key business information entities.

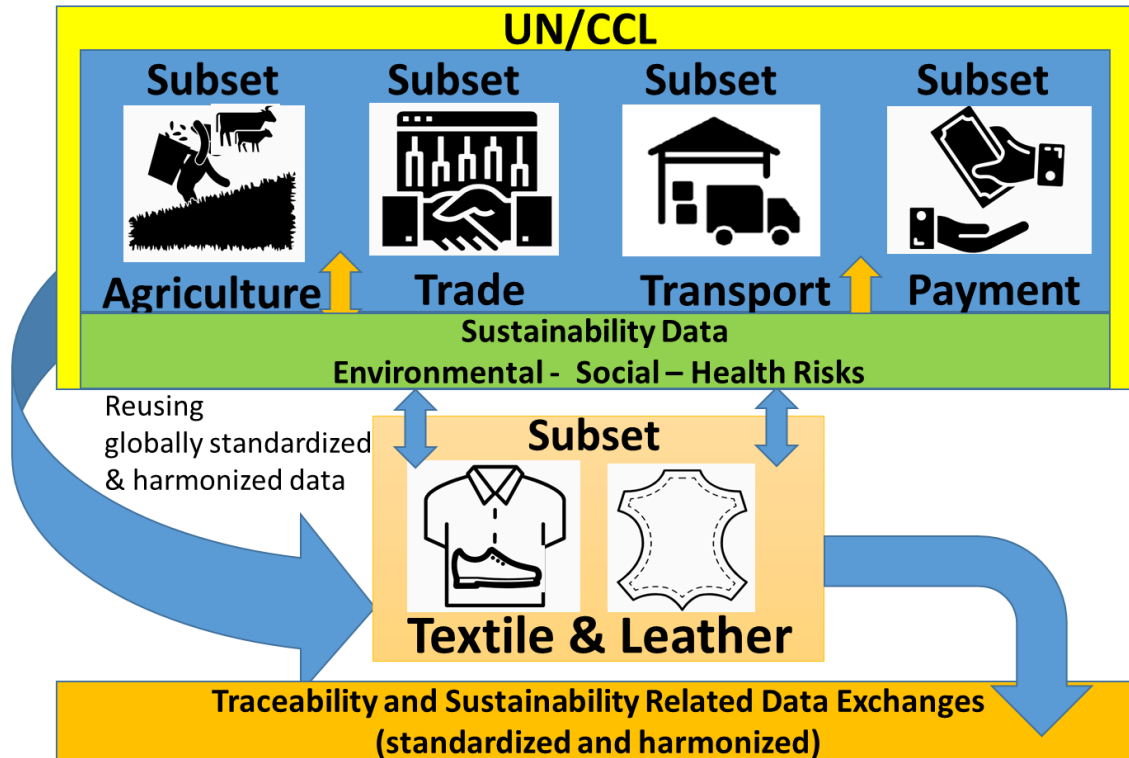


Figure 1-2 Concept of the Textile and Leather Reference Data Model

The UN/CEFACT generic approach and design of information entities (or data components) make them reusable and interoperable. Harmonization is one of the pillars of the UN/CEFACT standards. With harmonization often comes simplicity, by this refraining from the creation of different information entities having the same semantic meaning.

2 Objective

The objective of this document is to standardize the business information entities supporting the business processes, and eventually the business transactions providing traceability and transparency in textile and leather value chains in accordance with the regulations. Therefore, this document takes the generic traceability use case as the high-level process description. On the basis of this additional business requirements specification (BRS) documents will be created. These BRSs describe the way partners intend to play their respective role, establish business relationship and share responsibilities to interact efficiently with the support of their respective information system. However, this document contains a detailed description of the business information entities of what will be the basis for all traceability and sustainability related messages to be exchanged within the sector. The business information entities are listed in this document using their short name. Their technical names are listed within the UN/CCL.

3 Audience

The audience of this document is all users who are interested in the information model supporting the traceability and sustainability goals of the textile and leather value chains.

4 Reference Documents

Knowledge and application of the following documents is crucial for the development of information entities specified in this document.

- UNECE Explanatory Note for the Business Process Analysis Activity and the Generic Traceability Model. Dated 2020.
- UNECE Policy Paper “Accelerating action for a sustainable and circular garment and footwear industry: which role for transparency and traceability of value chains? Dated 2020.
- UNECE TEXTILE4SDG12 “Transparency in textile value chains in relation to the environmental, social and human health impacts of parts, components and production processes”. Dated 2017.
- UNECE “Traceability for Sustainable Trade, a Framework to design Traceability Systems for Cross Border Trade”. Dated 2016
- EU E-Biz 4.0: the new step of the E-Biz initiative (version 2018-1).
- ISO 19987 (EPCIS)
- UN/CEFACT White Paper - Reference Data Model (RDM) (Draft, v1.0.0.2).
- UN/CEFACT Reference Data Model (RDM) Guideline (Draft, v1.0.0.2).
- UN/CEFACT Core Component Library 21A.
- UN/CEFACT Techniques and Methodologies Group (TMG) UN/CEFACT's Modelling Methodology (UMM): UMM Meta Model Foundation Module 2009-01-30.
- UN/CEFACT – Core Component Technical Specification Technical Corrigendum Version 2.01 (Corr. 1) dated 12 February 2007 (CCTS 2.01 Corr.1).
- UN/CEFACT Core Components Business Document Assembly Technical Specification (CCBDA) version 1.0 27 June 2012.
- UNECE Glossary for the Textile and Leather sector. Dated 2020.
- UN/CEFACT BRS Traceability EPCIS. Dated 2020 (in development)
- UN/CEFACT BRS Textile and Leather Sustainability. Dated 2020 (in development)

4.1 Status of this document

This document has been developed in accordance with the UN/CEFACT/TRADE/22 Open Development Process for Guidelines and approved for publication by the UN/CEFACT Bureau.

4.2 Document context

This high-level document (bleu box) describes the business requirements for the Textile and Leather Reference Data Model (TL RDM). From this document, new business requirement specifications will be derived serving a particular requirement, such as the exchange of information regarding traceability or sustainability. On the base of a BRS, the CCBDA structures (message models) are build. These message data models are build using a so-called uniform structure, the master.

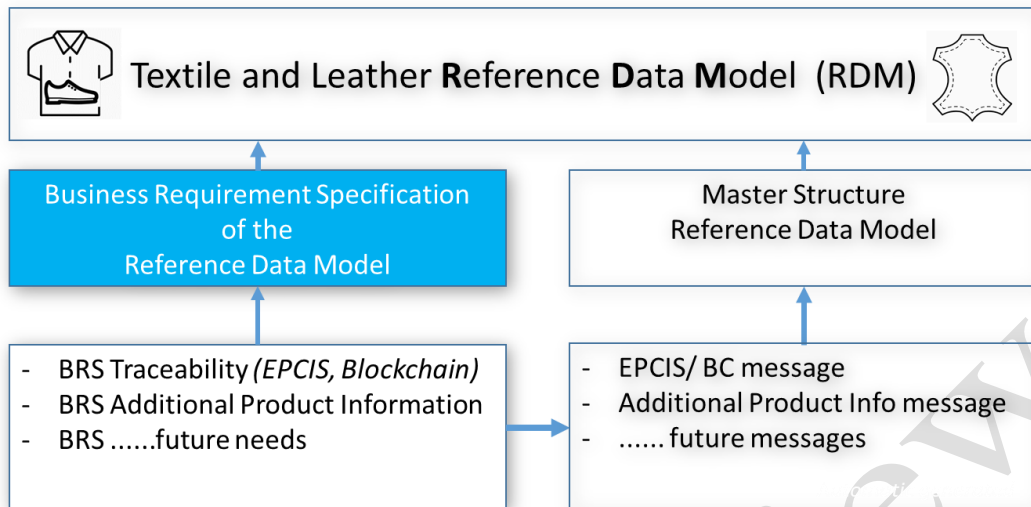


Figure 4-1 Document Context

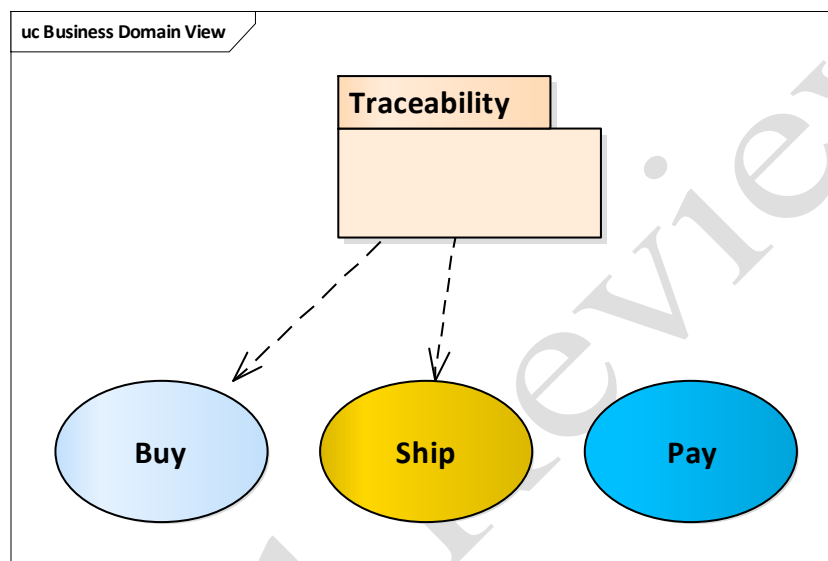
4.3 Revision history

Version	Release	Date	Comment
0.1	Internal draft	2020-September-03	Initial
0.2	Update	2020-September-23	Internal Review Workshop Sept. 2020

5 Business Requirements View

5.1 Business Domain View

This section describes the extent and limits of the *high-level* business processes within the Textile and Leather Supply Chain being described in this document. The specific processes and use cases including the exchange of message and content will be described in separate business requirement documents (BRs). This document focusses on the data requirements in relation to the high-level processes. Within the specific BRs, a small part of the Textile and Leather Reference Data Model will be used.

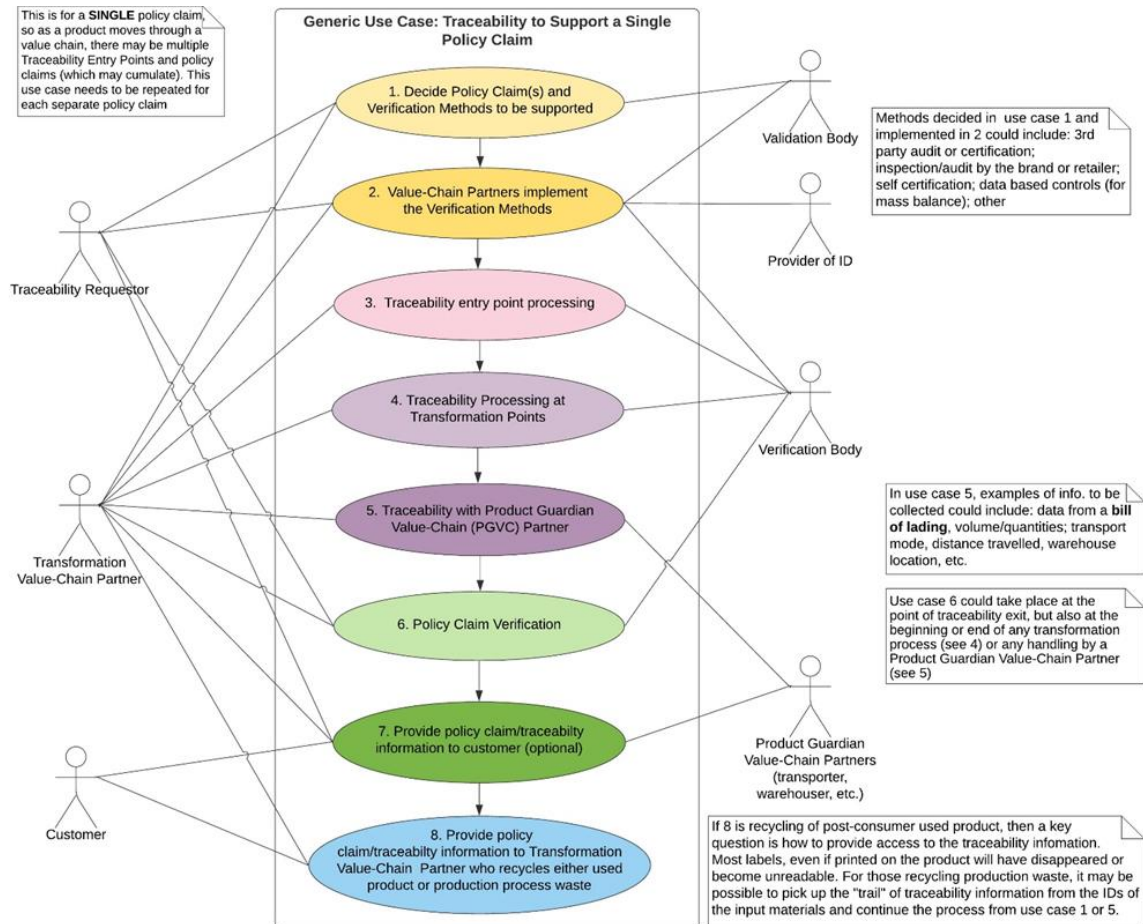


Categories	Description and Values
Business Process	Asset Traceability
Product Classification	Raw Materials, Products, Product Batches
Industry Classification	Textile and Leather sector.
Geopolitical	Global
Official Constraint	European Regulations National regulation Local applicable regulation
Business Process Role	Traceability Requestor, Transformation Value Chain Partner, Product Gradient Value Chain Partner, Validator, Verifier, Solution Provider, Customer
Supporting Role	Seller, Buyer, Inspector, Manufacturer, Subcontractor, Transport Service Provider, Transport Services Buyer, Transport Services Seller, Exporter, Importer, Carrier, Freight Forwarder, Customs Import Agent, Customs Transit Agent, Customs Export Agent.
System Capabilities	Agreed level of security to protect data integrity Network of connected T&T databases System of authorizations and keys for retrieving T&T information by T&T requesting parties

5.1 Generic Traceability Use Case

The purpose of the generic traceability use case diagram is to illustrate the principle processes for establishing traceability which are applicable across different products – i.e. the model should be good for cotton, wool, viscose, leather, etc. The use case diagram is presented below at a high-level. In addition to identifying the principle processes, a separated document provides, more detailed information for each generic process. As currently drawn, there are seven kinds of generic value-chain

partner roles (some of which may be fulfilled by the same organization). It is the responsibility of the transformation value chain partners to ensure that output products have IDs which can be linked to input products. The same applies in case products are aggregated or disaggregated for logistics purposes. The link between the output product, input products and the logistics unit should be recorded.



5.2 Business Partner View

The below diagram shows the business partners within the textile and leather value chain in a grouped manner.

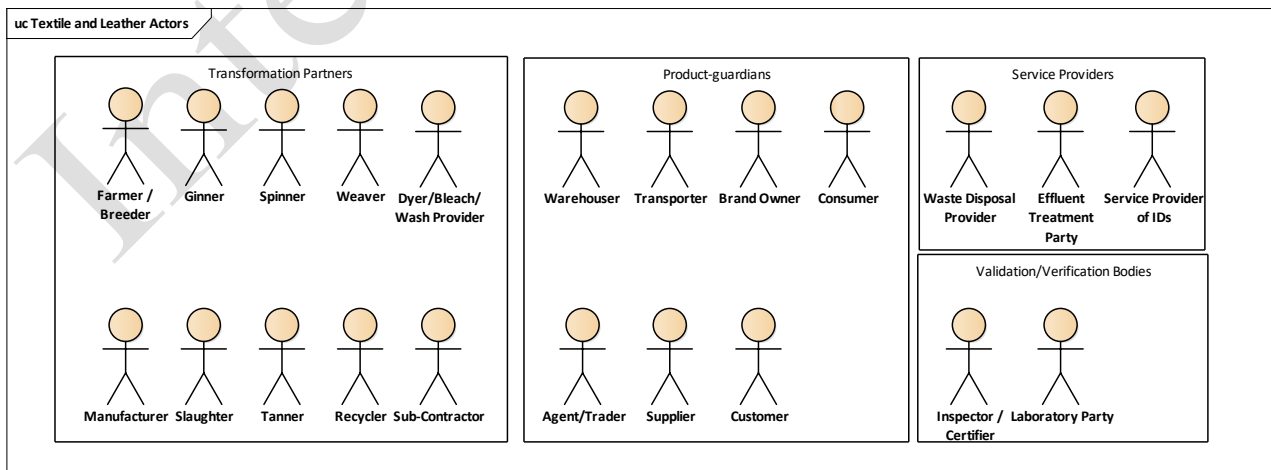


Figure 5-1 Business Partners Textile and Leather sector

Table 5-1 Business Partners Textile and Leather sector

Nr.	Partner	Description
1	Agent / Trader	An agent or trader is a person who has been legally empowered to act on behalf of another person or an entity.
2	Brand Owner	A person or company who sells any commodity under a registered brand label.
3	Consumer	A person who purchases goods and services for personal use.
4	Customer	A person or company who buys goods or services from another company.
5	Dye/Bleach, Wash provider	A person or company whose trade is the dyeing, bleaching or washing of cloth or other material.
6	Effluent Treatment Party	An individual, group, or body having a role in effluent treatment, meaning cleaning industrial effluents, contaminated water from rivers and lakes, and so on in order to reuse the water for additional purposes. Along such lines, water is reutilized and sustained.
7	Farmer	A person or company engaged in agriculture business, field crop growing, cattle rearing for the meat or others productions (hides, milk, egg, wool, etc), breeders, raisers, finishers etc.
8	Ginner	A person or company who operates a cotton gin machine which separates the seeds and hulls from the cotton fibre.
9	Inspector / certifier	A person or company who inspects something, such as a product, process, organization, to ensure that it complies to requirements or regulations.
10	Laboratory Party	An individual, group, or body having a role in laboratory observations.
11	Manufacturer	A person or company which makes finished products from raw materials or intermediary products in order to make a profit.
12	Recycler	A person or company who recycles, or uses machines to recycle.
13	Retailer	A person or company that sells goods to the public in relatively small quantities for use or consumption rather than for resale.
14	Slaughter	A person or company (slaughterhouse) who slaughters animals, most often to provide food for humans, but also for the skins (hides).
15	Spinner	A person or company occupied in making thread by spinning.
16	Sub-contractor	A subcontractor is an individual or company that signs a contract to perform part or all of the obligations of another's contract.
17	Supplier	A person or company that provides something needed such as feed, equipment, materials, intermediary and finished products, chemicals or a service etc.
18	Tanner	A tanner processes skins of animals. Tanning hide into leather involves a process which permanently alters the protein structure of skin, making it more durable and less susceptible to decomposition, and also possibly colouring it.
19	Transporter	A person or company involved throughout the value chain for the transportation of animals, products etc. Transportation also involves the delivery of materials such as chemicals and other supplies.
20	Warehouser	A person or company who stores goods that will be sold or distributed later.
21	Waste Disposal Provider	An individual, group, or body having a role in waste disposal; the collection, processing, and recycling or deposition of the waste materials of human society.
22	Weaver	A person or company who weaves fabric.

5.3 Business Requirement List

The business requirements list below includes traceability, sustainability and other requirements. These business requirements apply to the Textile and Leather Referenced Data Model for the purpose of deriving data exchanges structures (messages) from the data model. The business requirements of the data exchange structures will be specified within separate documents.

Table 5-2 Business Requirement List Reference Data Model

Nr.	Subject	Business Requirement Statement
A.1	Flexible and inclusive	Different layers of complexity should allow small- and medium-sized enterprises around the globe to use the Textile and Leather Reference Data Model. Much of the data elements and associative information should be optional to allow “upscaling” to support the growth of a company or to adhere to stricter set of rules.
A.2	Traceability	Tracing the movement of an asset forward and backward through specified stages of the extended supply chain. Traceability for the Textile and Leather sector is more, it is a method to substantiate a claim or statement relating to a product, service or business process based on available information. Tracing must support Chain of Custody models. It should provide the answers on where the assets are in time and why, and especially across organizations.
A.3	Visibility	Know in an instant which companies, products and processes the whole supply chain comprises, how they relate to each other and how they perform, especially on sustainability.
A.4	Shareability	Visibility and transparency are obtained through shareability of data, although each partner must be able to decide whether or not to share possibly sensitive data, such as sustainability inspection results.
A.5	Transparency	Data regarding sustainability characteristics, sustainability performances should be exchangeable or shareable.
A.6	Animal welfare	Information about the animal in order to be sure that no endangered species are involved in the production of garments and leather and treatment of animals.
A.7	Verification of claims	A sustainability related claim (assertion, statement) is linked to a relevant standard, which can be different for countries. A standard may be part of a compliance policy. The standard refers to metrics (goals or performances) which can have parameters and tolerances.
A.8	Inventory lists	Exchange of Chemical Inventory List (CIL stock levels/ZDHC) in order to proof chemical management performance. Exchange of other materials, hides, fabrics, garments stock levels in order to optimize production and minimize waste.
A.9	Unique identifiers	The use of globally unique identifiers is vital in order to make traceable assets easy findable and to avoid ambiguity, inconsistency and mismatches (unique identifiers are vital for production facilities, production units, products, product batches, serialized products, locations, parties, logistic units, shipments, consignments and consignment items).
A.10	Process Certificates	A process certificate can be specified for a production unit, transport movement, production facility, chemical treatment, crop protection treatment, finishing treatment, sustainability characteristic, party, material waste recovery disposal process, transport waste recovery disposal process and specified as obtained due to an inspection.
A.11	Product Certificates	A product certificate can be specified for a product, material, chemical, production unit, production facility, sustainability characteristic, toxicological hazardous material, party, transport waste material and transport waste material component and specified as obtained due to an inspection.
A.12	Organization Certificates	An organization certificate can be specified for a production unit, a production facility, a production process, a sustainability characteristic, a party, a transport movement and specified as obtained due to an inspection.
A.13	Inspection events	Inspections can be executed for a party (e.g. manufacturer), a location (e.g. warehouse, crop plot), a production facility, production process, a product, a product batch or a transport movement. Inspections can be targeted on sustainability characteristics (aspects).
A.14	Inspection results	Inspection results can be indicated as characteristics, along with standards, methods, instructions, notes and/or attachments. The inspection results may include laboratory results as well. These results may include corrective and preventive actions and may lead to obtaining certificates and claims (assertions).
A.15	Product Segregation Mass Balance Book & Claim	Product segregation means an aggregated flow of products that was produced according to the same sustainability standard kept strictly separated from other products. Where product segregation is difficult or nearly impossible to achieve (e.g. for certified and non-certified commodities such as cotton, green electricity) other methods can be used. In these instances, Mass Balance or Book and Claim systems can be used.
A.16	Consumption information	Keeping record of inputs/outputs in order to compare predefined and actual consumption of material, product or product batches.
A.17	Recycling	Recycling aspects of products and packaging should be possible to exchange, including whether or not products should be regarded as waste or recyclable items. The process for material waste recovery and the presence of recycled material can be specified in percentage or weights.

Nr.	Subject	Business Requirement Statement
A.18	Product information, including sustainability information	Colour and size are important characteristics within the textile and leather sector. The following data is useful: colour, size, colour size range, colour samples, colour method, colour parameter, print method, print parameter, collection, faults, fault tolerance, quality level, quality parameter, function, print, gender, section (e.g. selvedge), end use group, product group, classification, CITES, animal & plant species, bio based, variant, piece indicator, life cycle stage, technical characteristics, packaging, markings, packaging instructions, product label, individual product (serialized), sustainability characteristics and so on.
A.19	Used materials	Material type, characteristics, used chemicals, applied treatments (including for crop protection), toxicological hazardous material, production and waste materials, materials for colouring and printing, recycled materials in products and/or packaging (in percentage or weights) and material components.
A.20	Production process information	For the production machines and/or devices will be used frequently. Inputs/outputs of these machines/devices and related materials, products, product batches, production cycle and operational and requested parameters are exchangeable. The sustainability characteristics of the production process can be specified, along with a sustainability claim (assertion), certificates and so on.
A.21	Transport & related sustainability information	Transport movement consists of delivery information, consignment and consignment item information, cargo details, transport events, transport route, transport services, emissions, transport means emissions, transport waste recovery disposal process, and other data such as sustainability characteristics and certificates. In addition, details for logistics units such as packaging, labels, packaging instructions and returnable asset instructions are available.
A.22	Transaction references	Type of transaction, the related trade line items for specifying products, product batches, materials (including substitutes and substituted items).
A.23	Agricultural Products Information	Information about agricultural products and animals should be included, such as agricultural zone area, crop plot, field crop, crop produce, crop produce batch, certificate, characteristics, crop production process, agricultural application, animal, animal species etc.

5.4 Business Entity View

The conceptual data model for traceability and transparency in textile and leather value chains is a structured business view of the data required to support business processes and record business events in order to support sustainable trade. For effective traceability recording the five W's (What, When, Where, Why, Who) is needed. Once traceable assets can be traced, the relevant sustainability information behind these traceable assets are retrievable.

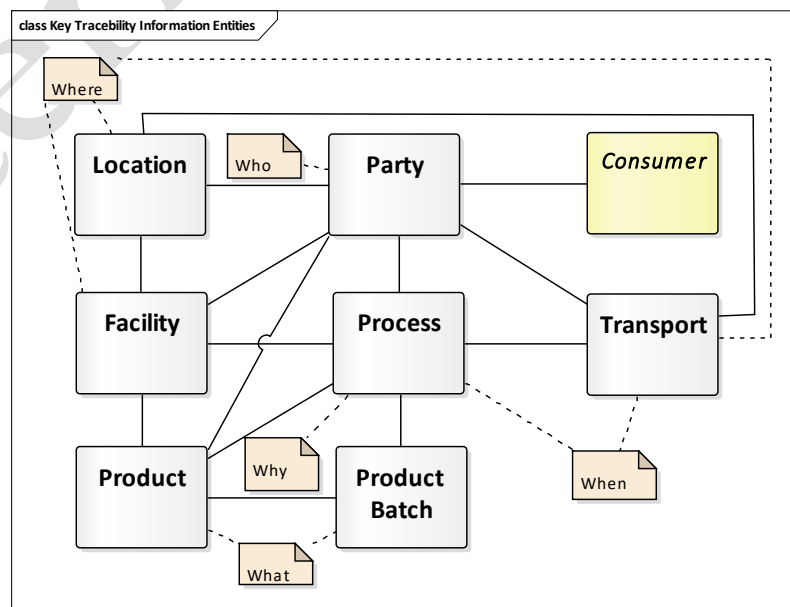


Figure 5-2 Key Traceability Information Entities Canonical Model

5.5 Layers of complexity

The information entities in the conceptual data model should support the different layers of complexity as described in the explanatory note. Supporting different layers of complexity allows inclusion of Small- and Medium-sized Enterprises and developing countries into the traceability system which increases political acceptance. It ensures that traceability technology matches the capabilities of the stakeholders. It is open for “upscaling”, i.e. small stakeholders gradually increasing their capacity so they can adhere to the stricter set of rules in the traceability system. For the design of the key information entities different aspects of complexity mentioned below are taken into account.

- Compact information
 - the usage of optional elements, references and codes is recommended.
 - the granularity of the information depends on demands of a business partner (producer, trader, regulator, retailer or consumer). For some a reference to a certificate will be sufficient, other business partners might need the detailed information behind the certificate or traceable assets. The focus will be on achievable minimum levels of data.
- Detailed information
 - Business partners, such as a regulator or auditor require more detailed sustainability information in order to verify certificates or assertions (claims). Key Performance Indicators (KPIs) may be requested on a frequent basis by auditors and other relevant business partners. In addition, results on inspections, used standard evaluation methods and procedures, reference values, etcetera may be requested.
 - Traceability information relies on “event information”. Event recorded data provides vital traceability information on the 5 W’s (Who, What, Where, Why, When). Registration and retrieval of event information permits the creation of an overview of the whole value chain. This may include individual product and batch histories.
- Supporting different technologies
 - The information entities have been designed to be technology and syntax independent. As a result, they can be used in modern technological solutions such as Blockchain, EPCIS and API as well as the latest technologies for the identification of relevant objects.

5.6 Generic versus vertical approach

The Textile and Leather Data Model has been designed with the aim of using existing information entities from the UN/CCL as much as possible. Most of the UN/CCL business components are designed to be used across industries. Other standards often create specific business components to fit a particular domain or industry. To enhance interoperability, the use of generic, cross-industry business components is fundamental. In other words, technical business components as much as possible generic while within implementation guides, they will get the business meaning for the particular use case. For example, a batch number in an implementation guide about harvesting of cotton could be named a cotton batch number, but in an inventory report from a dyeing company it could be named dye batch number. Technically both use the name batch number. The implementation guides will be created on industry level, but customizable on user level.

Generic		Vertical	
Trade Product		Apparel Product	
Group ID	: 006 Apparel	Garment Part Code	
Type	: 002 Garment	Or	
...		Garment Code	
ID	: 8781278782132	...	
Global ID		...	
...		...	
Batch ID	: 8781278782132-289891	Dyeing Batch Number	
Brand name		Season	
Season		Quantity	
Colour		...	
...		Brand name	
Product Characteristics		Colour	
Material Characteristics		Colour Size Range	
...		..	
Note		Note	
Included Product			

Figure 5-3 Example generic versus vertical approach

5.7 Sustainability information

Sustainability information should be collected and analysed on a wide range of sustainability-related factors, including energy and resource use, gas emissions, and supply chain performance.

Sustainability traditionally has focused on resource-related factors such as materials consumption, energy use, and water use.

Other factors such as operational data (e.g. employee headcount, hours of operation, production levels, facility productivity) can affect sustainability performance. The sustainability related data can be regarded as characteristics of a product, an organization or a process, of which some examples are shown in below figure and tables.

5.7.1 Sustainability Information Entities

The figure below shows a number of information entities related to sustainability residing in the data model.



Figure 5-4 Sustainable Trade and related data

5.7.2 Sustainability Matrix

The table below is an example of sustainable aspects for a product, a process and an organization.

Table 5-3 Example Sustainable Matrix

Characteristic	Environment Data	Social Data	Health Data
Product	Embodied energy Embodied water Embodied chemicals Recycled content Recyclability Life Cycle Assessment Organic content Biobased Chemical properties		Safety (for consumer) Safety (for children) Flammability
Organization/process	Energy consumption Water management Waste management	Human rights Child/forced labour	Occupational safety and health
	Chemical management Energy consumption Renewable energy Sustainable procurement	Gender Discrimination Fair business practice Labour practices	Hazardous environment Machinery Safety Attacks from animals Building safety

5.7.3 Structuring sustainability data

Certificates and characteristics, such as “*Product Certificates*” and “*Product Characteristics*” are vital information entities within the reference data model. Their attributes are shown in below figure. Commonly not all attributes will be exchanged in a message. The use case will determine which ones

will be used. The use of certificates and characteristics will create flexibility. On the other hand, it introduces the need for using code lists to express the type of certificate or characteristic.

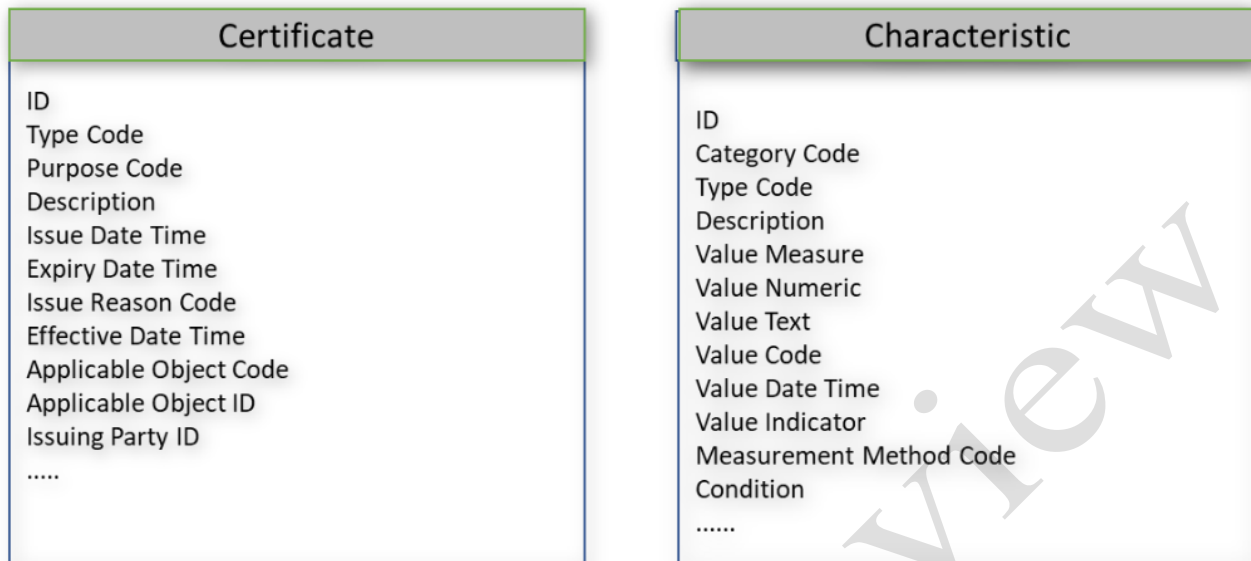


Figure 5-5 Structured Sustainability Data

Sustainability aspects has been structured into certificate and characteristic information entities. The example below specifies different sustainability certificates, accompanied with sustainability characteristics.

Product Certificate

A product certificate may be specified for a material (such as toxicological hazardous material, transport waste materials, chemicals), products and batches. In addition, a product certificate can be specified on the level of an organization (party), production facility, production unit and as obtained due to the result of an inspection.

Process Certificate

A process certificate may be specified for a production process, a chemical treatment, a finishing treatment, a crop protection treatment, a waste disposal process and a transport movement process. In addition, a process certificate can be specified on the level of an organization (party), production facility, production unit and as obtained due to the result of an inspection.

Organization Certificate

An organization certificate may be specified for an organization (party), production facility, production unit, production process, transport movement and as obtained due to the result of an inspection.

In the information entities below the sustainable information entities have been coloured red.

<p>Party/Organization</p> <p>Product Certificates Process Certificates Organization Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection ... Provides Production Process Organization Certification ...</p>	<p>Production Facility</p> <p>Product Certificates Process Certificates Organization Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection ... Product Certification Product Batch Certification Process Certification Organization Certification Production Unit </p>	<p>Production Process</p> <p>Product Certificates Process Certificates Organization Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection ... Product Certification Process Certification Product Batch Certification Organization certification In-/output material, prod., batch Chemical, Finishing, Crop Protection Treatment Process Characteristics</p>	<p>Product</p> <p>Product Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection ... Product Certification .. Included product Component Materials Material Characteristics Product Characteristics Chemical, Finishing Treatment Production Process Disposal Instructions</p>
<p>Product Batch</p> <p>Product Batch Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection ... Product Batch Certification Component Materials Chemical, Finishing Treatment Agricultural Application Disposal Instructions </p>	<p>Material</p> <p>Product Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection Distinct Chemicals Components Materials Material Characteristics Material Waste Disposal </p>	<p>Transport Movement</p> <p>.. .. Process Certificates Organization Certificates Sustainability Characteristics Sustainability Claim Sustainability Inspection ... Calculated Emissions Transport Waste Disposal Instructions Carried Materials Used Transport Means </p>	<p>Referenced Location</p> <p>.. Sustainability Characteristics Sustainability Claim Sustainability Inspection Agricultural Application </p>

Figure 5-6 Entities having sustainability information

5.7.4 Characteristics, Parameters and Tolerances

To avoid numerous components which are “similar but different” due to a vertical approach, the use of the following three components are very prominent throughout the Textile and Leather reference data model.

Characteristic	Parameter	Tolerances
<p>ID Type Code Description Value Measure Value Numeric Value Text Value Code Value Date Time Value Indicator Measurement Method Code Condition </p>	<p>ID Type Code Type Text Description Name Value Text Value Measure Value Allowed Indicator Status Code Status Value ..</p>	<p>Information Minus Quantity Surplus Quantity Minus Percent Surplus Percent Margin Numeric Margin Percent </p>

Figure 5-7 Characteristics, Parameters, Tolerances

Within the Textile and Leather reference data model, the key information entities may have different characteristics, e.g. *product* characteristics, *sustainability* characteristics, *technical* characteristics. In general, a characteristic has a type and value, either coded or as text. For the Textile and Leather sector the *product* and *technical* characteristics, in addition to *sustainable* characteristics are important too. The technical characteristics could be divided into different categories such as colour fastness, construction, dimension stability. In other words, a category and type code will provide the

semantics to the technical characteristic. An optional parameter may limit the scope of the characteristic. A tolerance may be expressed for a characteristic value and/or parameter value.

As an example, in the table below is shown that the colour fastness characteristic during dry cleaning at 40 degrees with a 5% minus deviation tolerance (i.e. colour fastness of 65-70%).

Table 5-4 Example of a Technical Characteristic

Characteristic		Parameter		Tolerance	
Category	Colour Fastness				
Type	Dry Cleaning	Type	Temperature	Type	Deviation
Value	70%	Value	40 Degrees	Minus %	5

5.8 Traceability

Traceability is tracing the movement of an asset forward and backward through specified stages of the extended supply chain. Visibility data provides details about traceable assets regarding where they are in time and why, and especially *across* organizations.

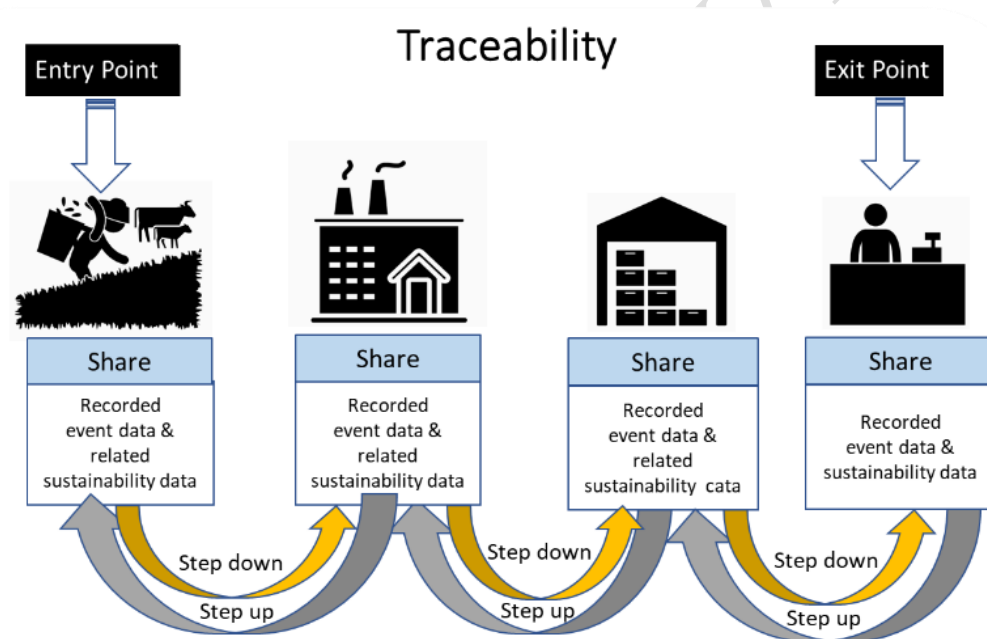


Figure 5-8 Traceability across organization in the value chain

5.9 Traceable assets

A traceable asset may be a material, a product/product batch, either on class level (type) or instance (individual, serialized). Traceable assets may be aggregated or disaggregated due to logistics processes, such as placing products into logistics units. The term *Traceable Asset*, will be used to denote any item, such as an object, a product or other traded item or a service that needs to be tracked across the supply chain. Traceable assets and their logistics units make use of unique identifiers. During the transformation process, it is essential to record the identifiers of the *inputs* and *output*. In other words, of which materials, products, products batches are produced. In addition, the link between the traceable asset and the logistic unit is important. The traceability system is primarily based on product identification and segregation. The focus of the traceability framework is to trace the asset, no matter if it is packed into a logistic unit or not.

Traceable assets

Transformations and IDs

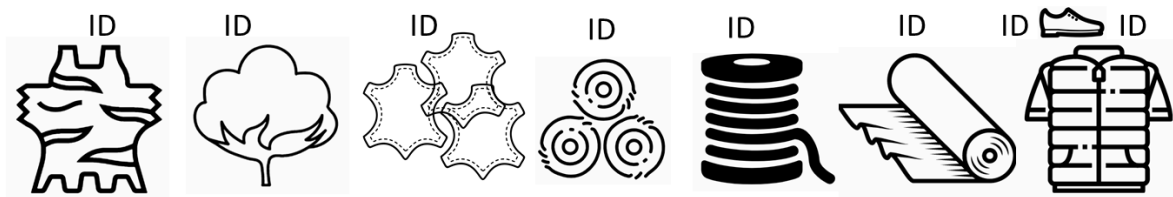


Figure 5-9 Traceable assets (materials, products, batches)

In the case of logistics units, one or more products are aggregated together (e.g. aggregation of cases on a pallet or in a container) or disaggregated (e.g. disaggregation of cases from a pallet or container). In addition, products or batches can be split across several pallets or containers. During the aggregation/disaggregation process, it is essential to record the identifiers of the logistics units being aggregated or disaggregated. In addition, the link between the traceable asset (being a material, product, batch) and the logistic unit is important in order to be able to trace these assets.

Logistic Units

Aggregation/Disaggregation and IDs



Figure 5-10 Examples of logistic units

The information entities in scope of the Textile and Leather Reference Data Model should be reusable within the context of other technologies such as EPCIS¹ (Electronic Product Code Information System) and Block Chain.

5.10 Unique identifiers (ISO/IEC 15459)

ISO/IEC 15459 (part 3) specifies a unique, non-significant, identifier (UID) for products and/or items, represented in a bar code label or other media attached to or incorporated into the item. The UID shall start with a string of characters, the *issuing agency* code, assigned to the issuing agency by a registration authority. There are different agencies which issue UIDs. One of them is GS1. Different industries, including the Textile, Retail and Transport are using GS1 standards for identification of trade items (products or individual products), logistic units and shipments. This standard allows business partners to keep their internal coding systems. But, when applicable, these business partners need to translated their identifiers to these unique identifiers when sending or receiving data from their business partners. In principle, the own identification is provided with an agency code and a check digit. In some way comparable to the transformation to the IBAN bank account number. The ISO/IEC standard enables data collection via barcode formats, concepts for

¹ The UN/CEFACT EPCIS based information entities are aligned with the ISO/IEC 19987 specifications, published by the ISO/IEC JTC1/SC31. These specifications fit with the ISO 18000-63 specifications for the traceability information system, repository and network structures.

labels and EPC/RFID and allows users to share information via EPC Information Services (EPCIS) and Electronic Trade.

Reasons for UIDs

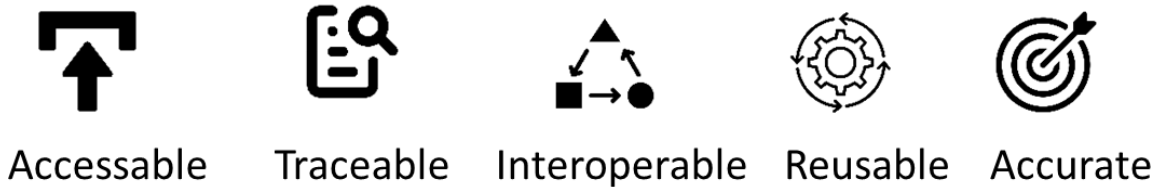


Figure 5-11 reasons for Unique Identifiers

Unique identifiers should be assigned to:

- Product type level *materials, products / components*
- Product batch/lot level *group of products*
- Instance level *instances of products, product batches*
- Logistics units level *container, pallet etc*
- Shipment level *shipments, consignments*
- Party level *organization, company, facility etc*
- Location level *production unit, warehouse, crop plot*

5.11 Code Lists

The Textile and Leather Reference Data Models reuses the code lists used by a number of information entities within the data model. These codes lists are created by the UNECE, ISO, EDIFICAS and others. The Textile sector could reuse the code lists of the EU Textile standard E-Biz when relevant, though it is recommended to use global recognized codes as published by UN/CEFACT.

5.12 Product Segregation

In advanced supply chains it is possible to implement a traceability system based on product identification and segregation. Though, this requires a high level of organization in the supply chain, i.e. assets can be tagged, traced and the information can be made available in electronic format. These systems will use product segregation which is the preferred model for a traceability system. Product segregation can be implemented both for bulk commodities and for identity preservation.

The objective is:

- Products produced according to the same sustainability standard are strictly separated from other products.
- Bulk commodity which is certified is strictly separated from non-certified materials while at the same time allowing the mixing of certified materials from different producers.
- Identity preservation requires segregation of the certified material from the non-certified materials throughout the supply chain to provide traceability from a specific plantation to the final consumers.

Product Segregation

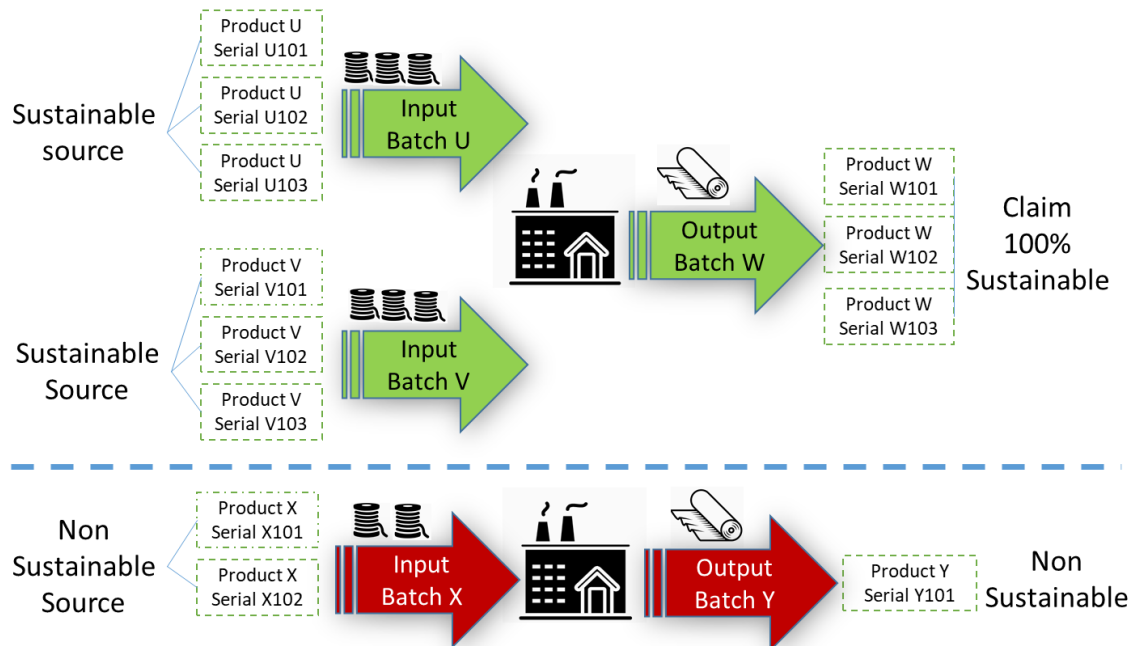


Figure 5-12 Segregation of products and raw materials

A Product Segregation approach requires a well-defined administration and process. If not, assets are processed and merged with other assets. Where product segregation is difficult or nearly impossible to achieve e.g. for certified and non-certified commodities such as cotton, green electricity other methods can be used. In these instances, Mass Balance or Book and Claim systems can be used. However, even implementing a Mass Balance system or a Book and Claim system requires stringent technical and organizational requirements.

5.13 Mass Balance

It is not always feasible to segregate sustainable and non-sustainable products and materials from the perspective of efficiency or environment. In the Mass-Balance system sustainable and non-sustainable sources are mixed. As these assets move through the supply chain an exact account is kept about their volume/weight ratios. Likewise, Product Segregation system, it requires a well-defined administration and process design in order to implement a Mass Balance system.

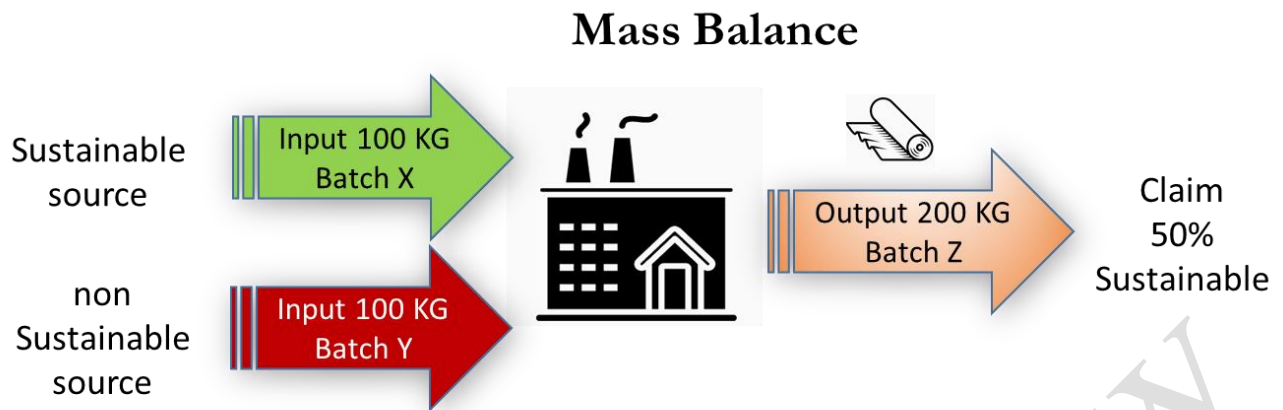


Figure 5-13 Mass Balance

5.14 Book and Claim

If either Product Segregation or Mass Balance system is impossible to implement, a Book & Claim system can be applied. Where sustainable and non-sustainable sources are mixed, the right to claim sustainable sourcing is traded in the form of sustainability certificates. A central authority monitors the sustainability claims by brands and retailers and compares these with the volumes/weights specified on certificates issued and traded. In the figure below, a sustainability certificate is traded in order to claim a 50% sustainable product. This system commonly used for commodities such as green electricity.

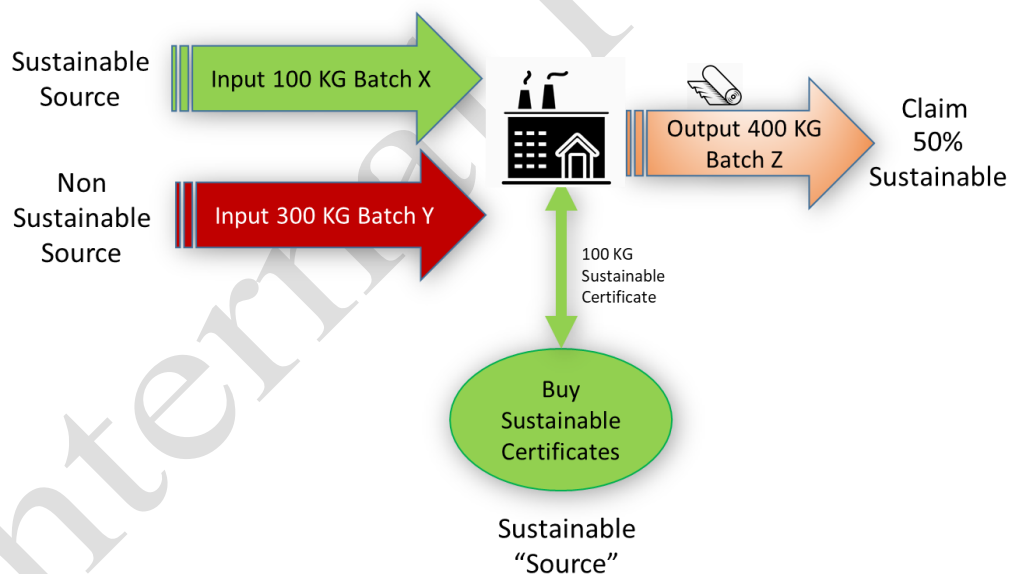


Figure 5-14 Book and Claim

5.15 Visibility

The Textile and Leather Referenced Data Model supports traceability and transparency. This model is a structured business view of the data required to support business processes and record business events related to sustainable trade. Key data for traceability are the five W's (What, When, Where, Why, When). Once traceable assets can be traced, the relevant sustainability information behind these traceable assets are retrievable. Each business partner in the value chain should record and provide the key data elements. In addition, business partners should make their sustainability data available when requested by their business partners or regulators.

Recording Data

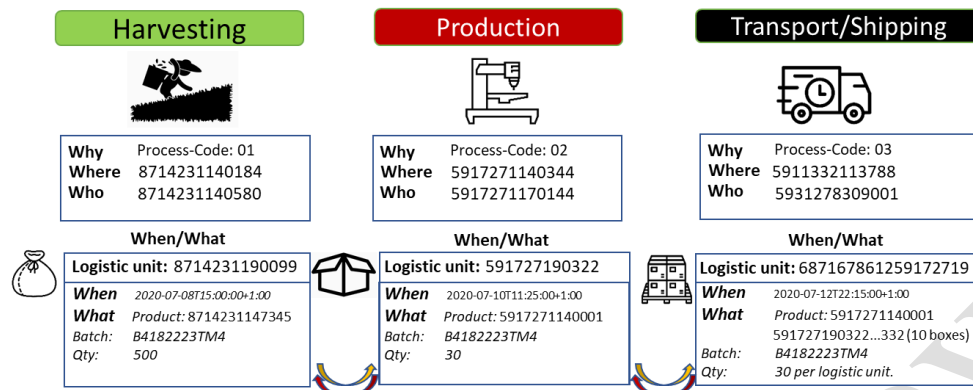


Figure 5-15 Event Recording

5.15.1 Sharing Data

The information about significant events and sustainability could be exchangeable between business partners and regulators within the value chain.

Sharing information about the traceable assets could be done by:

- Traditional Electronic Data Exchange (EDI)
- Electronic Product Code Information System (EPCIS - ISO/IEC 19987)
- Blockchain (DLT)
- Application Programming Interface (API)

5.15.1.1 Traditional Electronic Data Exchange (EDI)

Traditional Electronic Data Exchange (EDI) is fundamentally based on a computer-to-computer interchange of strictly formatted messages that represent documents. EDI implies a sequence of messages between two parties, either of whom may serve as originator or recipient.

From the Textile and Leather Reference Data Model different business documents (messages) can be derived to serve a particular purpose, such as the exchange of data regarding an inspection and sustainability. A vast number of supply chain and transport related messages have been already created by UN/CEFACT. This is done on a similar way, deriving messages from a reference data model, such as the Supply Chain Reference Data Model (SCRDM) for despatching, receiving, ordering, invoicing, forecasting etcetera and the Multi Modal Transport Reference Data Model (MMT RDM) for shipping, transporting, declaring shipments etcetera.

Within separate business requirements specifications (BRS) the necessary use cases and data exchange structures (messages) needed for the Textile and Leather sector will be described.

Again, traditional EDI implies a sequence of messages between two parties. Nowadays new requirements regarding the exchange of data emerge. The reason for this is often the need for instant, trustful, shareable and light weight information.

Assumably, a hybrid form of document-oriented information exchange and fragmented, on demand information will exist.

5.15.1.2 Electronic Product Code Information System (EPCIS)

As there are different options for achieving traceability and transparency, the key issue will be how to share the information and how to retrieve information backward and forward within the supply chain instantly and effectively. Forwarding or retrieving information from a step forward or backward is an option, but is not very efficient for getting an overview across organization and across supply chain stages. The EPCIS standard, incorporated in the Textile and Leather reference data model, consists of a few information entities to be exchanged to a central repository for instant sharing and overview across organizations within the supply chain. Additional information, such as contributing to more sustainability trade and transparency may be exchanged using traditional EDI or using another technology such as API.

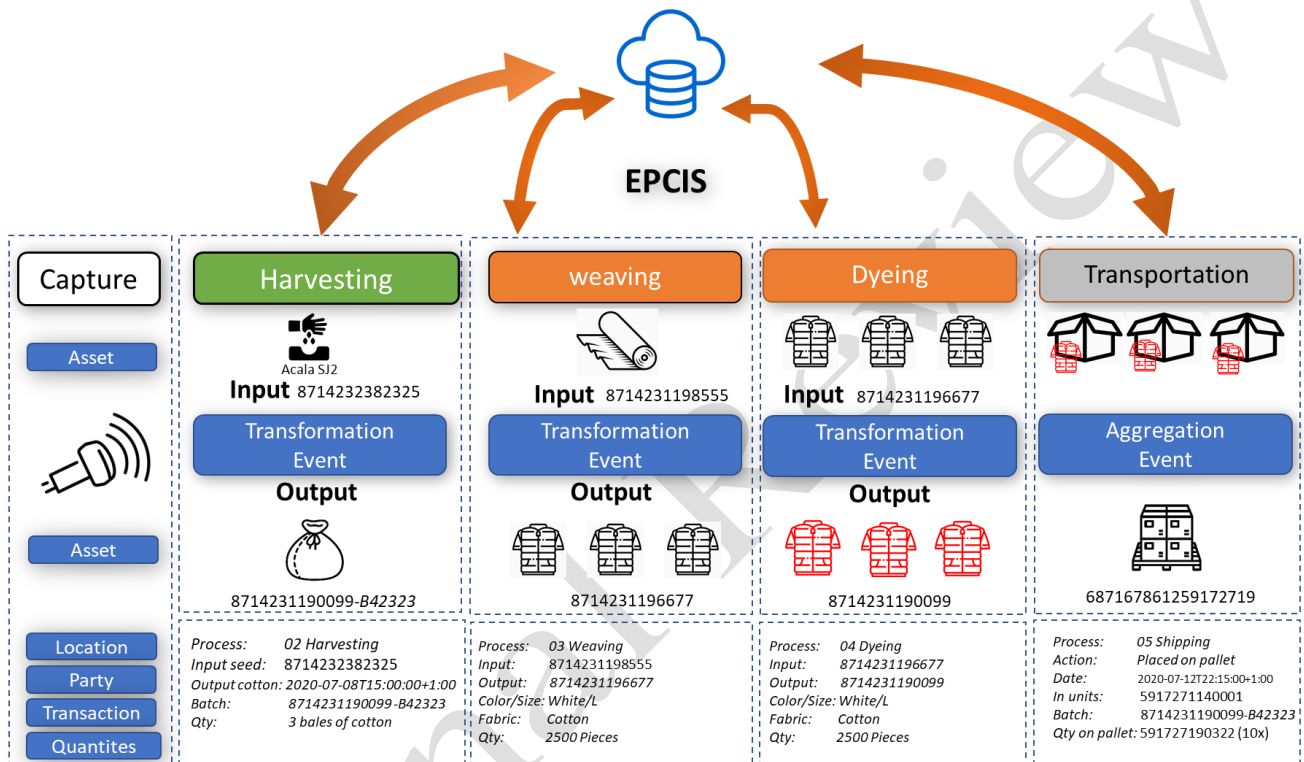


Figure 5-16 EPCIS for traceability, visibility and sharing

Vital for a EPCIS traceability solution is identifying the relevant events, capturing and recording event data, identifying the relevant processes and activities. A *Chain of custody/ownership* can be created by tracing all business partners that had physical possession of the asset. By this, it becomes possible to validate the origin and pedigree of an asset.

5.15.1.3 Blockchain (DLT)

Blockchain or Distributed Ledger Technology (DLT) could become one of the components of a broader traceability system. It is quite different to traditional electronic data exchange (EDI) or EPCIS. Blockchain is not business application. It's part of a business application. That's why the term *blockchain-based application* is often used. Blockchains provide a distributed ledger that registers transactions in an immutable, time-ordered manner. In simple words, they provide proof of transactions that have happened and not have been altered. Likewise, the EPCIS solution, events are to be captured and recorded. Retrieving data is done through a cryptographic hash of the data and a pointer to off-chain data. In order to share data in order to support traceability and visibility, standardised data structures (reference data model) and business data exchange structures (CCBDA based messages).

5.15.1.4 Application Programming Interface (API)

An API is a set of functions that allows applications to access data and interact with external software components, operating systems, or microservices. Standards organisations such as UN/CEFACT and others have provided global leadership in electronic data interchange (EDI) standards for many decades through high quality outputs such as UN/EDIFACT and XML Schema. The vast majority of electronic international trade transactions today are implemented using these EDI standards. The rise of web platforms that exchange data via RESTful JSON APIs presents a new paradigm for B2B data exchange. The UN/CCL and Reference Data Models are currently published as a CSV, XML, PDF or HTML UN/CEFACT is currently active to define the naming and design rules for consistent publishing of reference data models and code lists as JSON-LD vocabularies. This makes UN/CEFACT semantics accessible and consumable for web developers. API's are not the solution for sharing data regarding traceability and transparency but are complement to a traceability system for retrieving data

Internal Review

6 Business Choreography View

The details regarding the high-level Business Choreography View are documented in separate documents.

Internal Review

7 RDM Business Information View

7.1 RDM Canonical Data Models

In this chapter the canonical models (simplified models) for the key information entities of a traceability system are described. Not all information entities are listed in the diagrams because of clarity reasons. More details can be found within Annex I.

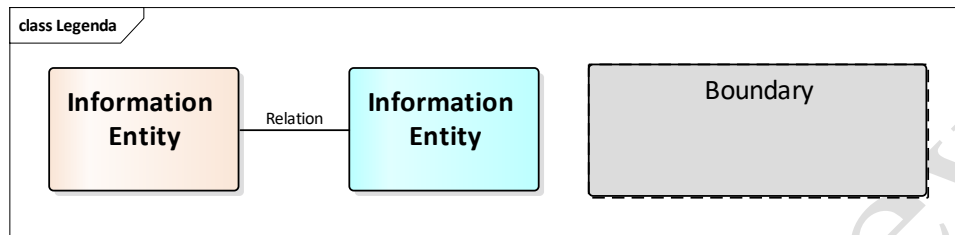
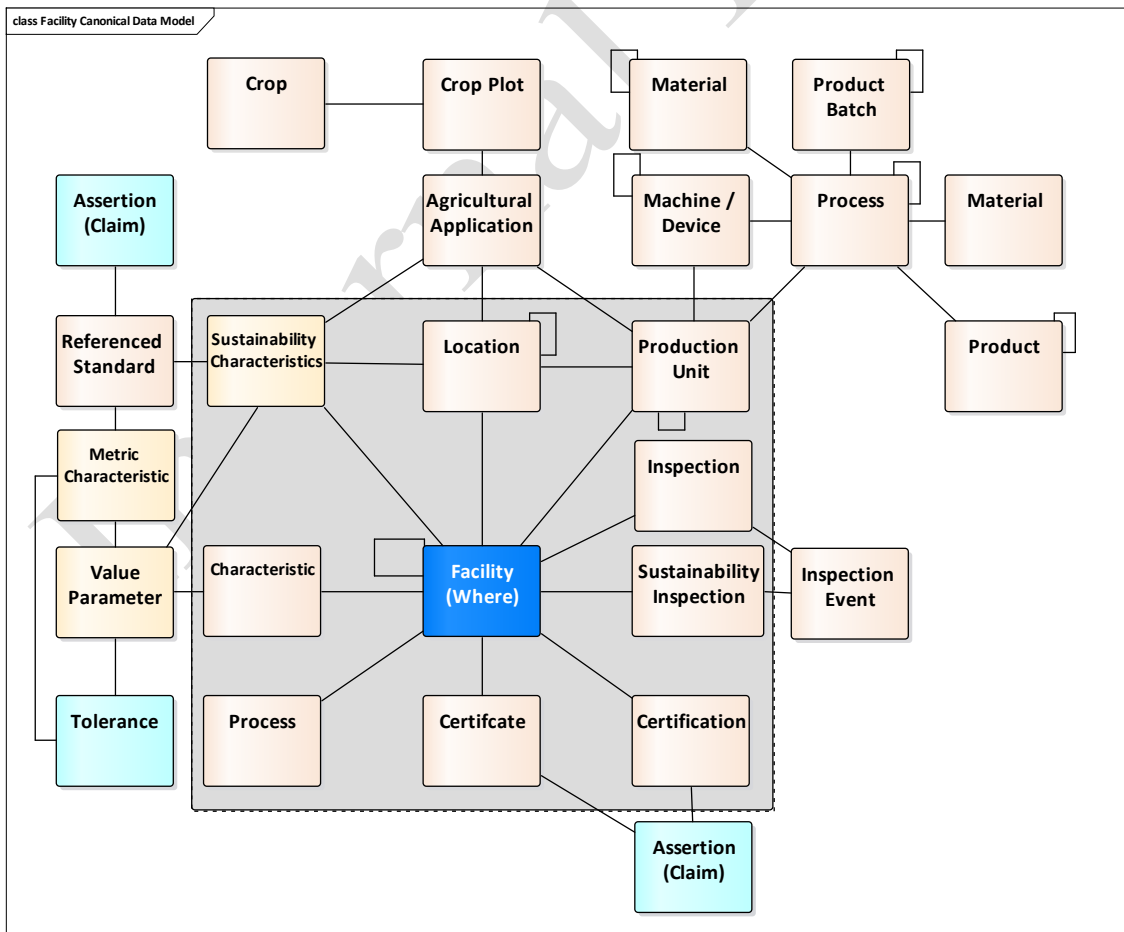


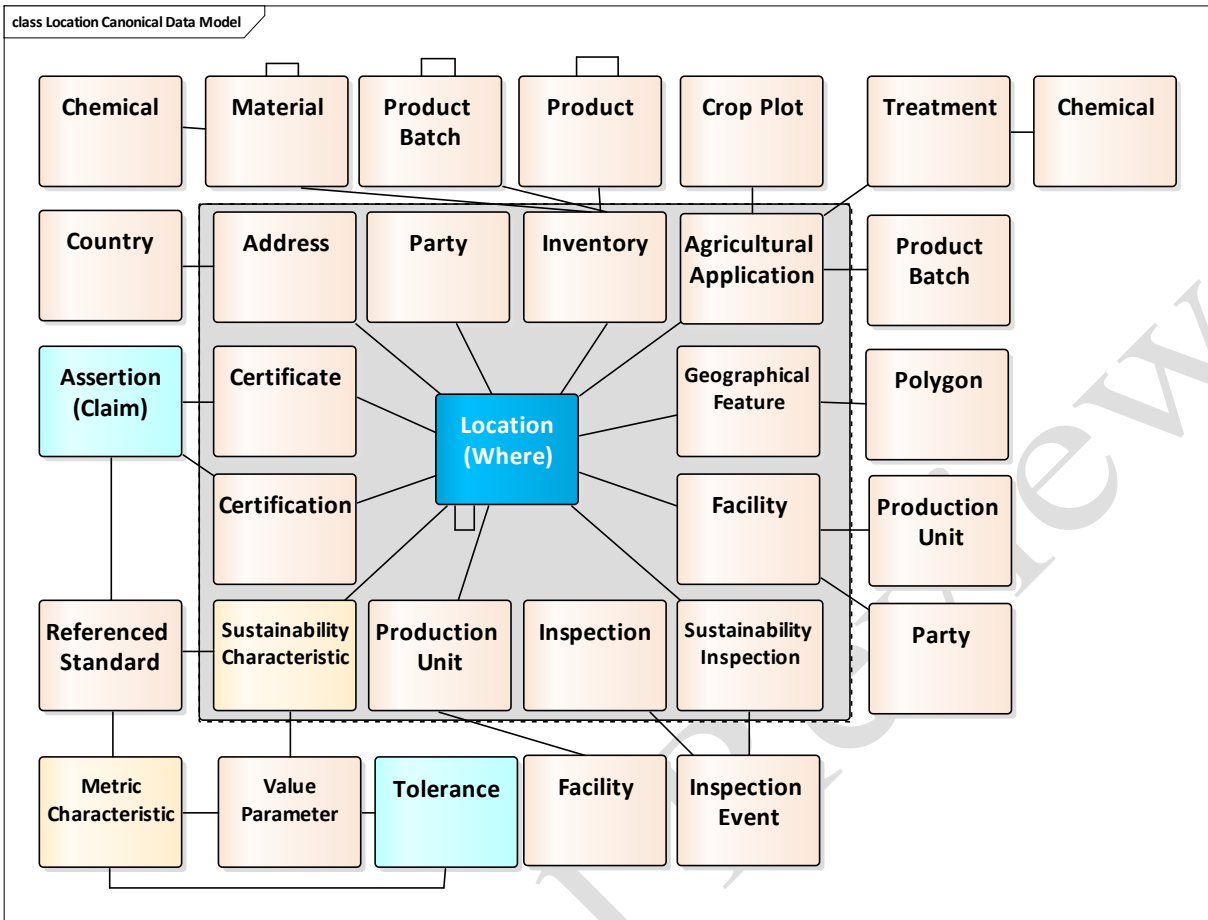
Figure 7-1 Diagram legenda

1. Pink coloured information entities (or classes): exists already in UN/CCL
2. Blue coloured information entities: new for the UN/CCL, on the core component level (CC)
3. The objective of the used boundary is to emphasize the direct related information entities which are directly related to the described entity. Not all information entities related to those *direct related* information entities have been included in the diagrams because of clarity reasons (too much for this purpose).

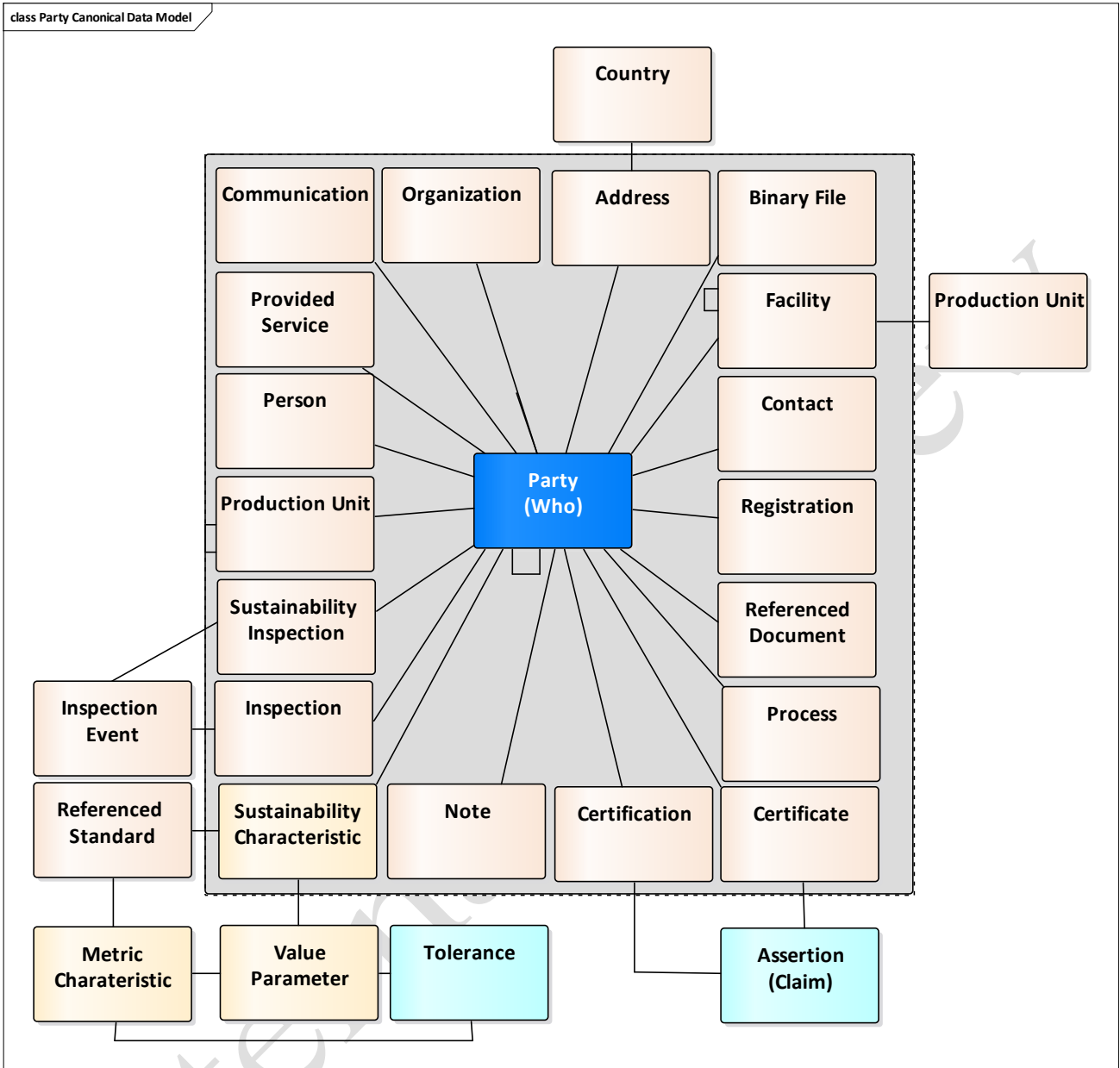
7.1.1 Facility Canonical Data Model



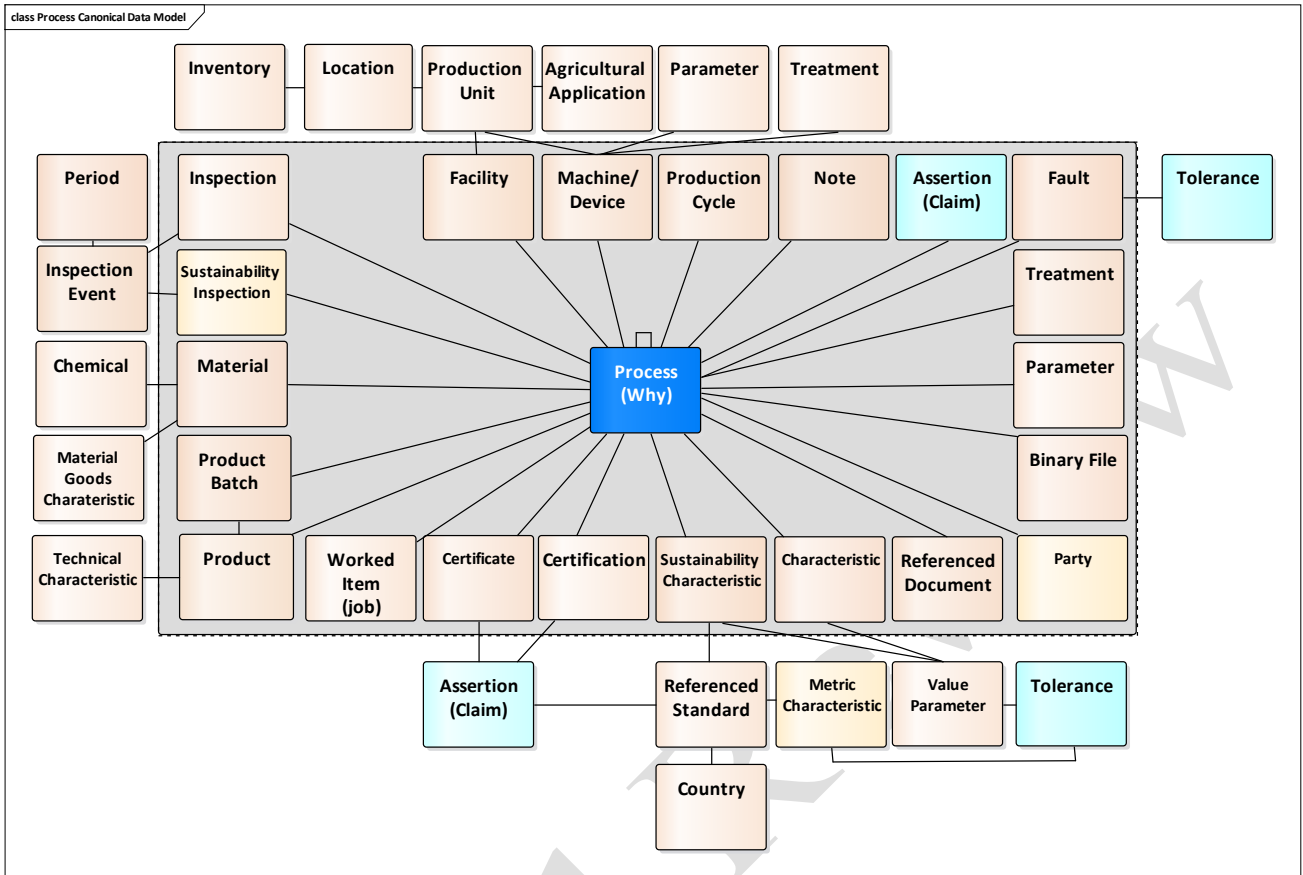
7.1.2 Location Canonical Data Model



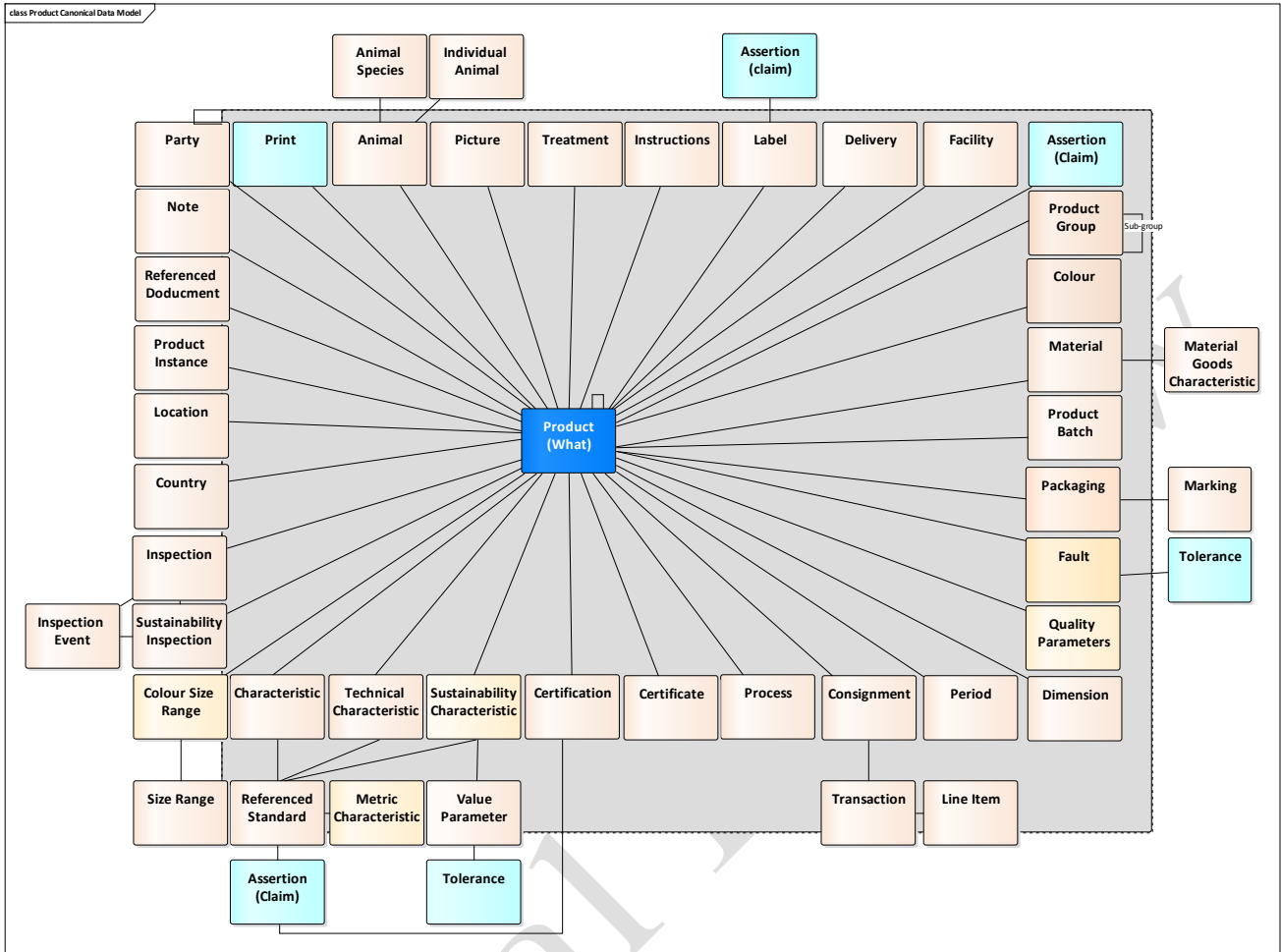
7.1.3 Party Canonical Data Model



7.1.4 Process Canonical Data Model

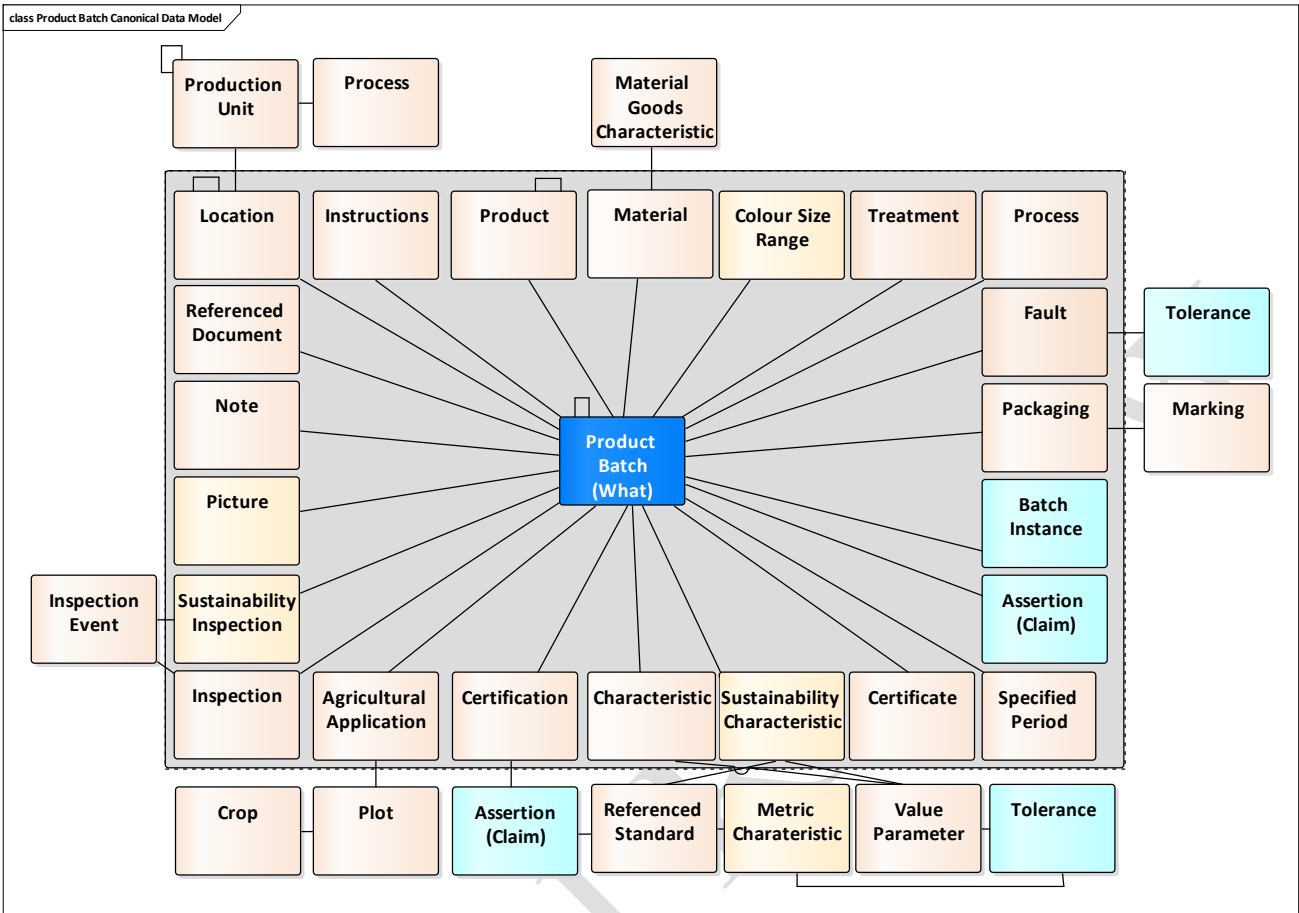


7.1.5 Product Canonical Data Model



Internal

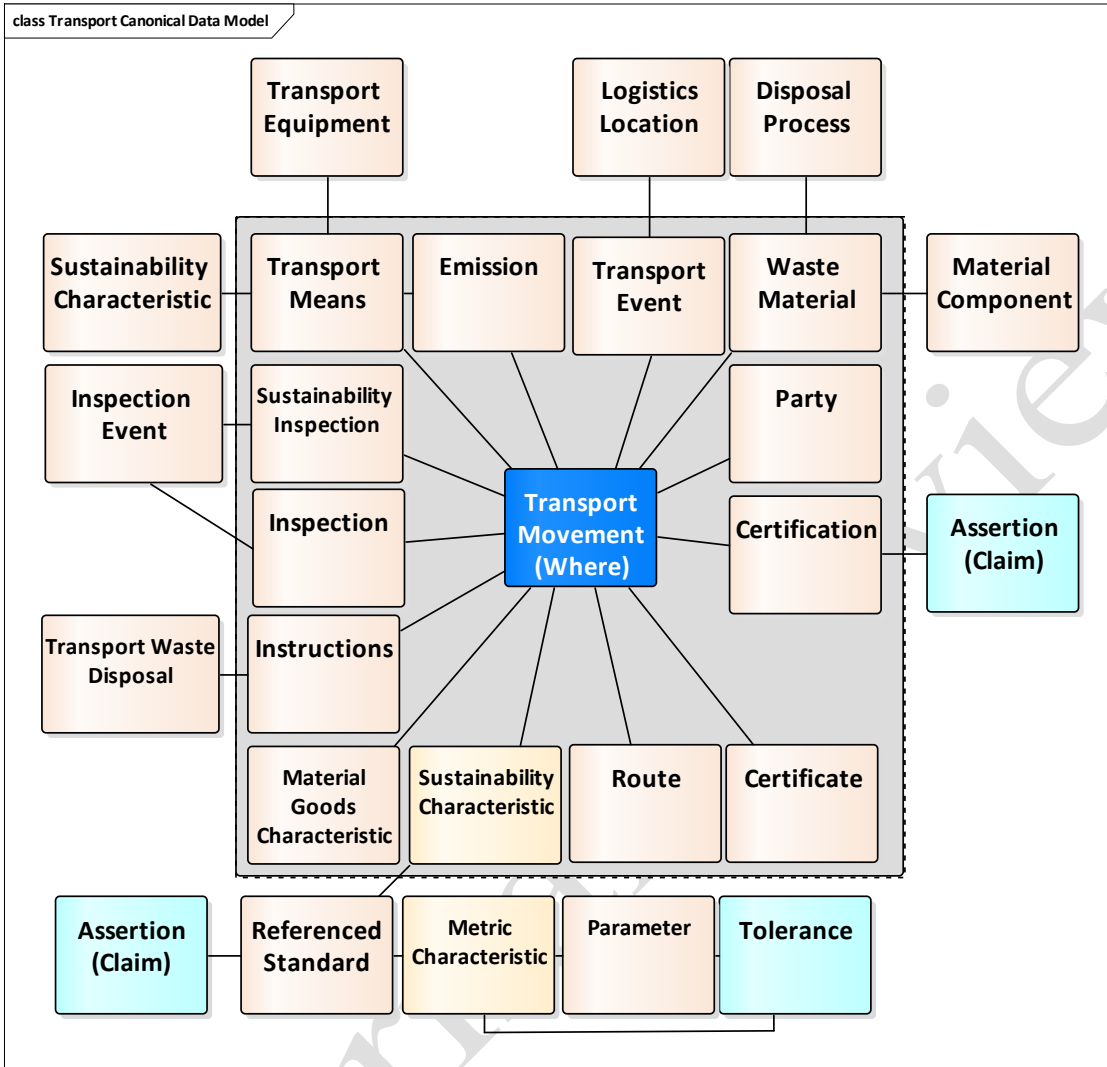
7.1.6 Product Batch Canonical Data Model



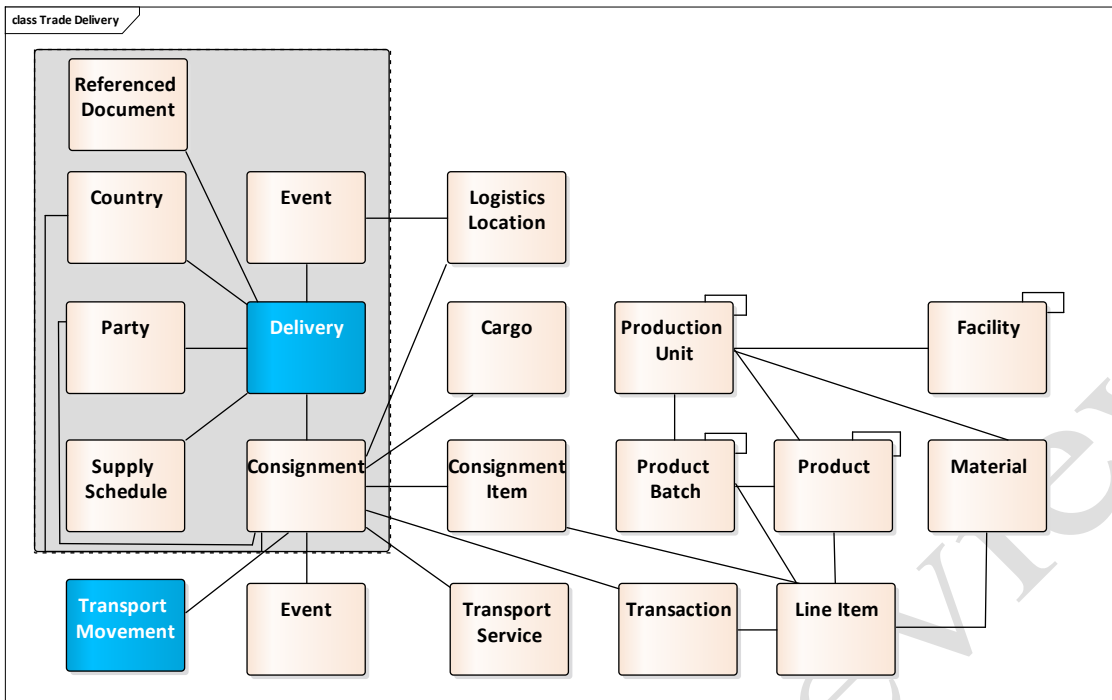
Internal

7.1.7 Transport Canonical Data Model

7.1.7.1 Transport Movement



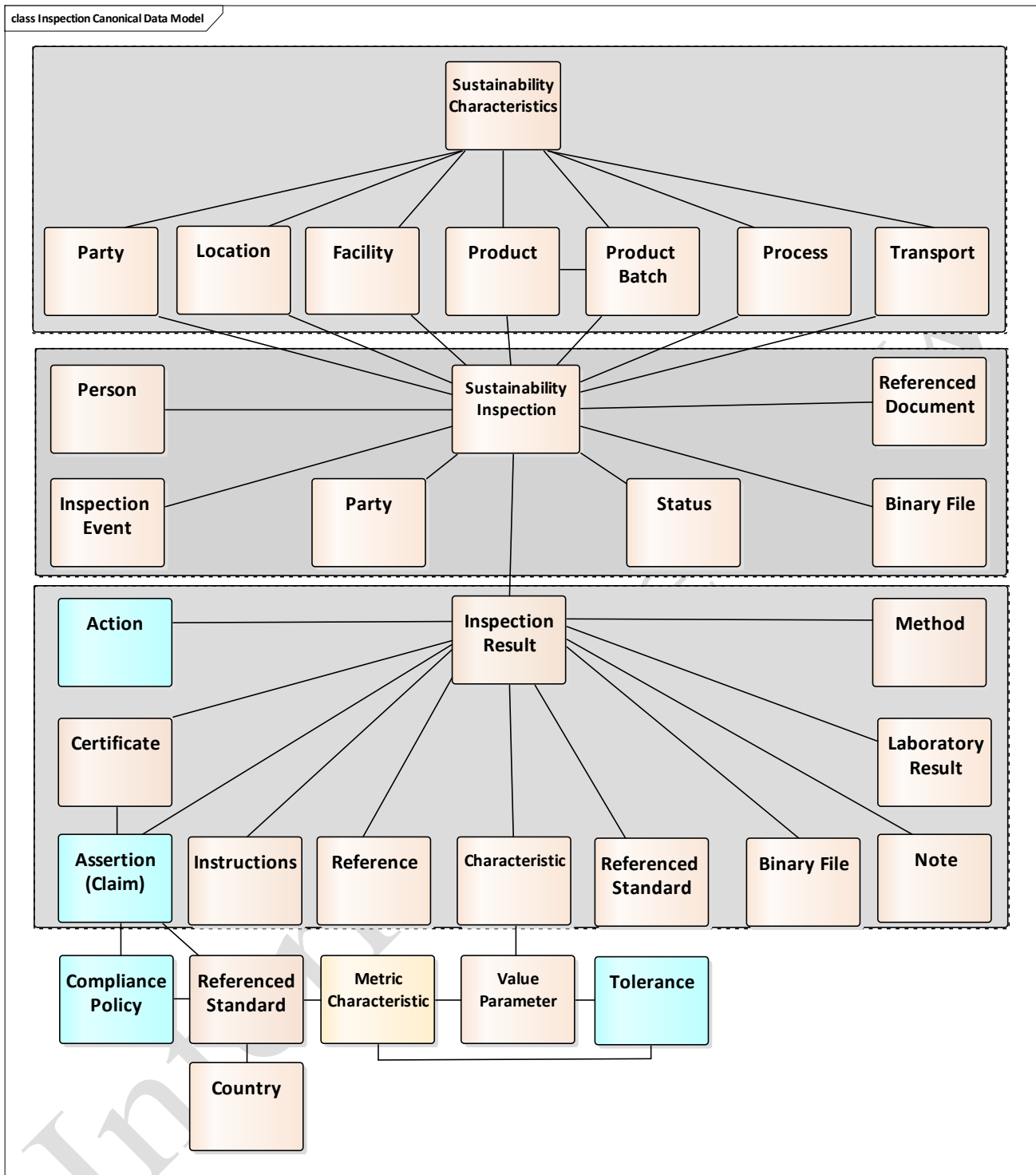
7.1.7.2 Trade Delivery



7.2 Sustainability Inspection Canonical Data Model

The sustainability inspection canonical data model relates to sustainable aspects, standards, compliance policies etcetera. The list below summarized the information within this model. This part of the reference data model could be used for deriving messages related to inspections.

- **Inspection Event(s)**
 - Can take place for a party, location (e.g. crop plot, warehouse), facility, product, product batch, process or transport (movement).
 - **Inspection:**
 - Party, person, event, method, instructions, note, event
 - **Inspection Result**
 - Corrective and/or preventive actions or other actions
 - Obtained Certificate(s)
 - Obtained Assertion (Claim)
 - Inspection Result Characteristics
 - Used method(s)
 - Reference(s)
 - Referenced Standard
 - Attachment(s) (binary files), Notes
 - Interpretation Inspection Result Applicable Parameter
- Included Laboratory Observation Result**
- Observation Result Characteristics
 - Interpretation Observation Result Parameter



7.3 Electronic Product Code Information System (EPCIS) Data Model

The EPCIS data model allows:

- Tracing an object (e.g. product/product batch/logistic unit/shipment) movement backward and forward through specified stages of the extended supply chain.
- Tracing all partners that had physical possession of an object and by this creating a “Chain of custody/ownership”.
- Having details about traceable assets in the supply chain regarding where they are in time and why, and especially across organizations.

- Validating the origin and pedigree of an object, by this having a means for anti-counterfeiting and knowing the provenance of an object.
- Optimising stock levels by capturing and analysing inventory inputs, outputs, stock taking.
- Enhancing sustainability (environment, social, health) and consumer protection through more detailed information about the object.
- Having a better product/-batch information exchange across the supply chain.

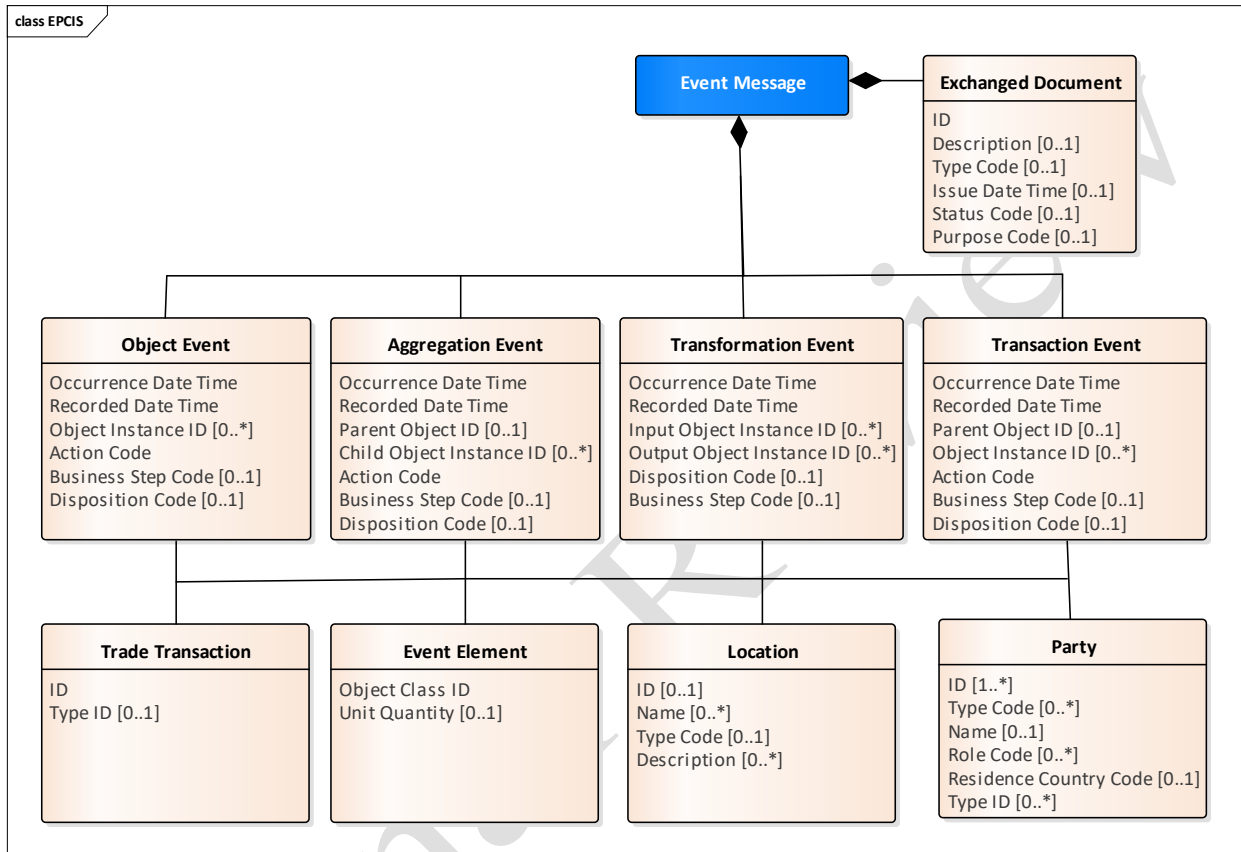


Figure 7-2 UN/CEFACT Traceability Event Data Model

Dimensions of EPCIS

- **What:** *identifiers* of the object(s) or other entities which are the subject of the event.
- **When:** *date and time* when the event took place, and the local time zone in effect.
- **Where:** identifier of the *location* at which the event occurred, and identifier of the location where the object(s) are expected to be following the event.
- **Why:** identifier of the *business step* (e.g. receiving), an identifier that indicates the *business state* of the object(s) following the event (e.g. destroyed), identifiers of the *shipping* and *receiving* parties, links to relevant *business transaction* documents (e.g. a purchase order, an invoice), instance- or lot-level master data, and/or other information defined via user extensions.

The basic events of the EPCIS system are generic, for all types of products, over the whole product lifecycle, all processing steps from the raw material source up to the point of sale of the end product.

Object Event:

- Represents an event that happened to one or more objects. This is the simplest type of event, as well as the most commonly used.

- Example: Serial #s 111, 112, and 113 of Product X were observed at 10:23am on March 15, 2014, at Location ABC, during a "shipping" operation.

Aggregation Event:

- Represents an event that happened to one or more objects that are physically aggregated together or disaggregated from each other. This is the next most common type of event after Object Event (both covering vast majority of events). The event contains the identifier of a parent object, and identifiers of one or more child objects
- Example: Serial #s 111, 112, and 113 of Product X were placed into Bin #1234 at 10:23am on March 15, 2014, at Location ABC, during a "packing" operation.

Transformation Event:

- Represents an event in which input objects are fully or partially consumed and output objects are produced.
- Example: 10 units of Raw Material X and 10 units of Raw Material Y were mixed together to create (transformed) 100 units of Product Z, at 10:23am on March 15, 2014, at Location ABC, during a "mixing" operation (mixing batter and chocolate chips into cookie dough).

Transaction Event:

- Represents an event in which one or more objects become associated or disassociated with one or more identified business transactions.
- Example: Serial #s 111, 112, and 113 of Product X were designated to fulfil Purchase Order 9876 at 10:23am on March 15, 2014.

Trade Transaction:

- identifies one or more particular business transactions that are relevant to an event. A business transaction is identified by a pair of identifiers: one identifier that says what type of business transaction is referenced, and a second identifier that names the particular business transaction of that type.

Event Element:

- The (quantity) event element indicates the number of objects in the object class event. This indicates for example the number of products in a product batch. But on a more detailed level it can represent the product batch weight etcetera.

Party:

- The source or destination is an identifier for the party that relinquishes ownership (source) or receives ownership (destination) of the objects as a result of the business transfer.

Location:

The source or destination location is an identifier of the physical location from where the objects are transferred (source) or to where the objects are transferred (destination). A source of type location for a shipping/receiving business step should be consistent with the read point on that event.

7.4 TL RDM Business Information Master

Reference Data Model Master				
Type	Name	Definition	Min	Max
Root	Exchanged Document Context	The set of context parameters specified for a use of this master message assembly.	0	1

Reference Data Model Master				
Type	Name	Definition	Min	Max
Root	Exchanged Document	A collection of data for a that is exchanged between two or more parties in written, printed or electronic form.	1	1
Root	Object Event	Object event details.	0	unbounded
Root	Aggregation Event	Aggregation Event details.	0	unbounded
Root	Transaction Event	Transaction Event details.	0	unbounded
Root	Transformation Event	Transformation Event details.	0	unbounded
Root	Product	Product details.	0	unbounded
Root	Party	Party details.	0	unbounded
Root	Location	Location details.	0	unbounded
Root	Delivery	Trade Delivery details.	0	unbounded
Root	Consignment	Transport Movement details	0	unbounded
Root	Sustainability	Product Sustainability details.	0	unbounded

7.5 TL RDM Business Information Entities (overview)

The list below contains an overview of all information entities residing in the Textile and Leather Reference Data Model (TL RDM).

Note: The names of the information entities are so called short names instead of the technical dictionary entry names as used within the UN/CCL and published subsets.

Subject	Information Entity	Subject	Information Entity	Subject	Information Entity
Agro	Agricultural Application	Party	Legal Organization	Sustainability	Distinct Chemical
Agro	Agricultural Certificate	Party	Legal Registration	Sustainability	Ingredient Range Measurement
Agro	Agricultural Characteristic	Party	Organization Characteristic	Sustainability	Material Waste Recovery Disposal Process
Agro	Agricultural Zone Area	Party	Party Contact	Sustainability	Metrics Characteristic
Agro	Animal Certificate	Party	Specified Party	Sustainability	Referenced Standard
Agro	Crop Plot	Party	Tax Registration	Sustainability	Returnable Asset Instructions
Agro	Crop Produce	Party	Trade Contact	Sustainability	Specified Tolerance
Agro	Crop Produce Batch	Party	Trade Party	Sustainability	Sustainability Assertion
Agro	Crop Production Process	Product	Colour Size Range	Sustainability	Sustainability Characteristic
Agro	Crop Protection Treatment	Product	Photographic Picture	Sustainability	Sustainability Inspection
Agro	Field Crop	Product	Product Batch	Sustainability	Toxicological Hazardous Material
Agro	Individual TT Animal	Product	Product Batch Characteristic	Traceability	Geographical Coordinate
Agro	Species TT Animal	Product	Product Batch Instance	Traceability	Geographical Feature
Geberic	Binary File	Product	Product Characteristic	Traceability	Geographical Object Characteristic
Geberic	Document Context Parameter	Product	Product Classification	Traceability	Logistics Location
Geberic	Exchanged Document	Product	Product Colour	Traceability	Referenced Location
Geberic	Exchanged Document Context	Product	Product Label	Traceability	Specified Direct Position
Generic	Note	Product	Product Print	Traceability	Specified Linear Ring

Subject	Information Entity	Subject	Information Entity	Subject	Information Entity
<i>Generic</i>	Period	<i>Product</i>	Referenced Product	<i>Traceability</i>	Specified Polygon
<i>Generic</i>	Referenced Document	<i>Product</i>	Spatial Dimensions	<i>Traceability</i>	Structured Address
<i>Generic</i>	Supply Chain Event	<i>Product</i>	Supply Chain Packaging	<i>Traceability</i>	Trade Address
<i>Inspection</i>	Conformance Certificate	<i>Product</i>	Technical Characteristic	<i>Traceability</i>	Trade Country
<i>Inspection</i>	Corrective Action	<i>Product</i>	Trade Allowance/Charge	<i>Traceability</i>	TT Aggregation Event
<i>Inspection</i>	Inspection Event	<i>Product</i>	Trade Product	<i>Traceability</i>	TT Animal
<i>Inspection</i>	Inspection Instructions	<i>Product</i>	Trade Product Certification	<i>Traceability</i>	TT Event Element
<i>Inspection</i>	Inspection Note	<i>Product</i>	Trade Product Group	<i>Traceability</i>	TT Location
<i>Inspection</i>	Inspection Person	<i>Product</i>	Trade Product Instance	<i>Traceability</i>	TT Object Event
<i>Inspection</i>	Inspection Reference	<i>Production</i>	Chemical Treatment	<i>Traceability</i>	TT Party
<i>Inspection</i>	Inspection Result Characteristic	<i>Production</i>	Calculated Emission	<i>Traceability</i>	TT Trade Transaction
<i>Inspection</i>	Inspection Status	<i>Production</i>	Complaint Issue	<i>Traceability</i>	TT Transaction Event
<i>Inspection</i>	Laboratory Observation Analysis Method	<i>Production</i>	Compliance Policy	<i>Traceability</i>	TT Transformation Event
<i>Inspection</i>	Laboratory Observation Contact	<i>Production</i>	Facility Production Unit	<i>Traceability</i>	Unstructured Address
<i>Inspection</i>	Laboratory Observation Instructions	<i>Production</i>	Job Report	<i>Transaction</i>	Supply Chain Trade Line Item
<i>Inspection</i>	Laboratory Observation Note	<i>Production</i>	Material Goods Characteristic	<i>Transaction</i>	Supply Chain Trade Transaction
<i>Inspection</i>	Laboratory Observation Party	<i>Production</i>	Process Characteristic	<i>Transport</i>	Header Trade Delivery
<i>Inspection</i>	Laboratory Observation Reference	<i>Production</i>	Product Finishing Treatment	<i>Transport</i>	Logistics Label
<i>Inspection</i>	Observation Objective Parameter	<i>Production</i>	Production Consumption	<i>Transport</i>	Logistics Shipping Marks
<i>Inspection</i>	Organization Certificate	<i>Production</i>	Production Cycle	<i>Transport</i>	Logistics Transport Means
<i>Inspection</i>	Organization Certification	<i>Production</i>	Production Device	<i>Transport</i>	Logistics Transport Movement
<i>Inspection</i>	Preventive Action	<i>Production</i>	Production Facility	<i>Transport</i>	Packaging Instructions
<i>Inspection</i>	Process Certificate	<i>Production</i>	Production Machine	<i>Transport</i>	Packaging Marking
<i>Inspection</i>	Process Certification	<i>Production</i>	Production Process	<i>Transport</i>	Supply Chain Consignment
<i>Inspection</i>	Product Batch Certification	<i>Production</i>	Specified Fault	<i>Transport</i>	Supply Chain Consignment Item
<i>Inspection</i>	Product Certificate	<i>Production</i>	Specified Material	<i>Transport</i>	Transport Cargo
<i>Inspection</i>	Sample Observation Result	<i>Production</i>	Specified Method	<i>Transport</i>	Transport Event
<i>Inspection</i>	Sample Observation Result Characteristic	<i>Production</i>	Specified Method	<i>Transport</i>	Transport Route
<i>Inspection</i>	Specified Action	<i>Production</i>	Specified Parameter	<i>Transport</i>	Transport Service

Subject	Information Entity	Subject	Information Entity	Subject	Information Entity
<i>Inspection</i>	Specified Inspection	<i>Production</i>	Specified Range	<i>Transport</i>	Transport Waste Component
<i>Inspection</i>	Specified Inspection Result	<i>Sustainability</i>	Supply Chain Inventory	<i>Transport</i>	Transport Waste Material
<i>Party</i>	Communication	<i>Sustainability</i>	Supply Chain Schedule	<i>Transport</i>	Transport Waste Recovery Disposal Process
<i>Party</i>	Contact Person	<i>Sustainability</i>	Trade Price		
<i>Party</i>	Government Registration	<i>Sustainability</i>	Disposal Instructions		

Internal Review

8 Definition of Terms

The list of terms and their definitions is documented in separate document.

Internal Review

9 Annex I. RDM Business Information Entities

The list below contains business information entities including their attributes and associations.

Explanation.

- Short Name column: user friendly name compared to technical name (dictionary entry name).
- Definition column: definition of the information entity.
- Min column: value 0 is optional
- Max column: 1 or unbounded.

Note: The names of the information entities are so called short names instead of the technical dictionary entry names as used within the UN/CCL and published subsets.

Type	Short Name	Definition	Min	Max
Entity	Agricultural Zone Area	A named, delimited and identified part of a land and or water surface of the globe subject to dedicated uniform agricultural treatment.		
Attr.	ID	The identifier for this agricultural zone area.	1	1
Attr.	Name	The name, expressed as text, for this agricultural zone area.	0	1
Attr.	Third Party Issued ID	An identifier issued by a third party for this agricultural zone area.	0	unbounded
Attr.	Designated Section Text	The designated section, expressed as text, of this agricultural zone area.	0	1
Attr.	Multi Surface Type Code	The code specifying the multi-surface type for this agricultural zone area.	0	1
Assoc.	Agricultural Characteristic	An agricultural characteristic applicable to this agricultural zone area.	0	unbounded
Assoc.	Referenced Location	The referenced location specified for this agricultural zone area.	0	1
Assoc.	Subordinate Agricultural Zone Area	An agricultural zone area subordinate to this agricultural zone area.	0	unbounded
Assoc.	Harvested Crop Produce	Crop produce harvested from this agricultural zone area.	0	unbounded
Assoc.	Agricultural Application	A specified agricultural application applied to this agricultural zone area.	0	unbounded
Assoc.	Crop Plot	A crop plot specified for this agricultural zone area.	0	unbounded
Entity	Agricultural Certificate	A legal proof of ownership, worthiness or qualification to operate an agricultural item.		
Attr.	ID	The identifier for this agricultural certificate.	0	1
Attr.	Issue Date Time	The date, time, date time, or other date time value when this agricultural certificate was issued.	0	1
Attr.	Expiry Date Time	The date, time, date time, or other date time value when this agricultural certificate expires.	0	1
Attr.	Issue Reason Code	The code specifying the reason why the agricultural certificate was issued.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Type Code	The code specifying the type of agricultural certificate.	0	1
Attr.	Requested Effective Date Time	The requested effective date, time, date time or other date time value for this agricultural certificate.	0	1
Attr.	Actual Effective Date Time	The actual effective date, time, date time or other date time value for this agricultural certificate.	0	1
Attr.	Description	The textual description of this agricultural certificate.	0	1
Attr.	Applicable Object Code	A code specifying an applicable object, such as item, animal, person or organization, for this agricultural certificate.	0	unbounded
Attr.	Issuing Party ID	The identifier for the issuing party of this agricultural certificate.	0	1
Attr.	Purpose Code	A code specifying the purpose of this agricultural certificate.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this agricultural certificate.	0	unbounded
Assoc.	Organization Characteristic	A paganization characteristic applicable for this agricultural certificate.	0	unbounded
Assoc.	Attached Binary File	An attached binary file for this agricultural certificate.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion applicable for this agricultural certificate.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this agricultural certificate	0	unbounded
Entity	Agricultural Characteristic	A prominent attribute or aspect of an agricultural object.		
Attr.	ID	The identifier for this agricultural characteristic.	0	1
Attr.	Type Code	The code specifying the type of agricultural characteristic.	0	1
Attr.	Description	The textual description of this agricultural characteristic.	0	1
Attr.	Value Measure	The measure of a value for this agricultural characteristic.	0	1
Attr.	Value Text	The value, expressed as text, for this agricultural characteristic.	0	1
Attr.	Value Code	The code specifying the value of this agricultural characteristic.	0	1
Attr.	Value Date Time	The value, expressed as a date, time, date time, or other date time value, of this agricultural characteristic.	0	1
Attr.	Value Indicator	The value, expressed as an indicator, for this agricultural characteristic.	0	1
Assoc.	Value Specified Range	A range specified for the value of this agricultural characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A parameter specified for the value of this agricultural characteristic.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this agricultural characteristic.	0	unbounded
Entity	Animal Certificate	A collection of data for a piece of written, printed or electronic matter that provides information or evidence about the identity of an animal or a batch of animals.		
Attr.	ID	The identifier for this animal certificate.	1	1
Attr.	Type Code	The code specifying the type of animal certificate.	1	1
Entity	Calculated Emission	A calculation of the pollution (including noise, heat, and radiation etc.) discharged into the environment by a residential, commercial, or industrial facility or by a means of transport, such as a vessel, aircraft or truck.		
Attr.	Type Code	The code specifying the type of this calculated emission.	0	1
Attr.	Affected Distance Measure	The affected distance over which this calculated emission is measured.	0	1
Attr.	Weight	A weight for which this calculated emission is measured.	0	unbounded
Attr.	Pollution Measure	A measure of the pollution calculated for this emission.	0	unbounded
Entity	Colour Size Range	The relation between colour and size of an object.		
Attr.	ID	An identifier for this colour size range.	0	unbounded
Attr.	Name	The name, expressed as text, for this colour size range.	0	1
Attr.	Colour Code	The code specifying the colour for this colour size range.	0	1
Attr.	Colour	A colour, expressed as text, for this colour range.	0	unbounded
Attr.	Colour System Code	The code specifying the colour system for this colour size range.	0	1
Attr.	Market Segment Code	The code specifying the market segment for this colour size range.	0	1
Assoc.	Product	A trade product specified for this colour and size combination range.	0	unbounded
Assoc.	Size Range	A range specified for the size in this colour and size combination range.	0	unbounded
Entity	Compliance Policy	A plan of action agreed or chosen such as by a political party, a business in order to obey rules or requests made by people in authority.		
Attr.	ID	An identifier for this compliance policy.	0	unbounded
Attr.	Description	A textual description of this compliance policy.	0	unbounded
Assoc.	Referenced Standard	A referenced standard related to this compliance policy.	0	unbounded
Entity	Conformance Certificate	The label delivered by a trusted third party to assess the compliance of a product or a service with an agreed standard.		

Type	Short Name	Definition	Min	Max
Attr.	ID	The unique identifier of this conformance certificate.	0	1
Attr.	Type Code	The code specifying the type of conformance certificate.	0	1
Attr.	Software Operating System Text	The software operating system, expressed as text, for which this conformance certificate is produced.	0	1
Attr.	Issue Date Time	The date, time, date time, or other date time value when this conformance certificate was issued.	0	1
Entity	Contact Person	An individual human being in a position to give assistance or information.		
Attr.	Title	The textual expression of the title associated with this contact person, such as Doctor.	0	1
Attr.	Given Name	The name, expressed as text, given to this contact person, usually by parents at birth.	0	1
Attr.	Middle Name	The middle name, expressed as text, of this contact person, usually given by parents at birth.	0	1
Attr.	Family Name Prefix	The prefix, expressed as text, that precedes this contact person's family name, such as Van, Von.	0	1
Attr.	Family Name	The name, expressed as text, that this contact person shares with members of his/her family.	0	1
Attr.	Name Suffix	The suffix, expressed as text, that follows this contact person's name, such as Junior, Third.	0	1
Attr.	Gender Code	The code specifying the gender of this contact person.	0	1
Attr.	Alias	The alias, expressed as text, reflecting a shortened form of the name of this person or any other name such as a nickname by which this contact person may be known.	0	1
Attr.	Birth Date Time	The date, time, date time or other date time value which specifies the birth date for this contact person.	0	1
Attr.	Birthplace Name	The name of the place where this contact person was born, expressed as text.	0	1
Attr.	Title Code	The code specifying the title of this contact person, such as Ms., Doctor, Mister.	0	1
Attr.	Role Text	A role, expressed as text, for this contact person.	0	unbounded
Attr.	Residence Country Code	The identifier of the residence country of this contact person.	0	1
Assoc.	Specified Tax Registration	A tax registration specified for this contact person.	0	unbounded
Assoc.	Telephone	Telephone communication information for this contact person.	0	unbounded
Assoc.	Fax	Facsimile communication information for this contact person.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Email	An email Uniform Resource Identifier (URI) communication for this contact person.	0	unbounded
Assoc.	Website	A website Uniform Resource Identifier (URI) communication for this contact person.	0	unbounded
Assoc.	Instant Messaging	An instant messaging communication specified for this contact person.	0	unbounded
Entity	Corrective Action	Improvements to an organization's processes or products taken to eliminate causes of non-conformities or other undesirable situations.		
Attr.	Type Code	The code specifying the type of corrective action.	0	1
Attr.	Type Text	A type, expressed as text, for this corrective action.	0	unbounded
Attr.	Description	A textual description for this corrective action.	0	unbounded
Entity	Crop Produce Batch	A group of crop produce considered or dealt with together.		
Attr.	ID	The identifier for this crop produce batch.	0	1
Attr.	Creation Date Time	The date, time, date time, or other date time value of the creation of this crop produce batch.	0	1
Attr.	Break Up Date Time	The date, time, date time, or other date time value of the break up of this crop produce batch.	0	1
Attr.	Product Name	The product name, expressed as text, for this crop produce batch.	0	1
Attr.	Type Code	The code specifying the type of crop produce batch.	0	1
Attr.	Size Measure	The size, expressed as a measure, for this crop produce batch.	0	1
Attr.	Number Of Units	The number of units, expressed as a quantity, for this crop produce batch.	0	1
Attr.	Quantity	The quantity specified for this crop produce batch.	0	1
Attr.	Nominal Size Numeric	The value of the nominal size for this crop produce batch.	0	1
Attr.	Applied Treatment Text	A treatment, expressed as text, applied to this crop produce batch.	0	unbounded
Assoc.	Agricultural Characteristic	An agricultural characteristic specified for this crop produce batch.	0	unbounded
Assoc.	Agricultural Certificate	An agricultural certificate specified for this crop produce batch.	0	unbounded
Assoc.	Crop Produce	A crop produce specified for this crop produce batch.	0	unbounded
Entity	Crop Production Process	A practice of cultivating land, raising crops, or treatment of the agricultural produce.		
Attr.	Type Code	The code specifying the type of agricultural process for this crop production.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type of the agricultural process for this crop production.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Earliest Start Date Time	The date, time, date time or other date time value for the earliest start of the crop production in this agricultural process.	0	1
Attr.	Actual Start Date Time	The date, time, date time or other date time value for the actual start of the crop production in this agricultural process.	0	1
Attr.	Latest End Date Time	The date, time, date time or other date time value of the latest end for the crop production in this agricultural process.	0	1
Attr.	Actual End Date Time	The date, time, date time or other date time value of the actual end for the crop production in this agricultural process.	0	1
Attr.	Status Code	The code specifying the status of the agricultural process for this crop production.	0	1
Attr.	Description	The textual description of the agricultural process for this crop production.	0	1
Assoc.	Harvested Crop Produce Batch	A crop produce batch harvested in the crop production for this agricultural process.	0	unbounded
Assoc.	Applied Agricultural Application	An agricultural application applied to a crop production agricultural process.	0	unbounded
Assoc.	Field Crop	A field crop specified for this crop production agricultural process.	0	unbounded
Entity	Crop Plot	A small piece of land or water used for a crop such as an agricultural or aquacultural crop.		
Attr.	ID	The identifier for this crop plot.	1	1
Attr.	Start Date Time	The date, time, date time, or other date time value for the start of this crop plot.	0	1
Attr.	End Date Time	The date, time, date time, or other date time value for the end of this crop plot.	0	1
Attr.	Area Measure	The area measure for this crop plot.	0	1
Attr.	Regulatory Soil Type Code	The code specifying the type of regulatory soil for this crop plot.	0	1
Attr.	Regulatory Organic Indicator	The indication of whether or not this crop plot is certified as regulatory organic.	0	1
Assoc.	Agricultural Characteristic	An agricultural characteristic specified for this crop plot.	0	unbounded
Assoc.	Agricultural Zone Area	An agricultural zone area specified for this crop plot.	0	unbounded
Assoc.	Crop Plot	A crop plot included in this crop plot.	0	unbounded
Assoc.	Referenced Location	The referenced location specified for this crop plot.	0	1
Assoc.	Agricultural Certificate	An agricultural certificate specified for this crop plot.	0	unbounded
Assoc.	Grown Field Crop	A field crop grown on this crop plot.	0	unbounded
Assoc.	Crop Production Process	An agricultural process crop production specified for this crop plot.	0	unbounded
Assoc.	Agricultural Application	A specified agricultural application applied to this crop plot.	0	unbounded
Entity	Crop Produce	Agricultural plants or plant products grown and harvested, such as grain, fruit, vegetables, silage.		

Type	Short Name	Definition	Min	Max
Attr.	ID	An identifier for this crop produce.	0	unbounded
Attr.	Type Code	The code specifying the type of crop produce.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type of crop produce, such as product or by-product.	0	1
Attr.	Name	The name, expressed as text, for this crop produce.	0	1
Attr.	Calculated Yield	A measure of the calculated yield of this crop produce, such as weight per surface area unit.	0	unbounded
Attr.	Estimated Yield	A measure of the estimated yield of this crop produce, such as weight per surface area unit.	0	unbounded
Assoc.	Input Batch Crop Produce	An input batch crop produce, such as seed or fertilizer, specified for this crop produce.	0	unbounded
Assoc.	Output Batch Crop Produce	An output batch crop produce, such as potatoes, grain, straw, specified for this crop produce.	1	unbounded
Entity	Disposal Instructions	A set of instructions detailing how to properly dispose of a material.		
Attr.	Handling Text	The handling, expressed as text, in this set of disposal instructions.	0	1
Attr.	RCRA Handling Text	The Resource Conservation and Recovery Act (RCRA) handling, expressed as text, in this set of disposal instructions.	0	1
Attr.	Material ID	The identifier of the material to which these disposal instructions apply.	0	1
Attr.	Recycling Description Code	A code describing recycling in these disposal instructions.	0	unbounded
Attr.	Description	A textual description of these disposal instructions.	0	unbounded
Attr.	Recycling Procedure Text	A recycling procedure, expressed as text, for these disposal instructions.	0	unbounded
Entity	Distinct Chemical	Any clearly defined substance having a defined molecular composition.		
Attr.	Scientific Name	The scientific name, expressed as text, for this distinct chemical.	0	1
Attr.	Common Name	A common name, expressed as text, for this distinct chemical.	0	unbounded
Attr.	Synonym Name	A synonym name, expressed as text, for this distinct chemical.	0	unbounded
Attr.	Family Name	The family name expressed as text for this distinct chemical.	0	1
Attr.	Molecular Weight	The measure of the molecular weight (in grams) for this distinct chemical.	0	1
Attr.	Type Code	The code specifying the type of distinct chemical.	0	1
Attr.	Formula Description	The textual description of the formula for this distinct chemical.	0	1
Attr.	ID	An identifier of this distinct chemical.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Weight	A weight, expressed as a measure, for this distinct chemical.	0	unbounded
Attr.	Mass	A measure of the mass of this distinct chemical.	0	unbounded
Attr.	Mass Ratio	A mass measure of this distinct chemical expressed as a ratio to another mass, such as the total mass.	0	unbounded
Attr.	Volume	A measure of the volume of this distinct chemical.	0	unbounded
Attr.	Volume Ratio	A volume measure of this distinct chemical expressed as a ratio to another volume, such as the total volume.	0	unbounded
Attr.	Presence Percent	The percentage of the presence of the chemical in this distinct chemical.	0	1
Assoc.	Ingredient Range Presence Measurement	A measurement of the range of the presence of an ingredient in this distinct chemical.	0	2
Assoc.	Applicable Toxicological Hazardous Material	An applicable toxicological hazardous material for this distinct chemical.	0	2
Assoc.	Product Certificate	A product certificate specified for this distinct chemical.	0	unbounded
Assoc.	Product Characteristic	A product characteristic applicable for this distinct chemical.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this distinct chemical.	0	unbounded
Entity	Document Context Parameter	A feature that is fixed for a particular document context.		
Attr.	ID	The unique identifier of this document context parameter.	0	1
Entity	Exchanged Document Context	The scenario or setting of an exchanged document, such as its business process application context.		
Assoc.	Business Process	A business process context parameter specified for this exchanged document context.	0	unbounded
Assoc.	Guideline	A guideline context parameter specified for this exchanged document context.	0	unbounded
Entity	Exchanged Document	A collection of data for a piece of written, printed or electronic matter that is exchanged between two or more parties.		
Attr.	ID	The unique identifier of this exchanged document.	0	1
Attr.	Name	A name, expressed as text, of this exchanged document.	0	unbounded
Attr.	Type Code	The code specifying the type of exchanged document.	0	1
Attr.	Status Code	The code specifying the status of this exchanged document.	0	1
Attr.	Language Code	A unique identifier for a language used in this exchanged document.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Issue Date Time	The date, time, date time or other date time value for the issuance of this exchanged document.	0	1
Assoc.	Sender	The party that sends this exchanged document.	0	1
Assoc.	Recipient	A trade party that receives this exchanged document.	0	unbounded
Entity	Facility Production Unit	A defined set of production utilities under a single management of a facility.		
Attr.	ID	An identifier for this facility production unit.	0	unbounded
Attr.	Global ID	The global identifier for this facility production unit.	0	1
Attr.	Type Code	The code specifying the type of facility production unit.	0	1
Attr.	Name	The name, expressed as text, for this facility production unit.	0	1
Attr.	Description	The textual description of this production unit.	0	1
Attr.	Name	The name, expressed as text, for this facility production unit.	0	1
Attr.	Construction Date	The date value of the construction of this facility production unit.	0	1
Attr.	Completion Date	The date value of the completion of this facility production unit.	0	1
Assoc.	Dedicated Production Facility	A dedicated production facility for this production unit.	0	unbounded
Assoc.	Input Product Batch	An input batch of products for this facility production unit.	0	unbounded
Assoc.	Input Product	An input trade product for this facility production unit.	0	unbounded
Assoc.	Input Material	An input material for this facility production unit.	0	unbounded
Assoc.	Output Product Batch	An output product batch of this facility production unit.	0	unbounded
Assoc.	Output Product	An output trade product of this facility production unit.	0	unbounded
Assoc.	Output Material	An output trade product of this facility production unit.	0	unbounded
Assoc.	Referenced Location	The location specified for this facility production unit.	0	1
Assoc.	Related Party	A party related to this facility production unit.	0	unbounded
Assoc.	Subcontractor	A subcontractor party for this facility production unit.	0	unbounded
Assoc.	Manufacturer	A manufacturer related to this facility production unit.	0	unbounded
Assoc.	Production Process	A process process specified for this facility production unit.	0	unbounded
Assoc.	Product Batch Certificate	A product batch certificate specified for this facility production unit.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this facility production unit.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Product Certificate	A product certificate specified for this facility production unit.	0	unbounded
Assoc.	Organization Certificate	An organization certificate specified for this facility production unit.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic specified for this facility production unit.	0	unbounded
Assoc.	Production Machine	A production machine applicable for this facility production unit.	0	unbounded
Assoc.	Production Device	A production device applicable for this facility production unit.	0	unbounded
Assoc.	Included Facility Production Unit	A production unit included in this facility production unit.	0	unbounded
Entity	Field Crop	A field with one or more cultivated plants or produce from one or more botanical species or varieties.		
Attr.	Sowing Period Code	The code specifying the sowing period for this field crop, such as spring or winter.	0	1
Attr.	Purpose Code	A code specifying a purpose for this field crop.	0	unbounded
Attr.	Planting Reason Code	A code specifying a reason for planting this field crop.	0	unbounded
Attr.	Description	The textual description for this field crop.	0	1
Attr.	Classification Code	A code specifying a classification for this field crop.	0	unbounded
Attr.	Cultivation Type Code	The code specifying the type of cultivation for this field crop.	0	1
Attr.	Propagation Material Indicator	The indication of whether or not a field crop is to be used as propagation material.	0	1
Attr.	Cultivation Coverage Code	A code specifying a type of cultivation coverage, such as glass, for this field crop.	0	unbounded
Attr.	Cultivation Medium Code	The code specifying the type of cultivation medium, such as substrate, for this field crop.	0	1
Attr.	Cultivation Container Code	The code specifying the type of cultivation container, such as a pot or an iron cabinet, for this field crop.	0	1
Attr.	Harvest Date Time	The date, time, date time, or other date time value for the harvest of this field crop.	0	1
Attr.	Class Name	The class name, expressed as a text, for this field crop.	0	1
Attr.	Production Period Code	The code specifying the production period for this field crop.	0	1
Attr.	Production Environment Code	The code specifying the production environment for this field crop.	0	1
Entity	Geographical Coordinate	A set of geographical coordinates of a specific point such as the longitude, latitude and altitude.		
Attr.	Altitude	The measure of the altitude that reflects the vertical elevation of an object above a surface for this geographical coordinate (Reference ISO 6709).	0	1

Type	Short Name	Definition	Min	Max
Attr.	Latitude	The measure of the latitude as an angular distance north or south from the Equator meridian to the meridian of a specific place for this geographical coordinate (Reference ISO 6709).	0	1
Attr.	Longitude	The measure of the longitude as an angular distance east or west from the Greenwich meridian to the meridian of a specific place (Reference ISO 6709).	0	1
Attr.	Latitude Direction Indicator	The indication of whether the latitude compass direction from the Equator meridian to the meridian of a specific place is North (+) or South (-) (Reference ISO 6709).	0	1
Attr.	Longitude Direction Indicator	The indication of whether the longitude as a compass direction from the Greenwich meridian to the meridian of a specific place is East (+) or West (-) for this geographical coordinate (Reference ISO 6709).	0	1
Attr.	System ID	The unique identifier of the reference system used for measuring a geographical coordinate.	0	1
Entity	Government Registration	The recording of items or details for a governmental purpose.		
Attr.	ID	An identifier for this government registration.	0	unbounded
Attr.	Version ID	The identifier of the version of this government registration.	0	1
Attr.	Type Code	A code specifying a type of government registration.	0	unbounded
Attr.	Category Code	A code specifying a category of this government registration.	0	unbounded
Attr.	Licence ID	The identifier of a licence for this government registration.	0	1
Attr.	Recorded Date	The date that this government registration was recorded.	0	1
Attr.	Last Registered Year	The last registered year of this government registration.	0	1
Attr.	Country Code	The identifier of the country for this government registration.	0	1
Attr.	Country Sub-Division Code	The identifier of the country sub-division for this registration.	0	1
Entity	Header Trade Delivery	Shipping arrangements and movement of products and or services including despatch and delivery at a header level.		
Attr.	ID	The identifier, at header level, for this trade delivery.	0	1
Assoc.	Related Consignment	A consignment, at header level, related to this trade delivery.	0	unbounded
Assoc.	Actual Despatch Event	An actual despatch event, at header level, for this trade delivery.	0	unbounded
Assoc.	Actual Delivery Event	An actual delivery event, at header level, for this trade delivery.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Supply Chain Event	A supply chain event, at header level, specified for this trade delivery.	0	unbounded
Assoc.	Ship From Party	The ship from party, at header level, for this trade delivery.	0	1
Assoc.	Ship To Party	The ship to party, at header level, for this trade delivery.	0	1
Assoc.	Final Destination Country	The country of final destination, at header level, for this header trade delivery.	0	1
Assoc.	Disposal Party	A disposal party, at header level, for this trade delivery.	0	unbounded
Assoc.	Supply Chain Schedule	A supply chain schedule, at header level, specified for this trade delivery.	0	unbounded
Assoc.	Packing List Document	The referenced packing list document, at header level, for this trade delivery.	0	1
Assoc.	Classification Document	The referenced classification document, at header level, for this trade delivery.	0	1
Assoc.	Related Party	A trade party, at header level, related to this trade delivery.	0	unbounded
Entity	Individual TT Animal	A Track and Trace (TT) animal, such as one kept or raised on a farm, ranch.		
Attr.	ID	The identifier for this TT animal, such as the number appearing on an animal ear tag.	1	1
Attr.	Birth Date Time	The birth date for this individual TT animal.	1	1
Attr.	Death Date Time	The death date for this individual TT animal.	1	1
Entity	Ingredient Range Measurement	A measurement of the variation limits of an ingredient.		
Attr.	Lower Limit Comparison Operator Code	The code specifying the comparison operator for the lower limit of this ingredient range measurement.	1	1
Attr.	Upper Limit Comparison Operator Code	The code specifying the comparison operator for the upper limit of this ingredient range measurement.	0	1
Attr.	Lower Limit Actual Measure	The actual lower limit measure of this ingredient range measurement.	1	1
Attr.	Upper Limit Actual Measure	The actual upper limit measure of this ingredient range measurement.	0	1
Attr.	Lower Limit Pressure Condition Measure	The measure of the pressure condition at which this lower limit ingredient range measurement is taken.	0	1
Attr.	Upper Limit Pressure Condition Measure	The measure of the pressure condition at which this upper limit ingredient range measurement is taken.	0	1
Attr.	Description	The textual description of this ingredient range measurement.	0	1
Entity	Inspection Result Characteristic	Specifies the type of a performed examination and the acquired values.		
Attr.	Method Parameter ID	The identifier of the method parameter for this inspection result characteristic.	0	1
Attr.	Parameter Value Text	The parameter value, expressed as text, for this inspection result characteristic.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Comparison Operator Code	The code specifying the operator, such as less than, greater than or equal to, for comparing the measured value for this inspection result characteristic.	0	1
Attr.	Measured Value Measure	The measured value, expressed as a measure, for this inspection result characteristic.	0	1
Attr.	Measured Value Text	The measured value, expressed as text, for this inspection result characteristic.	0	1
Attr.	Range Text	The range, expressed as text, of the values of the measurements performed for this inspection result characteristic.	0	1
Attr.	Measured Accuracy Measure	Accuracy, expressed as a measure, of the measurement for this inspection result characteristic.	0	1
Attr.	Quality Result Code	The code specifying the quality of the result for this inspection result characteristic.	0	1
Attr.	Quality Result Description	The textual description of the quality of the result for this inspection result characteristic.	0	1
Attr.	Reference Level Quality Result Description	The textual description of the reference level for the quality of the result for this inspection result characteristic.	0	1
Assoc.	Observation Objective Parameter	An applicable observation objective parameter of the interpretation result for this inspection result characteristic.	0	unbounded
Entity	Inspection Event	A significant occurrence or happening related to an inspection.		
Attr.	Occurrence Date Time	The date, time, date time, or other date time value of the occurrence of this inspection event.	0	1
Attr.	Type Code	The code specifying the type of inspection for this event.	0	1
Attr.	Description	A textual description of the inspection for this event.	0	unbounded
Assoc.	Occurrence Referenced Location	The referenced location where this inspection event will occur or has occurred.	1	1
Entity	Inspection Instructions	Information of an instructive nature that describes how to conduct this inspection.		
Attr.	ID	An identifier for this set of inspection instructions.	0	unbounded
Attr.	Description	A textual description of this set of inspection instructions.	0	unbounded
Attr.	Type	A type, expressed as text, of this set of inspection instructions.	0	unbounded
Attr.	Description Code	The code specifying a description of an inspection instruction or a set of instructions.	0	1
Attr.	Procedure	A procedure, expressed as text, for a set of inspection instructions.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Latest Update Date Time	The date, time, date time, or other date time value of the latest update of this set of inspection instructions.	0	1
Attr.	Status Code	The code specifying the status of this set of inspection instructions.	0	1
Attr.	Sequence Number	The sequence number of this set of inspection instructions.	0	1
Attr.	Property Reference Code	The code specifying the property reference of this inspection.	0	1
Attr.	Interpretation Code	The code specifying the interpretation for this inspection instruction.	0	1
Entity	Inspection Note	Notes and conclusions related to an inspection.		
Attr.	Content	A content, expressed as text, of this inspection note.	0	unbounded
Attr.	Creation Date Time	The date, time, date time, or other date time value for the creation of this inspection note.	0	1
Entity	Inspection Person	An individual human being who conducts an inspection.		
Attr.	Name	The name or set of names, expressed as text, by which this inspection person is known.	1	1
Entity	Inspection Reference	The direction to related information for this inspection.		
Attr.	ID	An identifier for this inspection reference.	0	unbounded
Attr.	Abbreviation	The shortened text string to identify this inspection reference.	0	1
Attr.	Description	A textual description of this inspection reference.	0	unbounded
Attr.	Status	A status, expressed as text, for this inspection reference.	0	unbounded
Attr.	Comment	A comment, expressed as text, for this inspection reference.	0	unbounded
Attr.	Value	A value, expressed as text, for this inspection reference.	0	unbounded
Attr.	Property Reference Code	The code specifying the property reference of this inspection reference.	0	1
Attr.	Value Code	The value, expressed as a code, for this inspection reference.	0	1
Entity	Inspection Status	The information relevant to a condition related to an inspection.		
Attr.	Condition Code	The code specifying this inspection status condition.	0	1
Attr.	Description	A textual description of this inspection status.	0	unbounded
Entity	Laboratory Observation Analysis Method	A defined way of performing laboratory observation analysis.		
Attr.	Name	The name, expressed as text, for this laboratory observation analysis method.	0	1
Attr.	Obligatory Type Code	The code specifying the type of analysis method obligatory for the laboratory observation.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Standard Type Code	The code specifying the type of laboratory observation analysis method, which is the standard method of the observer party for the kind of observation, such as a Logical Observation Identifiers Names and Codes (LOINC) code and method.	0	1
Attr.	Local Type Code	The code specifying the type of laboratory observation analysis method, which is the local method of the observer party for the kind of observation.	0	1
Attr.	External Reference Text	The external reference, expressed as text, for this laboratory observation analysis method.	0	1
Attr.	Information	Information, expressed as text, for this laboratory observation analysis method.	0	1
Attr.	Sampled Object Minimum Required Size	The measure of the minimum object size required for this laboratory observation analysis method.	0	1
Attr.	Type Code	The code specifying the type of certification for this laboratory observation analysis method.	0	1
Attr.	Certification ID	The identifier for the certificate granted to a party for this laboratory observation analysis method.	0	1
Attr.	ID	The identifier for this laboratory observation analysis method.	0	1
Entity	Laboratory Observation Contact	A person or department that acts as a point of contact for laboratory observations.		
Attr.	ID	The identifier of this laboratory observation contact.	1	1
Attr.	Person Name	The name, expressed as text, of the person for this laboratory observation contact.	0	1
Attr.	Department Name	The name, expressed as text, of the department to which this laboratory observation contact belongs.	0	1
Assoc.	Mobile Telephone	The mobile phone number of the laboratory observation contact.	0	1
Assoc.	Telephone	The telephone number of the laboratory observation contact.	0	1
Assoc.	Fax	The fax number of the laboratory observation contact.	0	1
Assoc.	Email Address	The email address of the laboratory observation contact.	0	1
Entity	Laboratory Observation Instructions	Information of an instructive nature that describes how to conduct this laboratory observation.		
Attr.	ID	The identifier for this set of laboratory observation instructions.	0	1
Attr.	Description	The textual description of this set of laboratory observation instructions.	0	1
Attr.	Type Text	The type, expressed as text, of this set of laboratory observation instructions.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Description Code	The code specifying a description of a laboratory observation instruction or a set of instructions.	0	1
Attr.	Procedure Text	The procedure, expressed as text, for a set of laboratory observation instructions.	0	1
Attr.	Latest Update Date Time	The date, time, date time, or other date time value of the latest update of this set of laboratory observation instructions.	0	1
Attr.	Status Code	The code specifying the status of this set of laboratory observation instructions.	0	1
Attr.	Sequence Number	The sequence number of this set of laboratory observation instructions.	0	1
Attr.	Property Reference Code	The code specifying the property reference of this laboratory observation instruction.	0	1
Attr.	Interpretation Code	The code specifying the interpretation for this laboratory instruction.	0	1
Entity	Laboratory Observation Note	Notes and conclusions related to a laboratory observation.		
Attr.	Content Text	The content, expressed as text, of this laboratory observation note.	1	1
Attr.	Creation Date Time	The date, time, date time, or other date time value for the creation of this laboratory observation note.	1	1
Entity	Laboratory Observation Party	An individual, group, or body having a role in laboratory observations.		
Attr.	ID	The identifier of this laboratory observation party.	1	1
Attr.	Name	The name, expressed as text, of this laboratory observation party.	0	1
Attr.	Third Party Issued ID	An alternate identifier issued by a third party for this laboratory observation party.	0	unbounded
Attr.	Third Party Issued Identification Text	A third party issued identifier, expressed as text, for this laboratory observation party.	0	unbounded
Assoc.	Office Address	The office address of this laboratory observation party.	0	1
Assoc.	Postal Address	The postal address of this laboratory observation party.	0	1
Assoc.	Website	The website Uniform Resource Identifier (URI) of this laboratory observation party.	0	1
Assoc.	Contact Person	The person defined as the contact for this laboratory observation party.	0	1
Entity	Laboratory Observation Reference	The direction to related information for this laboratory observation.		
Attr.	ID	The identifier for this laboratory observation reference.	0	1
Attr.	Abbreviation	The shortened text string to identify this laboratory observation reference.	0	1
Attr.	Description	The textual description of this laboratory observation reference.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Status Text	The status, expressed as text, for this laboratory observation reference.	0	1
Attr.	Comment Text	The comment, expressed as text, for this laboratory observation reference.	0	1
Attr.	Value Text	The value, expressed as text, for this laboratory observation reference.	0	1
Attr.	Property Reference Code	The code specifying the property reference of this laboratory observation reference.	0	1
Attr.	Value Code	The value, expressed as a code, for this laboratory observation reference.	0	1
Entity	Legal Organization	An organization set up on a legal basis as a business, government body, department, charity, or financial institution.		
Attr.	Business Type Code	A code specifying the type of business of this legally set up organization.	0	unbounded
Attr.	Legal Classification Code	The code specifying the legal classification of this organization, such as Incorporated (Inc), Limited Liability Corporation (LLC) or non-profit.	0	1
Attr.	Name	A name, expressed as text, of this legally set up organization.	0	unbounded
Attr.	ID	A unique identifier for this legally set up organization.	0	unbounded
Attr.	District ID	A unique identifier of the district area regarded as a geographic or administrative unit within which this legally set up organization operates.	0	unbounded
Attr.	Type Code	A code specifying a type of legally set up organization.	0	unbounded
Attr.	Established Date Time	The date, time, date time, or other date time value when this legally set up organization was established.	0	1
Attr.	Trading Name	The trading business name, expressed as text, of this legally set up organization.	0	1
Assoc.	Postal Address	A postal address for this legally set up organization.	0	unbounded
Assoc.	Authorized Registration	A legal registration authorized for this legally set up organization.	0	unbounded
Entity	Legal Registration	The recording of items or details for a specific legal purpose.		
Attr.	Type Code	A code specifying the type of this legal registration.	0	unbounded
Attr.	Recorded Date	A date when this legal registration was recorded.	0	unbounded
Attr.	ID	A unique identifier for this legal registration.	0	unbounded
Attr.	Country Sub-Division Code	A unique identifier of the country sub-division for this legal registration.	0	unbounded
Attr.	Category Code	A code specifying the category of this legal registration.	0	unbounded
Attr.	Country Code	An identifier of the country in which this legal registration is valid.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Licence ID	The unique identifier of a licence for this legal registration.	0	1
Attr.	Last Registered Year	The last year in which this legal registration was registered.	0	1
Entity	Logistics Label	A label used for identifying goods for logistics purposes, such as a barcode, a radio frequency tag or a Vehicle Identification Number (VIN).		
Attr.	ID	The unique identifier of this logistics label.	0	1
Attr.	Series Start ID	The unique identifier of the start of a series of logistics labels.	0	1
Attr.	Series End ID	The unique identifier of the end of a series of logistics labels.	0	1
Attr.	Layout Type Code	The code specifying the layout type of this logistics label.	0	1
Attr.	Size Code	The code specifying the size of this logistics label.	0	1
Entity	Logistics Location	A logistics related physical location or place.		
Attr.	ID	A unique identifier for this logistics related location, such as a United Nations Location Code (UNLOCODE) or GS1 Global Location Number (GLN).	0	unbounded
Attr.	Name	A name, expressed as text, of this logistics related location.	0	unbounded
Attr.	Type Code	A code specifying the type of this logistics related location.	0	unbounded
Attr.	Description	A textual description of this logistics related location.	0	unbounded
Attr.	UTC Offset Numeric	The time offset value from the Universal Time Coordinate (UTC) for this logistics related location.	0	1
Attr.	Country Name	The country name, expressed as text, of this logistics location.	0	1
Attr.	Country Code	The unique identifier of a country for this logistics location.	0	1
Attr.	Country Sub-Division ID	The identifier of the country sub-division for this logistics related location.	0	1
Assoc.	Geographical Coordinates	Geographical coordinate information for this logistics related location.	0	1
Assoc.	Postal Address	The postal trade address information for this logistics related location.	0	1
Assoc.	Inspection Event	An inspection event for this logistics location.	0	unbounded
Assoc.	Supply Chain Event	A supply chain inspection event at this logistics location.	0	unbounded
Assoc.	Associated Geographical Feature	A geographical feature associated with this logistics location.	0	unbounded
Entity	Logistics Shipping Marks	Physical markings or labels on individual packages or transport units for logistics purposes.		

Type	Short Name	Definition	Min	Max
Attr.	Marking Text	Marking, expressed as text, for these logistics shipping marks.	0	unbounded
Attr.	Marking Instruction Code	A code specifying a marking instruction for these logistics shipping marks.	0	unbounded
Assoc.	Barcode Label	A barcode label that is a part of these logistics shipping marks.	0	unbounded
Assoc.	RFID Label	A Radio Frequency Identification (RFID) label that is a part of these logistics shipping marks.	0	unbounded
Assoc.	VIN Label	A Vehicle Identification Number (VIN) label that is a part of these logistics shipping marks.	0	unbounded
Entity	Logistics Transport Means	The devices used to convey goods or other objects from place to place during logistics cargo movements.		
Attr.	Type Code	The code specifying the type of logistics means of transport (Reference UNECE Recommendation 28).	0	1
Attr.	Type Text	The type, expressed as text, of this logistics means of transport.	0	1
Attr.	ID	An identifier of this logistics means of transport, such as the International Maritime Organization number of a vessel.	0	unbounded
Attr.	Name	The name, expressed as text, of this logistics means of transport.	0	1
Attr.	Gross Weight	The measure of the gross weight (mass) of this logistics means of transport including cargo, such as the measure of the overall size of a vessel determined in accordance with the provisions of the International Convention on Tonnage Measurement of Ships, 1969.	0	1
Attr.	Net Weight	The measure of the net weight (mass) of this logistics means of transport, such as the net tonnage of a vessel determined in accordance with the provisions of the International Convention on Tonnage Measurement of Ships, 1969.	0	1
Attr.	Tare Weight Measure	The measure of the tare weight (mass) of this logistics means of transport which is the weight (mass) including permanent equipment but excluding goods and loose accessories.	0	1
Assoc.	Calculated Emission	A calculated emission specified for this logistics transport means.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this logistics transport means.	0	unbounded
Entity	Logistics Transport Movement	The conveyance (physical carriage) of goods or other objects used for logistics transport purposes.		
Attr.	Stage Code	The code specifying the stage of this logistics transport movement.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Mode Code	The code specifying the mode, such as by air, sea, rail, road or inland waterway, for this logistics transport movement.	0	1
Attr.	Mode Text	The mode, expressed as text, of this logistics transport movement.	0	1
Attr.	ID	The unique identifier for this logistics transport movement, such as a voyage number, flight number, or trip number.	0	1
Attr.	Information	Information, expressed as text, for this logistics transport movement.	0	1
Attr.	Cargo Description	The textual description of the cargo for this logistics transport movement.	0	1
Attr.	Dangerous Goods Indicator	The indication of whether or not dangerous goods are carried for this logistics transport movement.	0	1
Attr.	Type Text	The type, as expressed as text, of the logistics transport movement.	0	1
Attr.	Stage	A stage, expressed as text, of this logistics transport movement.	0	unbounded
Attr.	Reason Code	The code specifying the reason for this logistics transport movement.	0	1
Assoc.	Arrival Event	An arrival event for this logistics transport movement.	0	unbounded
Assoc.	Departure Event	A departure event during this logistics transport movement.	0	unbounded
Assoc.	Used Transport Means	The means of transport used for this logistics transport movement.	0	1
Assoc.	Carrier	A carrier party for this logistics transport movement.	0	unbounded
Assoc.	Inspection Party	An inspection party for this logistics transport movement.	0	unbounded
Assoc.	Itinerary Route	A route in the itinerary of this logistics transport movement.	0	unbounded
Assoc.	Intermediate Transshipment Event	A transshipment intermediate event during this logistics transport movement.	0	unbounded
Assoc.	Specified Calculated Emission	A calculated emission specified for this logistics transport movement.	0	unbounded
Assoc.	Carried Goods Characteristic	Material characteristics of goods carried during this logistics transport movement.	0	unbounded
Assoc.	Reported Waste Material	Waste material reported for this logistics transport movement.	0	unbounded
Assoc.	Inspection	An inspection applicable for this logistics transport movement.	0	unbounded
Assoc.	Sustainability Inspection	A sustainability inspection specified for this logistics transport movement.	0	unbounded
Assoc.	Transport Waste Disposal Instructions	Transport waste disposal instructions for this logistics transport movement.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this logistics transport movement.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Transport Service Product Certification	The transport service product certification applicable for this logistics transport movement.	0	1
Assoc.	Process Certificate	A process certificate specified for this logistics transport movement.	0	unbounded
Assoc.	Organization Certificate	An organization certificate specified for this logistics transport movement.	0	unbounded
Entity	Material Waste Recovery Disposal Process	A process of either regaining substances in usable form, or of getting rid of substances regarding material waste, such production material waste.		
Attr.	Type Code	The code specifying the type of material waste recovery disposal process.	0	1
Attr.	Description	A textual description for the type of material waste recovery disposal process.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this material waste recovery disposal process..	0	unbounded
Entity	Material Goods Characteristic	A distinctive feature of a material contained within physical goods.		
Attr.	Description	A textual description of this material goods characteristic.	0	unbounded
Attr.	Type Code	The code specifying the type of material goods characteristic.	0	1
Attr.	Constituent Percent	The percentage presence of the material within the goods for this material goods characteristic.	0	1
Attr.	Absolute Presence Weight	The weight measure of the absolute presence of this material goods characteristic.	0	1
Attr.	Absolute Presence Volume	The volume measure of the absolute presence of this material goods characteristic.	0	1
Entity	Metrics Characteristic	A prominent attribute or aspect of a metric (a standard of measurement).		
Attr.	ID	A unique identifier for this metric characteristic.	0	unbounded
Attr.	Type Code	The code specifying the type of metric characteristic.	0	1
Attr.	Description	A textual description of this metric characteristic.	0	unbounded
Attr.	Value Measure	A measure of a value for this metric characteristic.	0	unbounded
Attr.	Measurement Method Code	The code specifying the measurement method for this metric characteristic.	0	1
Attr.	Value	A value, expressed as text, for this metric characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this metric characteristic.	0	1
Attr.	Value Date Time	The value for this metric characteristic expressed as a date, time, date time, or other date time value.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Value Indicator	The value for this metric characteristic expressed as an indicator.	0	1
Attr.	Content Type Code	The code specifying the content type of this metric characteristic.	0	1
Assoc.	Value Specified Range	A range specified for the value of this metric characteristic.	0	unbounded
Assoc.	Value Specified Parameter	A value parameter specified for this metric characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this metric characteristic.	0	unbounded
Entity	Note	A textual or coded description, such as a remark or additional information.		
Attr.	Subject Text	The subject, expressed as text, of this note.	0	1
Attr.	Content Code	A code specifying the content of this note.	0	unbounded
Attr.	Content Text	A content, expressed as text, of this note.	0	unbounded
Attr.	Subject Code	A code specifying the subject of this note.	0	unbounded
Attr.	ID	A unique identifier for this note.	0	unbounded
Attr.	Name	A name, expressed as text, for this note.	0	unbounded
Attr.	Creation Date Time	The date, time, date time, or other date time value for the creation of this note.	0	1
Entity	Observation Objective Parameter	A feature that is fixed for the case in question but may be different in other cases for this observation objective.		
Attr.	ID	The identifier for this observation objective parameter.	0	1
Attr.	Value Text	The value, expressed as text, of this observation objective parameter.	0	1
Attr.	Value Measure	The measure of the value for this observation objective parameter.	0	1
Attr.	Type Code	The code specifying the type of observation objective parameter, such as retailer, country, toxic standard or examination type.	0	1
Attr.	Description	The textual description of this observation objective parameter.	0	1
Attr.	Name	The name, expressed as text, for this observation objective parameter.	0	1
Attr.	Value Allowed Indicator	The indication of whether or not this value is allowed for this parameter observation objective.	0	1
Attr.	Status Code	The code specifying the status of this observation objective parameter.	0	1
Attr.	Status Value Measure	The measure of the status value for this observation objective parameter.	0	1
Attr.	Type Text	A type, expressed as text, for this observation objective parameter.	0	unbounded
Entity	Organization Certificate	A collection of data for a piece of written, printed or electronic matter that provides information or evidence about an organization.		
Attr.	ID	An identifier for this organization certificate.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Issue Date Time	The date, time, date time, or other date time value when this organization certificate was issued.	0	1
Attr.	Expiry Date Time	The date, time, date time, or other date time value when this organization certificate expires.	0	1
Attr.	Issue Reason Code	The code specifying the reason why this organization certificate was issued.	0	1
Attr.	Type Code	The code specifying the type of organization certificate.	0	1
Attr.	Requested Effective Date Time	The requested effective date, time, date time or other date time value for this organization certificate.	0	1
Attr.	Actual Effective Date Time	The actual effective date, time, date time or other date time value for this organization certificate.	0	1
Attr.	Description	A textual description of this organization certificate.	0	unbounded
Attr.	Object Code	The code specifying the object, such as item, animal, person or organization applicable for this organization certificate.	0	1
Attr.	Issuing Party ID	An identifier for the party issuing this organization certificate.	0	unbounded
Attr.	Purpose Code	The code specifying the purpose of this organization certificate.	0	1
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this organization certificate.	0	unbounded
Assoc.	Organization Characteristic	A characteristic applicable for this organization certificate.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion applicable for this organization certificate.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this organization certificate	0	unbounded
Assoc.	Attached Binary File	An attached binary file for this organization certificate.	0	unbounded
Entity	Organization Certification	The process of certifying that a certain process has passed performance and quality assurance tests, or qualification requirements stipulated in regulations.		
Attr.	Assertion Code	The code specifying the assertion for this trade product certification, such as a claim that the organization does not practise child labour.	0	1
Attr.	Assertion	An assertion, expressed as text, for this organization certification.	0	unbounded
Attr.	Standard	A standard, expressed as text, for this organization certification.	0	unbounded
Attr.	Responsible Agency	An agency, expressed as text, responsible for this organization certification.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion for this organization certification.	0	unbounded

Type	Short Name	Definition	Min	Max
Entity	Organization Characteristic	A prominent attribute or aspect of an organization.		
Attr.	ID	A unique identifier for this organization characteristic.	0	unbounded
Attr.	Type Code	The code specifying the type of organization characteristic.	0	1
Attr.	Description	A textual description of this organization characteristic.	0	unbounded
Attr.	Value Measure	A measure of a value for this organization characteristic.	0	unbounded
Attr.	Value Number	The value, expressed as a number, for this organization characteristic.	0	1
Attr.	Measurement Method Code	The code specifying the measurement method for this organization characteristic.	0	1
Attr.	Condition	A condition, expressed as text, for this organization characteristic.	0	1
Attr.	Value	A value, expressed as text, for this organization characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this organization characteristic.	0	1
Attr.	Value Date Time	The value for this organization characteristic expressed as a date, time, date time, or other date time value.	0	1
Attr.	Value Indicator	The value for this organization characteristic expressed as an indicator.	0	1
Assoc.	Value Specified Range	A range specified for the value of this organization characteristic.	0	unbounded
Assoc.	Value Specified Parameter	A parameter specified for the value of this organization characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this organization characteristic.	0	unbounded
Assoc.	Referenced Standard	A referenced standard related to this organization characteristic.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this organization characteristic.	0	unbounded
Entity	Packaging Instructions	Packaging information of an instructive nature.		
Attr.	Handling Code	A code specifying packaging handling instructions.	0	unbounded
Attr.	Handling Text	Packaging handling instructions, expressed as text.	0	unbounded
Entity	Packaging Marking	An inscription, stamp or label on packaging, such as to indicate date, ownership, quality, manufacture or origin.		
Attr.	Type Code	A code specifying a type of packaging marking.	0	unbounded
Attr.	Content Text	Content, expressed as text, of this packaging marking.	0	unbounded
Attr.	Content Date Time	The date, time, date time or other date time value for the content of this packaging marking.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Content Amount	Content, expressed as a monetary amount, for this packaging marking.	0	unbounded
Attr.	Barcode Type Code	A code specifying a type of barcode for this packaging marking.	0	unbounded
Attr.	Content Code	Content, expressed as a code, of this packaging marking.	0	unbounded
Attr.	Automatic Data Capture Method Type Code	A code specifying an automatic data capture method type for this packaging marking.	0	unbounded
Assoc.	Logistics Label	A logistics label specified for this packaging marking.	0	unbounded
Entity	Photographic Picture	A photograph or video still represented as a digital image for electronic sharing.		
Attr.	Area Included Text	The area or location, expressed as text, that is included in this photographic picture.	0	1
Attr.	Copyright Owner Name	The name of the copyright owner, expressed as text, for this photographic picture.	0	1
Attr.	Description	The textual description of this photographic picture.	0	1
Attr.	Digital Image	Binary object data that is the actual digital image for this photographic picture.	0	1
Attr.	ID	An identifier for this photographic picture.	0	unbounded
Attr.	Subject Text	The subject, expressed as text, of this photographic picture.	0	1
Attr.	Taken Date Time	The date, time, date time, or other date value of when this photographic picture was created.	0	1
Attr.	Title Name	The name, expressed as text, of the title for this photographic picture.	0	1
Attr.	Type Text	The type, expressed as text, of this photographic picture.	0	1
Attr.	Additional Description	An additional textual description of this photographic picture.	0	unbounded
Attr.	Rendering Information	Rendering information, expressed as text, for this photographic picture.	0	unbounded
Attr.	URI	The Uniform Resource Identifier (URI) for this photographic picture.	0	1
Attr.	Reference	A reference, expressed as text, for this photographic picture.	0	unbounded
Attr.	Resolution Type Code	The code specifying the type of resolution for this photographic picture.	0	1
Attr.	Resolution Value Number	The value, expressed as a number, for the resolution of this photographic picture.	0	1
Attr.	Intended Use Code	The code specifying the intended use of this photographic picture.	0	1
Attr.	Intended Use	An intended use, expressed as text, for this photographic picture.	0	unbounded
Assoc.	Linear Spatial Dimension	Linear spatial dimensions of this photographic picture.	0	unbounded
Assoc.	Attached Binary File	A binary file attached for this photographic picture.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Note	A note specified for this photographic picture.	0	unbounded
Entity	Preventive Action	Improvements to an organization's processes or products taken to prevent non-conformities or other undesirable situations, generally as a result of a risk analysis.		
Attr.	Type Code	The code specifying the type of preventive action.	0	1
Attr.	Type Text	A type, expressed as text, for this preventive action.	0	unbounded
Attr.	Description	A textual description for this preventive action.	0	unbounded
Entity	Process Certificate	A collection of data for a piece of written, printed or electronic matter that provides information or evidence about the process.		
Attr.	ID	An identifier for this process certificate.	0	unbounded
Attr.	Issue Date Time	The date, time, date time, or other date time value when this process certificate was issued.	0	1
Attr.	Expiry Date Time	The date, time, date time, or other date time value when this process certificate expires.	0	1
Attr.	Issue Reason Code	The code specifying the reason why this process certificate was issued.	0	1
Attr.	Type Code	The code specifying the type of process certificate.	0	1
Attr.	Requested Effective Date Time	The requested effective date, time, date time or other date time value for this process certificate.	0	1
Attr.	Actual Effective Date Time	The actual effective date, time, date time or other date time value for this process certificate.	0	1
Attr.	Description	A textual description of this process certificate.	0	unbounded
Attr.	Object Code	The code specifying the object, such as item, animal, person or organization applicable for this process certificate.	0	1
Attr.	Issuing Party ID	An identifier for the party issuing this process certificate.	0	unbounded
Attr.	Purpose Code	The code specifying the purpose of this process certificate.	0	1
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this process certificate.	0	unbounded
Assoc.	Sustainability Assertion	The sustainability assertion applicable for this process certificate.	0	1
Assoc.	Process Characteristic	A process characteristic applicable for this process certificate.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this process certificate	0	unbounded
Assoc.	Attached Binary File	An attached binary file for this process certificate.	0	unbounded

Type	Short Name	Definition	Min	Max
Entity	Process Certification	The process of certifying that a certain process has passed performance and quality assurance tests, or qualification requirements stipulated in regulations.		
Attr.	Assertion Code	The code specifying the assertion for this trade product certification, such as a claim that the process is free from child labour.	0	1
Attr.	Assertion	An assertion, expressed as text, for this process certification.	0	unbounded
Attr.	Standard	A standard, expressed as text, for this process certification.	0	unbounded
Attr.	Responsible Agency	An agency, expressed as text, responsible for this process certification.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion for this process certification.	0	unbounded
Entity	Process Characteristic	A prominent attribute or aspect of a process.		
Attr.	ID	An identifier for this process characteristic.	0	unbounded
Attr.	Type Code	The code specifying the type of process characteristic.	0	1
Attr.	Description	A textual description of this process characteristic.	0	unbounded
Attr.	Value Measure	A measure of a value for this process characteristic.	0	unbounded
Attr.	Value Number	The measure of the value, expressed as a number, for this process characteristic.	0	1
Attr.	Measurement Method Code	The code specifying the measurement method for this process characteristic.	0	1
Attr.	Condition	A condition, expressed as text, for this process characteristic.	0	unbounded
Attr.	Value	A value, expressed as text, for this process characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this process characteristic.	0	1
Attr.	Value Date Time	The value, expressed as a date, time, date time, or other date time value for this process characteristic.	0	1
Attr.	Value Indicator	The value, expressed as an indicator, for this process characteristic.	0	1
Assoc.	Value Specified Range	A range specified for the value of this process characteristic.	0	unbounded
Assoc.	Value Specified Parameter	A parameter specified for the value of this process characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this process characteristic.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this process characteristic.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this process characteristic.	0	unbounded
Entity	Process Work Item	An piece of work, such as an operations or task.		

Type	Short Name	Definition	Min	Max
Attr.	ID	The unique identifier for this process work item.	1	1
Attr.	Type Code	A code specifying the type of process work item.	0	unbounded
Attr.	Primary Classification Code	A code specifying the primary classification for this process work item.	0	unbounded
Attr.	Alternative Classification Code	A code specifying an alternative classification for this process work item.	0	unbounded
Attr.	Description	A comment, expressed as text, for this process work item.	0	unbounded
Attr.	Total Quantity	The total quantity for this process work item.	0	1
Entity	Product Batch Certificate	A collection of data for a piece of written, printed or electronic matter that provides information or evidence about the product batch.		
Attr.	ID	The identifier for this product batch certificate.	0	1
Attr.	Issue Date Time	The date, time, date time, or other date time value when this product batch certificate was issued.	0	1
Attr.	Expiry Date Time	The date, time, date time, or other date time value when this product batch certificate expires.	0	1
Attr.	Issue Reason Code	The code specifying the reason why this product batch certificate was issued.	0	1
Attr.	Type Code	A code specifying the type of product batch certificate.	0	unbounded
Attr.	Requested Effective Date Time	The requested effective date, time, date time or other date time value for this product batch certificate.	0	1
Attr.	Actual Effective Date Time	The actual effective date, time, date time or other date time value for this product batch certificate.	0	1
Attr.	Description	A textual description of this product batch certificate.	0	unbounded
Attr.	Applicable Object Code	A code specifying an object, such as item, animal, person or organization applicable for this product batch certificate.	0	unbounded
Attr.	Issuing Party ID	The identifier for the party issuing this product batch certificate.	0	1
Attr.	Purpose Code	A code specifying the purpose of this product batch certificate.	0	unbounded
Assoc.	Product Certification	The product certification applicable for this product batch certificate.	0	1
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this product batch certificate.	0	unbounded
Assoc.	Product Characteristic	A product characteristic applicable for this product batch certificate.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion applicable for this product batch certificate.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Attached Binary File	An attached binary file for this product batch certificate.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this product certificate	0	unbounded
Entity	Product Batch Certification	The process of certifying that a certain product batch has passed performance and quality assurance tests, or qualification requirements stipulated in regulations.		
Attr.	Assertion Code	The code specifying the assertion for this product batch certification, such as claim that a product is free from gluten.	0	1
Attr.	Assertion Text	An assertion, expressed as text, for this product batch certification, such as that this product is free from gluten.	0	unbounded
Attr.	Standard	A standard, expressed as text, for this product batch certification.	0	unbounded
Attr.	Responsible Agency	An agency, expressed as text, responsible for this product batch certification.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion for this product batch certification.	0	unbounded
Entity	Product Batch Characteristic	A prominent attribute or aspect of a group of products considered or dealt with together.		
Attr.	ID	An identifier for this product batch characteristic.	0	unbounded
Attr.	Type Code	The code specifying the type of product batch characteristic.	0	1
Attr.	Description	A textual description of this product batch characteristic.	0	unbounded
Attr.	Value Measure	A measure of a value for this product batch characteristic.	0	unbounded
Attr.	Measurement Method Code	The code specifying the measurement method for this product batch characteristic.	0	1
Attr.	Value	A value, expressed as text, for this product batch characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this product batch characteristic.	0	1
Attr.	Value Date Time	The value, expressed as a date, time, date time, or other date time value, for this product batch characteristic.	0	1
Attr.	Value Indicator	The value, expressed as an indicator, for this product batch characteristic.	0	1
Assoc.	Value Specified Range	A range specified for the value of this product batch characteristic.	0	unbounded
Assoc.	Value Specified Parameter	A parameter specified for the value of this product batch characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this product batch characteristic.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this product batch characteristic.	0	unbounded

Type	Short Name	Definition	Min	Max
Entity	Product Batch Instance	An individual product batch produced by human or mechanical effort or by a natural process.		
Attr.	ID	An identifier for this product batch instance.	0	unbounded
Attr.	Serial ID	The serial identifier for this product batch instance.	0	1
Attr.	Global Serial ID	The global serial identifier for this product batch instance.	0	1
Attr.	EPC	The Electronic Product Code (EPC) identifier for this product batch instance.	0	1
Attr.	Supplier Assigned Serial ID	The supplier assigned serial identifier for this product batch instance.	0	1
Attr.	Manufacturer Assigned Serial ID	The manufacturer assigned serial identifier for this product batch instance.	0	1
Attr.	DNA Marker ID	The DNA marker identifier for this product batch instance.	0	1
Entity	Product Batch	A group of products considered or dealt with together.		
Attr.	ID	The identifier for this product batch.	0	1
Attr.	Creation Date Time	The date, time, date time or other date time value of the creation of this product batch.	0	1
Attr.	Product Name	The product name, expressed as text, for this product batch.	0	1
Attr.	Type Code	The code specifying the type of product batch.	0	1
Attr.	Size Measure	The size, expressed as a measure, for this product batch.	0	1
Attr.	Weight Measure	The weight, expressed as a measure, for this product batch.	0	1
Attr.	Unit Quantity	The number of units, expressed as a quantity, for this product batch.	0	1
Attr.	Applied Treatment	A treatment, expressed as text, applied to this product batch.	0	unbounded
Attr.	Global ID	The global identifier of this product batch.	0	1
Attr.	Producer Assigned ID	A producer assigned identifier of this product batch.	0	unbounded
Attr.	Name	The name, expressed as text, of this product batch.	0	1
Attr.	Description	A textual description of this product batch.	0	unbounded
Attr.	Use Description	A textual description of a use of this product batch.	0	unbounded
Attr.	Description Code	The code specifying the description of this product batch.	0	1
Attr.	Production Mode Code	The code specifying the production mode for this product batch.	0	1
Attr.	Net Weight	A measure of the net weight (mass) of this product batch.	0	unbounded
Attr.	Gross Weight	A measure of the gross weight (mass) of this product batch.	0	unbounded
Attr.	Net Volume	A measure of a net volume for this product batch.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Gross Volume	A measure of the gross volume for this product batch.	0	unbounded
Attr.	Mass	A measure of the mass of this product batch.	0	unbounded
Attr.	Mass Ratio	A mass measure of this product batch expressed as a ratio to another mass, such as the total mass.	0	unbounded
Attr.	Minimum Size	A measure of the minimum size for this product batch.	0	unbounded
Attr.	Maximum Size	A measure of the maximum size for this product batch.	0	unbounded
Attr.	Status	The code specifying the status of product batch.	0	1
Attr.	DNA Marker ID	The DNA marker identifier for this product batch.	0	1
Assoc.	Product	A trade product related to this product batch.	0	unbounded
Assoc.	Colour Size Range	A range specified for the colour and size combination of this product batch.	0	unbounded
Assoc.	Product Finishing Treatment	A product finishing treatment applied to this product batch.	0	unbounded
Assoc.	Chemical Treatment	A chemical treatment applied to this product batch.	0	unbounded
Assoc.	Specified Fault	A fault applicable for this specified product batch.	0	unbounded
Assoc.	Disposal Instructions	Disposal instructions applicable for this product batch.	0	unbounded
Assoc.	Product Batch Characteristic	A product batch characteristic applicable for this product batch.	0	unbounded
Assoc.	Product Batch Certificate	A product batch certificate specified for this product batch.	0	unbounded
Assoc.	Product Batch Certification	A certificate applicable to this product batch.	0	unbounded
Assoc.	Photographic Picture	A photographic picture specified for this product batch.	0	unbounded
Assoc.	Component Material	A material component applicable for this product batch.	0	unbounded
Assoc.	Component Product	A trade product component applicable for this product batch.	0	unbounded
Assoc.	Component Product Batch	A product batch component for this product batch.	0	unbounded
Assoc.	Referenced Document	A referenced document specified for this product batch.	0	unbounded
Assoc.	Note	A note specified for this product batch.	0	unbounded
Assoc.	Supply Chain Event	A supply chain event related to this product batch.	0	unbounded
Assoc.	Sustainability Inspection	A sustainability inspection specified for this product batch.	0	unbounded
Assoc.	Inspection	An inspection applicable for this product batch.	0	unbounded
Assoc.	Individual Product Batch Instance	An individual instance of this product batch.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Production Process	A production process specified for this product batch.	0	unbounded
Assoc.	Referenced Location	A referenced location specified for this product batch.	0	unbounded
Assoc.	Specified Inspection	An inspection specified for this product batch.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion specified for this product batch.	0	unbounded
Assoc.	Specified Period	A period applicable for this product batch.	0	unbounded
Assoc.	Applied Agricultural Application	A specified agricultural application applied to this product batch.	0	unbounded
Entity	Product Certificate	A collection of data for a piece of written, printed or electronic matter that provides information or evidence about the product.		
Attr.	ID	The identifier for this product certificate.	0	1
Attr.	Issue Date Time	The date, time, date time, or other date time value when this product certificate was issued.	0	1
Attr.	Expiry Date Time	The date, time, date time, or other date time value when this product certificate expires.	0	1
Attr.	Issue Reason Code	The code specifying the reason why this product certificate was issued.	0	1
Attr.	Type Code	A code specifying the type of product certificate.	0	unbounded
Attr.	Requested Effective Date Time	The requested effective date, time, date time or other date time value for this product certificate.	0	1
Attr.	Actual Effective Date Time	The actual effective date, time, date time or other date time value for this product certificate.	0	1
Attr.	Description	A textual description of this product certificate.	0	unbounded
Attr.	Applicable Object Code	A code specifying an object, such as item, animal, person or organization applicable for this product certificate.	0	unbounded
Attr.	Issuing Party ID	The identifier for the party issuing this product certificate.	0	1
Attr.	Purpose Code	A code specifying the purpose of this product certificate.	0	unbounded
Assoc.	Product Certification	The product certification applicable for this product certificate.	0	1
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this product certificate.	0	unbounded
Assoc.	Product Characteristic	A product characteristic applicable for this product certificate.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion applicable for this product certificate.	0	unbounded
Assoc.	Attached Binary File	An attached binary file for this product certificate.	0	unbounded
Assoc.	Referenced Standard	A referenced standard applicable for this product certificate	0	unbounded

Type	Short Name	Definition	Min	Max
Entity	Product Characteristic	A prominent attribute or aspect of a product.		
Attr.	ID	A unique identifier for this product characteristic.	0	unbounded
Attr.	Type Code	A code specifying a type of product characteristic.	0	unbounded
Attr.	Description	A textual description of this product characteristic.	0	unbounded
Attr.	Value Measure	A measure of a value for this product characteristic.	0	unbounded
Attr.	Measurement Method Code	A code specifying a measurement method for this product characteristic.	0	unbounded
Attr.	Value Text	A value, expressed as text, for this product characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this product characteristic.	0	1
Attr.	Value Date Time	The value for this product characteristic expressed as a date, time, date time, or other date time value.	0	1
Attr.	Value Indicator	The value for this product characteristic expressed as an indicator.	0	1
Assoc.	Referenced Standard	The referenced standard that is applicable to this product characteristic.	0	1
Assoc.	Value Specified Range	A range specified for the value of this product characteristic.	0	unbounded
Assoc.	Value Specified Parameter	A parameter specified for the value of this product characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this product characteristic.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable for this product characteristic.	0	unbounded
Entity	Product Classification	A systematic arrangement of products in classes or categories according to established criteria.		
Attr.	System ID	The unique identifier of the classification system for this product classification.	0	1
Attr.	System Name	A name, expressed as text, of the classification system for this product classification.	0	unbounded
Attr.	Class Code	The code specifying the class for this product classification.	0	1
Attr.	Class Name	A class name, expressed as text, for this product classification.	0	unbounded
Attr.	Sub-Class Code	The code specifying the sub class for this product classification.	0	1
Attr.	Description	A textual description of this product classification.	0	unbounded
Attr.	Type Code	The code specifying the type of product classification.	0	1
Assoc.	Product Class Characteristic	A product class characteristic for this product classification.	0	unbounded

Type	Short Name	Definition	Min	Max
Entity	Product Colour	A colour of a product.		
Attr.	ID	An identifier of this product colour.	0	unbounded
Attr.	Type Code	The code specifying the type of product colour.	0	1
Attr.	Name	The name, expressed as text, of this product colour.	0	1
Attr.	Description	A textual description of this product colour.	0	unbounded
Attr.	Test Indicator	The indication whether or not this product colour is a test.	0	1
Attr.	Presence Percent	The percentage of presence for this product colour.	0	1
Attr.	Test Method Code	The code specifying the test method for this product colour.	0	1
Attr.	Light Source Code	The code specifying the used light source for this product colour.	0	1
Attr.	Variation Coefficient Code	The code specifying the variation coefficient for this colour product.	0	1
Assoc.	Technical Characteristic	A technical characteristic applicable for this product colour.	0	unbounded
Assoc.	Specified Method	A specified method applicable for this product colour.	0	unbounded
Assoc.	Used Material	A material used for this product colour.	0	unbounded
Assoc.	Used Production Device	A production device used for this product colour.	0	unbounded
Assoc.	Used Production Machine	A production machine used for this product colour.	0	unbounded
Assoc.	Referenced Document	A referenced document specified for this product colour.	0	unbounded
Assoc.	Related Party	A party related to this product colour.	0	unbounded
Assoc.	Referenced Standard	A referenced standard specified for this product colour.	0	unbounded
Entity	Product Label	A label used for identifying a product, such as a garment label, a radio frequency tag.		
Attr.	ID	An identifier of this product label.	0	unbounded
Attr.	Barcode ID	The barcode identifier for this product label.	0	1
Attr.	Category Code	The code specifying the category of this product label.	0	1
Attr.	Tag Type	The code specifying the type of tag for this product label.	0	1
Attr.	Label Name	The name on label, expressed as a text, of this product label.	0	1
Attr.	Layout Type Code	The code specifying the layout type of this product label.	0	1
Attr.	Size Code	The code specifying the size of this product label.	0	1
Attr.	Series Start ID	The identifier of the start of a series of product labels.	0	1
Attr.	Series End ID	The identifier of the end of a series of product labels.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Attachment Date Time	The value, expressed as a date, time, date time, or other date time value, of this product label.	0	1
Assoc.	Sustainability Assertion	A sustainability assertion included in this product label.	0	unbounded
Entity	Product Print	Any text or pattern put on the surface of an object using a specific material such as dye.		
Attr.	ID	An identifier of this product print.	0	unbounded
Attr.	Type Code	The code specifying the type of product print.	0	1
Attr.	Name	The name, expressed as text, of this product print.	0	1
Attr.	Description	A textual description of this product print.	0	unbounded
Attr.	Test Indicator	The indication whether or not this product print is a test.	0	1
Attr.	Text Content	A textual description of the content for this product print.	0	unbounded
Attr.	Design Code	The code specifying the design for this product print.	0	1
Attr.	Design Yext	A textual description of the design for this product print.	0	unbounded
Attr.	Background Colour Code	The code specifying the background colour for this product print.	0	1
Attr.	Print Section Code	The code specifying the print section for this product print.	0	1
Attr.	Print Section Text	A print section, expressed as text, of this product print.	0	1
Assoc.	Specified Method	A specified method applicable for this product print.	0	unbounded
Assoc.	Material	Material applicable for this product print.	0	unbounded
Assoc.	Production Device	A production device used for this product print.	0	unbounded
Assoc.	Print Production Machine	A production machine specified for this product print.	0	unbounded
Assoc.	Referenced Document	A referenced document specified for this product print.	0	unbounded
Assoc.	Product Party	A party specified for this product print.	0	unbounded
Entity	Production Facility	A man made physical structure, such as a building, used to produce something, such as tangible products and services.		
Attr.	ID	An identifier for this production facility.	0	unbounded
Attr.	Global ID	The global identifier for this production facility.	0	1
Attr.	Name	The name, expressed as text, of this production facility.	0	1
Attr.	Description	The textual description of this production facility.	0	1
Attr.	Type Code	The code specifying the type of production facility, such as a building, greenhouse, installation, storage.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type for this production facility.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Roof Type Code	The code specifying the type of roof, such as a glass roof, for this production facility.	0	1
Attr.	Certification Code	The code specifying the certification for this production facility.	0	1
Attr.	Function Code	The code specifying the function of this production facility.	0	1
Attr.	Licence	A licence, expressed as text, for this production facility.	0	unbounded
Attr.	Completion Date Time	The date value of the completion of this production facility.	0	1
Attr.	Renovation Date Time	The date value of the renovation of this production facility.	0	1
Attr.	Capacity	A measure of the capacity of this production facility, such as the number of machines.	0	unbounded
Attr.	Input Capacity	A measure of the input capacity for this production facility, such as maximum reach or average per month.	0	unbounded
Attr.	Output Capacity	A measure of the output capacity for this production facility.	0	unbounded
Attr.	Buffer Capacity	A measure of the buffer capacity for this production facility.	0	unbounded
Attr.	Construction Date	The date value of the construction of this production facility.	0	1
Assoc.	Facility Production Unit	A production unit dedicated to this production facility.	0	unbounded
Assoc.	Referenced Location	A referenced location specified for this production facility.	0	unbounded
Assoc.	Organization Certification	An organization certification specified for this production facility.	0	unbounded
Assoc.	Process Certification	A process certification specified for this production facility.	0	unbounded
Assoc.	Product Certification	A product certification specified for this production facility.	0	unbounded
Assoc.	Product Batch Certification	A product batch certification specified for this production facility.	0	unbounded
Assoc.	Product Batch Certificate	A product certificate specified for this production facility.	0	unbounded
Assoc.	Product Certificate	A product certificate specified for this production facility.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this production facility.	0	unbounded
Assoc.	Organization Certificate	An organization product certificate specified for this production facility.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainable characteristic specified for this production facility.	0	unbounded
Assoc.	Sustainability Inspection	A sustainability inspection specified for this production facility.	0	unbounded
Assoc.	Inspection	An inspection applicable for this production facility.	0	unbounded
Assoc.	Supply Chain Event	A supply chain event specified for this production facility.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Production Process	A production process specified for this production facility.	0	unbounded
Assoc.	Subordinate Production Facility	A production facility subordinate to this production facility.	0	unbounded
Entity	Production Machine	An object specified to be used to perform an activity to produce something.		
Attr.	ID	An identifier for this specified production machine.	0	unbounded
Attr.	Type Code	The code specifying the type of this specified production machine.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type for this production machine.	0	1
Attr.	Function Description	A textual description of the function of this production machine.	0	unbounded
Attr.	Input Capacity	A measure of the input capacity of this production machine, such as maximum reach or average per month.	0	unbounded
Attr.	Output Capacity	A measure of the output capacity of this production machine, such as maximum reach or average per month.	0	unbounded
Assoc.	Input Product	An input product for this production machine.	0	unbounded
Assoc.	Input Product Batch	An input batch for this production machine.	0	unbounded
Assoc.	Input Material	An input material for this production machine.	0	unbounded
Assoc.	Output Product	An output product of this production machine.	0	unbounded
Assoc.	Output Product Batch	An output product batch of this production machine.	0	unbounded
Assoc.	Output Material	An output material of this production machine.	0	unbounded
Assoc.	Operational Parameter	An operational parameter specified for this production machine.	0	unbounded
Assoc.	Requested Operational Parameter	An operational parameter requested for this production machine.	0	unbounded
Assoc.	Combined Production Machine	A production machine combined with is this production machine.	0	unbounded
Assoc.	Combined Production Device	A production device combined with is this production machine.	0	unbounded
Assoc.	Facility Production Unit	A facility production unit specified for this production machine.	0	unbounded
Assoc.	Referenced Location	A referenced location specified for this production machine.	0	unbounded
Entity	Production Process	A naturally occurring or designed sequence of operations or events in order to produce something.		
Attr.	ID	An identifier of this production process.	0	unbounded
Attr.	Name	The name, expressed as text, of this production process.	0	1
Attr.	Type Code	The code specifying the type of production process.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type of production process.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Occurrence Date Time	The date, time, date time or other date time value for occurrence of this production process..	0	1
Attr.	Process Step Code	The code specifying the step for this production process.	0	1
Attr.	Critical Process Step Indicator	The indication whether or not this step is critical for this production process.	0	1
Attr.	Final Process Step Indicator	The indication whether or not this step is final for this production process.	0	1
Attr.	Operation Technology Code	The code specifying the operation technology for this production process.	0	1
Attr.	Status Code	The code specifying the status of this production process.	0	1
Attr.	Status Text	The name, expressed as text, of this production process.	0	1
Attr.	Description	A textual description of this production process.	0	unbounded
Attr.	Recycling Indicator	The indication whether or not this production process is recycling.	0	1
Attr.	Operation Reference Code	The code specifying the operation reference for this production process.	0	1
Attr.	Inventory Type Code	The code specifying the inventory type of this production process.	0	1
Assoc.	Production Facility	A facility for this production process.	0	unbounded
Assoc.	Input Material	An input material for this production process.	0	unbounded
Assoc.	Input Product	An input product for this production process.	0	unbounded
Assoc.	Input Product Batch	An input product batch for this production process.	0	unbounded
Assoc.	Output Product	An output product of this production process.	0	unbounded
Assoc.	Output Product Batch	An output product batch of this production process.	0	unbounded
Assoc.	Output Material	An output material of this production process.	0	unbounded
Assoc.	Production Cycle	A production cycle applicable for this production process.	0	unbounded
Assoc.	Specified Fault	A product batch fault applicable for this specified production process.	0	unbounded
Assoc.	Supply Chain Event	A supply chain event specified for this production process.	0	unbounded
Assoc.	Inspection	An inspection applicable for this production process.	0	unbounded
Assoc.	Sustainability Inspection	A sustainability inspection specified for this production process.	0	unbounded
Assoc.	Allocated Production Machine	A machine allocated for this production process.	0	unbounded
Assoc.	Allocated Production Device	A device allocated for this production process.	0	unbounded
Assoc.	Subcontractor	A subcontractor party for this production process.	0	unbounded
Assoc.	Manufacturer	A manufacturer for this production process.	0	unbounded
Assoc.	Chemical Treatment	A chemical treatment applied by this production process.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Production Crop Protection Treatment	A crop protection treatment applied to this production process.	0	unbounded
Assoc.	Product Finishing Treatment	A product finishing treatment applied to this production process.	0	unbounded
Assoc.	Performed Process Work Item	A work item performed for this production process.	0	unbounded
Assoc.	Referenced Document	A document referenced for this production process.	0	unbounded
Assoc.	Note	A note specified for this production process.	0	unbounded
Assoc.	Organization Certification	An organization certification specified for this production process.	0	unbounded
Assoc.	Process Certification	A process certification specified for this production process.	0	unbounded
Assoc.	Product Certification	A product certification specified for this production process.	0	unbounded
Assoc.	Product Batch Certification	A product batch certification specified for this production process.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this production process.	0	unbounded
Assoc.	Organization Certificate	An organization certificate specified for this production process.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this production process.	0	unbounded
Assoc.	Process Specification	A process specification referenced for this production process.	0	unbounded
Assoc.	Attached Binary File	A binary file attached for this production process.	0	unbounded
Assoc.	Subordinate Production Process	A subordinate process of this production process.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion applicable for this production process.	0	unbounded
Assoc.	Specified Parameter	A parameter applicable for this specified production process.	0	unbounded
Entity	Referenced Document	Written, printed or electronic matter that is referenced.		
Attr.	Issuer Assigned ID	The unique issuer assigned identifier for this referenced document.	0	1
Attr.	URI	The unique Uniform Resource Identifier (URI) for this referenced document.	0	1
Attr.	Type Code	The code specifying the type of referenced document.	0	1
Attr.	Attached Binary Object	A binary object that is attached or otherwise appended to this referenced document.	0	unbounded
Attr.	Item ID	The unique identifier of an item in this referenced document.	0	1
Attr.	Language Code	An identifier for a language used in this referenced document.	0	unbounded
Attr.	Channel Code	The code specifying the channel by which this referenced document is sent, such as mail, email, fax.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Description	A textual description for this referenced document.	0	unbounded
Attr.	Formatted Issue Date Time	The formatted date or date time for the issuance of this referenced document.	0	1
Assoc.	Attached Binary File	A specified binary file attached to this referenced document.	0	unbounded
Assoc.	Sender	The trade related party that sends this referenced document.	0	1
Entity	Referenced Location	A reference to a physical location or place.		
Attr.	ID	An identifier for this referenced location such as a United Nations Blue Number (UNBN) or GS1 Global Location Number (GLN).	0	unbounded
Attr.	Name	A name, expressed as text, of this referenced location.	0	unbounded
Attr.	Type Code	The code specifying the type of referenced location.	0	1
Attr.	Description	A textual description for this referenced location.	0	unbounded
Attr.	Reference Type Code	The code specifying the reference type of this referenced location.	0	1
Attr.	Global ID	The global identifier for this referenced location such as a United Nations Blue Number (UNBN) or GS1 Global Location Number (GLN).	0	1
Attr.	UTC Offset Numeric	The time offset value from the Universal Time Coordinate (UTC) for this referenced location.	0	1
Attr.	Country Name	The country name, expressed as text, of this referenced location.	0	1
Attr.	Country Code	An identifier of a country for this referenced location.	0	unbounded
Attr.	Country Sub-Division ID	An identifier of the country sub-division for this referenced location.	0	unbounded
Assoc.	Applied Agricultural Application	A specified agricultural application applied to this referenced location.	0	unbounded
Assoc.	Postal Address	The postal trade address information for this referenced location.	0	1
Assoc.	Geographical Feature	A geographical feature associated with this referenced location.	0	unbounded
Assoc.	Inventory	A production facility related to this referenced location.	0	unbounded
Assoc.	Production Facility	A production facility related to this referenced location.	0	unbounded
Assoc.	Production Unit	A facility production unit related to this referenced location.	0	unbounded
Assoc.	Specified Party	A trade party specified this referenced location.	0	unbounded
Assoc.	Supply Chain Event	A supply chain event specified for this referenced location.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Inspection	An inspection applicable for this referenced location.	0	unbounded
Assoc.	Sustainability Inspection	An sustainability inspection specified for this referenced location.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic specified for this referenced location.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion specified for this referenced location.	0	unbounded
Entity	Referenced Product	A reference to a product or service produced by human or mechanical effort or by a natural process for trading purposes.		
Attr.	ID	A unique identifier for this referenced product.	0	unbounded
Attr.	Global ID	A unique global identifier for this referenced product.	0	unbounded
Attr.	Seller Assigned ID	The unique seller assigned identifier for this referenced product.	0	1
Attr.	Buyer Assigned ID	The unique buyer assigned identifier for this referenced product.	0	1
Attr.	Manufacturer Assigned ID	A unique manufacturer assigned identifier for this referenced product.	0	unbounded
Attr.	Industry Assigned ID	A unique industry assigned identifier for this referenced product.	0	unbounded
Attr.	Name	A name, expressed as text, for this referenced product.	0	unbounded
Attr.	Description	A textual description for this referenced product.	0	unbounded
Attr.	Relationship Type Code	A code specifying a type of relationship for this referenced product.	0	unbounded
Attr.	Unit Quantity	A unit quantity of this referenced product.	0	unbounded
Entity	Referenced Standard	A referenced norm or requirement that establishes uniform criteria, methods, processes and practices, such as in engineering or technical areas.		
Attr.	ID	The identifier of this referenced standard.	0	1
Attr.	Version ID	The identifier of the version of this referenced standard.	0	1
Attr.	Element Version ID	The identifier of the version of a specific element within the referenced standard, such as the version of a data element.	0	1
Attr.	URI	The Uniform Resource Identifier (URI) for this referenced standard.	0	1
Attr.	Part ID	The identifier of a part of this referenced standard, such as a section or topic.	0	1
Attr.	Agency ID	The identifier of the agency for this referenced standard.	0	1
Attr.	Name	The name, expressed as text, for this referenced standard.	0	1
Attr.	Type Code	The code specifying the type of referenced standard.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Description	A textual description of this referenced standard.	0	unbounded
Assoc.	Applicable Country	A country applicable for this referenced standard.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion related to this referenced standard.	0	unbounded
Assoc.	Metrics Characteristic	A metric characteristic applicable for this referenced standard.	0	unbounded
Assoc.	Referenced Document	A referenced document specified for this referenced standard.	0	unbounded
Assoc.	Attached Binary File	A binary file attached for this referenced standard.	0	unbounded
Entity	Returnable Asset Instructions	The procedures to follow for returnable assets, such as reusable packaging (pallets, crates).		
Attr.	Material ID	An identifier of the material to which these returnable asset instructions apply.	0	unbounded
Attr.	Terms And Conditions Text	A textual description of the terms and conditions for these returnable asset instructions.	0	unbounded
Attr.	Terms And Conditions Code	The code specifying the description of the terms and conditions for these returnable asset instructions.	0	1
Attr.	Deposit Amount	A deposit value specified in these returnable asset instructions.	0	unbounded
Entity	Sample Observation Result Characteristic	Specifies the type of the performed observation and the acquired values of this observation on the sample.		
Attr.	Method Parameter ID	The identifier of the method parameter for this sample observation result characteristic.	0	1
Attr.	Parameter Value Text	The parameter value, expressed as text, for this sample observation result characteristic.	0	1
Attr.	Comparison Operator Code	The code specifying the operator, such as less than, greater than or equal to, for comparing the measured value for this sample observation result characteristic.	0	1
Attr.	Measured Value Measure	The measured value, expressed as a measure, for this sample observation result characteristic.	0	1
Attr.	Measured Value Text	The measured value, expressed as text, for this sample observation result characteristic.	0	1
Attr.	Range Text	The range, expressed as text, of the values of the measurements performed for this observation result characteristic sample.	0	1
Attr.	Measured Accuracy Measure	Accuracy, expressed as a measure, of the measurement for this sample observation result characteristic.	0	1
Attr.	Quality Result Code	The code specifying the quality of the result for this sample observation result characteristic.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Quality Result Description	The textual description of the quality of the result for this sample observation result characteristic.	0	1
Attr.	Reference Level Quality Result Description	The textual description of the reference level for the quality of the result for this sample observation result characteristic.	0	1
Attr.	Applied Dilution Numeric	The rate of the applied dilution for this sample observation result characteristic.	0	1
Attr.	Shareable Indicator	The indication whether or not this sample observation result characteristic is shareable.	0	1
Assoc.	Observation Objective Parameter	An applicable observation objective parameter of the interpretation result for this sample observation result characteristic.	0	unbounded
Entity	Sample Observation Result	A collection of diagnostic data, visual or technical, and processing data, performed on a sample.		
Attr.	ID	The identifier for this sample observation result.	1	1
Attr.	Material Type Text	The context material type of the observed sample, expressed as text, such as animal or blood.	0	1
Attr.	General Characteristic Text	The general characteristic, expressed as text, for this sample observation result, such as length, volume, density, titre, sensitivity, conductivity.	0	1
Attr.	Actual Observation Start Date Time	The date, time, date time, or other date time value for the start of the observation for this sample observation result.	0	1
Attr.	Actual Observation End Date Time	The date, time, date time, or other date time value for the end of the observation for this sample observation result.	0	1
Attr.	Observation Time Frame Text	The observation time frame, expressed as text, for this sample observation result.	0	1
Attr.	Observation Discontinuation Reason Text	The observation discontinuation reason, expressed as text, for this sample observation result.	0	1
Attr.	Emergency Observation Indicator	The indication of whether or not the observation was an emergency observation for this sample observation result.	0	1
Attr.	Outsourced Observation Indicator	The indication of whether or not the observation was an outsourced observation (performed by a third party).	0	1
Attr.	Observation Discontinuation Reason Code	The code specifying the observation discontinuation reason for this sample observation result.	0	1
Attr.	Material Type Code	The code specifying a material type for this sample observation result.	0	1
Attr.	Shareable Indicator	The indication whether or not this sample observation result is shareable.	0	1
Assoc.	Specified Reference	A laboratory observation reference specified for this sample observation result.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Laboratory Observation Party	The laboratory observation party who authorized this sample observation result.	0	1
Assoc.	Attached Note	A note attached to the laboratory observation results with additional observations and or conclusions.	0	unbounded
Assoc.	Used Laboratory Observation Analysis Method	A laboratory observation analysis method used for this sample observation result.	0	unbounded
Assoc.	Minimum Standard Value Observation Result Characteristic	A minimum standard value of the values for the characteristic observed or measured by using the specified type of observation for this sample observation result.	0	unbounded
Assoc.	Maximum Standard Value Observation Result Characteristic	A maximum standard value of the values for the characteristic observed or measured by using the specified type of observation for this sample observation result.	0	unbounded
Assoc.	Observed Value Observation Result Characteristic	An observed value for the characteristic, acquired by observing or measuring according to the specified type of observation for this sample observation result.	0	unbounded
Assoc.	Expected Value Observation Result Characteristic	An expected value for the characteristic, to be observed or measured according to the specified type of observation for this sample observation result.	0	unbounded
Assoc.	Specified Instructions	A set of laboratory observation instructions specified for this sample observation result.	0	unbounded
Assoc.	Laboratory Analysis Request Reference	A laboratory observation analysis request reference specified for this sample observation result.	0	unbounded
Assoc.	Outsourced Laboratory Observation Party	The outsourced laboratory party who performed this sample observation result.	0	1
Assoc.	Observation Objective Parameter	An applicable observation objective parameter of the interpretation result for this sample observation result.	0	unbounded
Entity	Spatial Dimensions	A measure of spatial extent of an object, such as the length, breadth or height of a shipping container.		
Attr.	Value Measure	The measure of the value of this spatial dimension.	0	1
Attr.	Type Code	The code specifying the type of spatial dimension, such as thickness, area, or volume.	0	1
Attr.	Description	A textual description of this spatial dimension.	0	unbounded
Attr.	Width	The measure of the width component of this spatial dimension.	0	1
Attr.	Length	The measure of the length component of this spatial dimension.	0	1
Attr.	Height	The measure of the height component of this spatial dimension.	0	1
Attr.	ID	The unique identifier of this spatial dimension.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Diameter	The measure of the diameter component for this spatial dimension.	0	1
Entity	Species TT Animal	The species of a Track and Trace (TT) animal or batch of animals.		
Attr.	Species Type Code	A code specifying the species type of this TT animal.	1	unbounded
Attr.	Scientific Species Name Type Code	A code specifying the type of scientific species name for this TT animal.	0	unbounded
Attr.	Regulation Species Name Type Code	A code specifying the type of regulation species name for this TT animal.	0	unbounded
Attr.	Trade Species Name Type Code	A code specifying the type of trade species name for this TT animal.	0	unbounded
Entity	Specified Action	The process of doing something in order to make something happen or to deal with a situation.		
Attr.	Type Code	The code specifying the type of action.	0	1
Attr.	Type Text	A type, expressed as text, for this specified action.	0	unbounded
Attr.	Description	A textual description for this specified action.	0	unbounded
Entity	Agricultural Application	Any substance such as seed, fertilizer, water, gas or chemical applied to an agricultural field, substrate, construction, plant, animal or product.		
Attr.	ID	The identifier for this specified agricultural application.	0	1
Assoc.	Referenced Location	A referenced location specified for this specified agricultural application.	0	unbounded
Assoc.	Applied Agricultural Zone Area	A specified agricultural application applied to this agricultural zone area.	0	unbounded
Assoc.	Product Batch	A product batch specified for this specified agricultural application.	0	unbounded
Assoc.	Applied Agricultural Certificate	An agricultural certificate applied to this specified agricultural application.	0	unbounded
Assoc.	Crop Plot	A crop plot specified for this agricultural application.	0	unbounded
Assoc.	Material	A material applied for this agricultural application.	0	unbounded
Assoc.	Chemical Treatment	A chemical treatment applied by this agricultural application.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic specified for this agricultural application.	0	unbounded
Entity	Binary File	A specified computer file or program stored in a binary format.		
Attr.	ID	A unique identifier for this specified binary file.	0	unbounded
Attr.	Title	A title, expressed as text, for this specified binary file.	0	unbounded
Attr.	Author Name	A name of an author, expressed as text, of this specified binary file.	0	unbounded
Attr.	Version ID	The unique version identifier for this specified binary file.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Name	The file name, expressed as text, of this specified binary file.	0	1
Attr.	URI	The unique Uniform Resource Identifier (URI) for this specified binary file.	0	1
Attr.	MIME Code	The code specifying the Multipurpose Internet Mail Extensions (MIME) type for this specified binary file.	0	1
Attr.	Encoding Code	The code specifying the encoding of this specified binary file.	0	1
Attr.	Character Set Code	The code specifying the character set for this specified binary file.	0	1
Attr.	Included Binary Object	A binary object included in this specified binary file.	0	unbounded
Attr.	Access Text	Access information, expressed as text, for this specified binary file, such as security and download parameters.	0	unbounded
Attr.	Description	A textual description of this specified binary file.	0	unbounded
Attr.	Size	The measure of the size of this specified binary file.	0	1
Assoc.	Access Availability Period	The specified period when access to this binary file is available.	0	1
Assoc.	Validity Period	The validity period specified of this binary file.	0	1
Entity	Chemical Treatment	Any substance such as seed, fertilizer, water, gas or chemical applied to an agricultural field, substrate, construction, plant, animal. material or product.		
Attr.	ID	An identifier for this chemical treatment.	0	unbounded
Attr.	Type Code	The code specifying the type of chemical treatment.	0	1
Attr.	Description	A textual description of this chemical treatment.	0	unbounded
Assoc.	Distinct Chemical	A used distinct chemical used for this chemical treatment.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this chemical treatment.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this chemical treatment.	0	unbounded
Entity	Crop Protection Treatment	Any substance such as seed, fertilizer, water, gas or chemical applied to a crop, substrate, construction, plant, animal or product.		
Attr.	ID	An identifier of this crop protection treatment.	0	unbounded
Attr.	Type Code	The code specifying the type of crop protection treatment.	0	1
Attr.	Description	A textual description of this crop protection treatment.	0	unbounded
Assoc.	Material	A material used for this crop protection treatment.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this crop protection treatment.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Process Certificate	A process certificate specified for this crop protection treatment.	0	unbounded
Entity	Specified Direct Position	A specified physical location described within a coordinate reference system.		
Attr.	Name	The name, expressed as text, of the reference for this specified direct position.	0	1
Attr.	Coordinate Reference Dimension Text	A coordinate reference dimension, expressed as text, for this specified direct position.	0	unbounded
Attr.	Axis Label List Text	An ordered list of axis labels, expressed as text, for this specified direct position.	0	unbounded
Attr.	Unit Of Measure Label List Text	An ordered list of Unit Of Measure (UOM) labels, expressed as text, for this specified direct position.	0	unbounded
Attr.	Count	A count for this specified direct position.	0	unbounded
Entity	Specified Fault	An unattractive or unsatisfactory characteristic.		
Attr.	Type Code	The code specifying the type of fault.	0	1
Attr.	Type	A type, expressed as text, applicable for this specified fault.	0	unbounded
Attr.	Description	A textual description of this specified fault.	0	unbounded
Attr.	Total Quantity	The actual total quantity of this specified fault.	0	1
Attr.	Actual Percent	The actual percentage of this specified fault.	0	1
Attr.	Category Code	The code specifying the type of category applicable for this specified fault.	0	1
Attr.	Classification Code	The code specifying the classification applicable for this specified fault.	0	1
Assoc.	Operational Tolerance	An operational tolerance specified for this fault.	0	unbounded
Entity	Geographical Feature	Representation of real world phenomenon associated with a location relative to the Earth, such as cities, buildings, roads, rivers, forests and lakes.		
Attr.	Description	The textual description of this specified geographical feature.	0	1
Attr.	Name	The name, expressed as text, of this specified geographical feature.	0	1
Attr.	Coordinate Reference System ID	The identifier of the coordinate reference system for this geographical feature.	0	1
Assoc.	Polygon	The polygon included in this geographical feature.	0	1
Entity	Geographical Object Characteristic	An attribute of a geographical object.		
Attr.	ID	The identifier for this geographical object characteristic.	0	1
Attr.	Description	The textual description for this geographical object characteristic.	0	1
Attr.	Description Reference Text	The description reference, expressed as text, for this geographical object characteristic.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Name	The name, expressed as text, for this geographical object characteristic.	0	1
Entity	Specified Inspection Result	Specifies the type of the performed examination and/or observation and the acquired values.		
Attr.	ID	An identifier of the inspection result.	0	unbounded
Attr.	Statement	A statement, expressed as text, for this inspection result.	0	unbounded
Attr.	Status Code	The code specifying the status of this inspection result.	0	1
Attr.	Inspection Date Time	The date, time, date time, or other date time value of the examination for this inspection result.	0	1
Attr.	Approval Date Time	The date, time, date time, or other date time value for the approval of this inspection result.	0	1
Attr.	Material Type	A material type, expressed as text, related to this inspection result.	0	unbounded
Attr.	Product Type	A product type, expressed as text, related to this inspection result.	0	unbounded
Attr.	General Characteristic	A general characteristic, expressed as text, for this inspection result, such as length, volume, density, titre, sensitivity, conductivity.	0	unbounded
Attr.	Shareable Indicator	The indication whether or not this inspection result is shareable.	0	1
Assoc.	Obtained Product Certificate	A product certificate obtained by this inspection result.	0	unbounded
Assoc.	Obtained Conformance Certificate	A conformance certificate obtained by this inspection result.	0	unbounded
Assoc.	Obtained Process Certificate	A process certificate obtained by this inspection result.	0	unbounded
Assoc.	Obtained Organizational Certificate	An organization certificate obtained by this inspection result.	0	unbounded
Assoc.	Obtained Sustainability Assertion	A sustainability assertion obtained by this inspection result.	0	unbounded
Assoc.	Inspection Reference	An inspection reference specified for this inspection result.	0	unbounded
Assoc.	Inspection Instructions	Inspection instructions specified for this inspection result.	0	unbounded
Assoc.	Inspection Note	A note attached to the inspection result with additional information and or conclusions.	0	unbounded
Assoc.	Specified Method	A specified method used for this inspection result.	0	unbounded
Assoc.	Referenced Standard	A referenced inspection standard for this inspection result.	0	unbounded
Assoc.	Inspection Party	An inspection party specified for this inspection result.	0	unbounded
Assoc.	Outsourced Inspection Party	An outsourced inspection party specified for this inspection result.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Corrective Action	A corrective action specified for this inspection result.	0	unbounded
Assoc.	Preventive Action	A preventive action specified for this inspection result.	0	unbounded
Assoc.	Specified Action	An specified action applicable for this inspection result.	0	unbounded
Assoc.	Attached Binary File	A binary file attached for this inspection result.	0	unbounded
Assoc.	Inspection Result Characteristic	A characteristic applicable for this inspection result.	0	unbounded
Assoc.	Minimum Standard Value Observation Result Characteristic	A minimum standard value of the values for the characteristic observed or measured by using the specified type of inspection for this inspection result.	0	unbounded
Assoc.	Maximum Standard Value Observation Result Characteristic	A maximum standard value of the values for the characteristic observed or measured by using the specified type of inspection for this inspection result.	0	unbounded
Assoc.	Observed Value Observation Result Characteristic	An observed value for the characteristic, acquired by observing or measuring according to the specified type of inspection for this inspection result.	0	unbounded
Assoc.	Expected Value Observation Result Characteristic	An expected value for the characteristic, to be observed or measured according to the specified type of inspection for this inspection result.	0	unbounded
Assoc.	Sample Observation Result	A laboratory sample observation result specified for this inspection result.	0	unbounded
Entity	Specified Inspection	An examination of a naturally occurring or designed sequence of operations or events.		
Attr.	Description	A textual description of this specified inspection.	0	unbounded
Attr.	Type Code	The code specifying the type of inspection.	0	1
Attr.	Name	The name, expressed as text, for this specified inspection.	0	1
Attr.	Outsourced Indicator	The indication whether or not this inspection is outsourced.	0	1
Assoc.	Execution Party	The specified party executing this specified inspection.	0	1
Assoc.	Inspection Execution Person	The inspection person executing this specified inspection.	0	1
Assoc.	Inspection Event	An inspection event for this specified inspection.	0	unbounded
Assoc.	Inspection Result	The result reported for this specified inspection.	0	1
Assoc.	Referenced Document	A referenced document for this specified inspection.	0	unbounded
Assoc.	Attached Binary File	A binary file for this specified inspection.	0	unbounded
Assoc.	Inspection Status	The status for this specified inspection.	0	1
Entity	Specified Linear Ring	A specified array of points which define a closed loop which is not self intersecting.		

Type	Short Name	Definition	Min	Max
Attr.	Coordinate Text	A coordinate, expressed as text, for this specified linear ring.	0	unbounded
Assoc.	Coordinate Direct Position	The specified direct position of a coordinate for this linear ring.	0	1
Assoc.	Geographical Object Characteristic	The geographical object characteristic associated with this linear ring.	0	1
Entity	Specified Material	A substance out of which something is or could be made to be used as input to produce something.		
Attr.	ID	An identifier for this specified material.	0	unbounded
Attr.	Classification ID	An identifier for the classification of this specified material.	0	unbounded
Attr.	Name	The name, expressed as text, of this specified material.	0	1
Attr.	Type Code	The code specifying the type of specified material.	0	1
Attr.	Description	A textual description of the composition of this specified material.	0	unbounded
Attr.	Description Code	The code specifying the description of this specified material.	0	1
Attr.	Information	Information, expressed as text, for this specified material.	0	unbounded
Attr.	Weight	A weight, expressed as a measure, for this specified material.	0	unbounded
Attr.	Mass	A measure of the mass of this specified material.	0	unbounded
Attr.	Mass Ratio	A mass measure of this specified material expressed as a ratio to another mass, such as the total mass.	0	unbounded
Attr.	Volume	A measure of the volume of this specified material.	0	unbounded
Attr.	Volume Ratio	A volume measure of this specified material expressed as a ratio to another volume, such as the total volume.	0	unbounded
Attr.	Quantity	The quantity applicable for this specified material.	0	1
Attr.	Presence Percent	The percentage of the presence for this specified material.	0	1
Attr.	Status Code	The code specifying the type of specified material.	0	1
Assoc.	Component Material	A component material for this specified material.	0	unbounded
Assoc.	Used Distinct Chemical	A distinct chemical used for this specified material.	0	unbounded
Assoc.	Referenced Location	A referenced location specified for the storage of this material.	0	unbounded
Assoc.	Product Characteristic	A product characteristic applicable for this specified material.	0	unbounded
Assoc.	Material Goods Characteristic	A material goods characteristic applicable to this specified material.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Product Certificate	A product certificate specified for this material.	0	unbounded
Assoc.	Material Waste Recovery Disposal Process	A production waste recovery disposal process specified for this production process waste material.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this specified material.	0	unbounded
Entity	Specified Method	A defined way of performing something.		
Attr.	ID	An identifier applicable for this specified method.	0	unbounded
Attr.	Name	The name, expressed as text, applicable for this specified method.	0	1
Attr.	Obligatory Type Code	The code specifying the type of method obligatory for this specified method.	0	1
Attr.	Standard Type Code	The code specifying the type of method, which is the standard method of the observer party for this specified method.	0	1
Attr.	Local Type Code	The code specifying the type of method, which is the local method of the observer party for this specified method.	0	1
Attr.	External Reference	An external reference, expressed as text, applicable for this specified method.	0	unbounded
Attr.	Information	Information, expressed as text, applicable for this specified method.	0	unbounded
Attr.	Certification Type Code	The code specifying the type of certification applicable for this specified method.	0	1
Attr.	Certification ID	An identifier of the certification applicable for this specified method.	0	unbounded
Attr.	Technology Code	The code specifying the technology used by this specified method.	0	1
Entity	Specified Parameter	A specified feature that is fixed for the case in question but may be different in other cases.		
Attr.	ID	An identifier for this specified parameter.	0	unbounded
Attr.	Type Code	The code specifying the type of this specified parameter.	0	1
Attr.	Type	A type, expressed as text, for this specified parameter.	0	unbounded
Attr.	Description	A textual description for this specified parameter.	0	unbounded
Attr.	Name	The name, expressed as text, for this specified parameter.	0	1
Attr.	Value	The value, expressed as text, for this specified parameter.	0	1
Attr.	Value Measure	A measure value for this specified parameter.	0	unbounded
Attr.	Value Allowed Indicator	The indication whether or not the value for this characteristic parameter is allowed.	0	1
Attr.	Status Code	The code specifying the status of this specified parameter.	0	1
Attr.	Status Value Measure	A measure value of the status for this specified parameter.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this specified parameter.	0	unbounded
Entity	Period	A specified period of time.		
Attr.	Duration Measure	A measure of the length of time for this specified time period such as hours, days, weeks, months, years.	0	unbounded
Attr.	Description	A textual description of this specified period of time.	0	unbounded
Attr.	Start Date Time	The date, time, date time or other date time value for the start of this specified period of time.	0	1
Attr.	End Date Time	The date, time, date time or other date time value for the end of this specified period of time.	0	1
Attr.	Complete Date Time	The date, time, date time or other date time value for a complete specified period of time expressed as a specific month, a specific week, etc.	0	1
Attr.	Season Code	The code specifying the season for this specified period.	0	1
Attr.	ID	The unique identifier of this specified period.	0	1
Attr.	Name	A name, expressed as text, of this specified period.	0	unbounded
Attr.	Sequence Number	A sequence number for this specified period.	0	unbounded
Entity	Specified Polygon	A planar surface, defined by one exterior boundary and zero or more interior boundaries. Each interior boundary defines a hole in the polygon.		
Assoc.	Interior Linear Ring	An interior linear ring specified for this polygon.	0	unbounded
Assoc.	Exterior Linear Ring	The exterior linear specified ring for this polygon.	1	1
Assoc.	Geographical Object Characteristic	The geographical object characteristic associated with this specified polygon.	0	1
Entity	Product Finishing Treatment	Any substance, such as a coating, applied to a product.		
Attr.	ID	An identifier of this product finishing treatment.	0	unbounded
Attr.	Description	A textual description of this product finishing treatment.	0	unbounded
Attr.	Type Code	The code specifying the type of product finishing treatment.	0	1
Assoc.	Used Material	A material used for this product finishing treatment.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this product finishing treatment.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this product finishing treatment.	0	unbounded
Entity	Production Cycle	A series of events for a production.		
Attr.	ID	An identifier for this specified production cycle.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Name	The name for this specified production cycle.	0	1
Attr.	Sequence Number	The sequence number for this production cycle.	0	1
Attr.	Start Date Time	The date or date time value of the start of this production cycle.	0	1
Attr.	End Date Time	The date or date time value of the end of this production cycle.	0	1
Attr.	Production Year Date Time	The date, specified as a year, of the production for this production cycle.	0	1
Assoc.	Production Process	A process applicable to this production cycle.	0	unbounded
Assoc.	Process Document	A process document specified for this production cycle.	0	unbounded
Assoc.	Attached Binary File	A binary file attached for this production cycle.	0	unbounded
Entity	Production Device	An specialized object specified to be used to perform an activity.		
Attr.	ID	An identifier for this specified production device.	0	unbounded
Attr.	Type Code	The code specifying the type of this specified production device.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type for this production device.	0	1
Attr.	Function	A textual description of the function of this production device.	0	unbounded
Attr.	Input Capacity	A measure of the input capacity of this production device, such as maximum reach or average per month.	0	unbounded
Attr.	Output Capacity	A measure of the output capacity of this production device, such as maximum reach or average per month.	0	unbounded
Assoc.	Input Product	An input product for this production device.	0	unbounded
Assoc.	Input Product Batch	An input batch for this production device.	0	unbounded
Assoc.	Input Material	An input material for this production device.	0	unbounded
Assoc.	Output Product	An output product of this production device.	0	unbounded
Assoc.	Output Product Batch	An output batch of this production device.	0	unbounded
Assoc.	Output Material	An output material of this production device.	0	unbounded
Assoc.	Operational Parameter	An operational parameter specified for this production device.	0	unbounded
Assoc.	Requested Operational Parameter	A operational parameter requested for this production device.	0	unbounded
Assoc.	Combined Production Device	A production device combined with this production device.	0	unbounded
Assoc.	Combined Production Machine	A production machine combined with this production device.	0	unbounded
Assoc.	Facility Production Unit	A facility production unit specified for this production device.	0	unbounded
Assoc.	Referenced Location	A referenced location specified for this production device.	0	unbounded

Type	Short Name	Definition	Min	Max
Entity	Specified Range	A row, line or series, commonly used to express the difference between lowest and highest values.		
Attr.	Type Code	The code specifying the type of this specified range.	0	1
Attr.	Start ID	The identifier of the start of this specified range.	0	1
Attr.	End ID	The identifier of the end of this specified range.	0	1
Attr.	Minimum Value	The measure of the minimum value for this specified range.	0	1
Attr.	Maximum Value	The measure of the maximum value for this specified range.	0	1
Attr.	Total Item Quantity	The total number of items in this specified range.	0	1
Attr.	Value Code	The code specifying the value for this specified range.	0	1
Attr.	Value Text	A value, expressed as text, for this specified range.	0	unbounded
Entity	Specified Tolerance	The permissible limit or limits of variation that is fixed for the case in question but may be different in other cases.		
Attr.	Information	Information, expressed as text, specified for this tolerance.	0	unbounded
Attr.	Minus Quantity	The minus quantity specified for this tolerance.	0	1
Attr.	Surplus Quantity	The plus quantity specified for this tolerance.	0	1
Attr.	Minus Percent	The minus percentage specified for this tolerance.	0	1
Attr.	Surplus Percent	The surplus percentage specified for this tolerance.	0	1
Attr.	Margin Number	The value, expressed as a number, of a margin specified for this tolerance.	0	1
Attr.	Margin Percent	The margin percentage specified for this tolerance.	0	1
Entity	Supply Chain Consignment Item	An item within a supply chain consignment of goods separately identified for transport and customs purposes.		
Attr.	ID	A unique identifier for this supply chain consignment item.	0	unbounded
Attr.	Sequence Number	The sequence number for this supply chain consignment item.	0	1
Attr.	Global ID	A global identifier for this supply chain consignment item.	0	unbounded
Attr.	Product Date Time	The date, time, date time, or other date time value related to the product contained in this supply chain consignment item.	0	1
Attr.	Product Date Type Code	The code specifying the product date type, such as expiry or best before, for this supply chain consignment item.	0	1

Type	Short Name	Definition	Min	Max
Assoc.	Associated Document	A referenced document associated with this supply chain consignment item.	0	unbounded
Assoc.	Classification Document	The classification referenced document for this supply chain consignment item.	0	1
Assoc.	Shipping Marks	Physical logistics shipping marks and barcode information for this supply chain consignment item.	0	unbounded
Assoc.	Inspection Event	An inspection event specified for this supply chain consignment item.	0	unbounded
Entity	Supply Chain Consignment	A separately identifiable collection of goods items to be transported or available to be transported from one consignor to one consignee in a supply chain via one or more modes of transport where each consignment is the subject of one single transport contract.		
Attr.	ID	A unique identifier for this supply chain consignment.	0	unbounded
Attr.	Consignor Assigned ID	The unique identifier assigned by the consignor to this supply chain consignment.	0	1
Attr.	Consignee Assigned ID	The unique identifier assigned by the consignee to this supply chain consignment.	0	1
Attr.	Customs ID	A unique identifier, for customs purposes, for this consignment.	0	unbounded
Attr.	Carrier Assigned ID	The unique identifier assigned by the carrier to this supply chain consignment, such as a booking reference number when cargo space is reserved prior to loading.	0	1
Attr.	Freight Forwarder Assigned ID	The unique identifier assigned by the freight forwarder to this supply chain consignment.	0	1
Attr.	Gross Weight	A measure of the gross weight (mass) of this supply chain consignment which includes the weight of packaging but which excludes the weight of any transport equipment.	0	unbounded
Attr.	Net Weight	A measure of the net weight (mass) of this consignment which excludes the weight of packaging of this supply chain consignment and that of any transport equipment.	0	unbounded
Attr.	Gross Volume	A measure of the gross volume, normally calculated by multiplying the maximum length, width and height of this supply chain consignment.	0	unbounded
Attr.	Number Of Packages	The number of packages within this supply chain consignment.	0	1
Attr.	Total Tare Weight	The measure of the total tare weight (mass) of this supply chain consignment.	0	1
Attr.	Package Type Text	A type of package, expressed as text, for this supply chain consignment.	0	unbounded
Attr.	Global ID	A global identifier for this supply chain consignment.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Net Volume Measure	A measure of the net volume of this supply chain consignment item which excludes all packaging.	0	unbounded
Assoc.	Inspection Event	An inspection event specified for this supply chain consignment.	0	unbounded
Assoc.	Transport Event	A transport event specified for this supply chain consignment.	0	unbounded
Assoc.	Consignor	The consignor party for this supply chain consignment.	0	1
Assoc.	Consignee	The consignee party for this supply chain consignment.	0	1
Assoc.	Ship From	The ship from party for this supply chain consignment.	0	1
Assoc.	Ship To	The ship to party for this supply chain consignment.	0	1
Assoc.	Loading Baseport Location	The baseport location at which this supply chain consignment is to be loaded on a means of transport according to the transport contract.	0	1
Assoc.	Unloading Baseport Location	The baseport location at which this supply chain consignment is to be unloaded from a means of transport according to the transport contract.	0	1
Assoc.	Referenced Document	A referenced document associated with this supply chain consignment, such as the certificate of origin or dangerous goods note.	0	unbounded
Assoc.	Classification Document	The classification referenced document for this supply chain consignment.	0	1
Assoc.	Included Consignment Item	A consignment item included in this supply chain consignment.	0	unbounded
Assoc.	Main Carriage	A main carriage logistics transport movement for this supply chain consignment.	0	unbounded
Assoc.	Pre-Carriage	A pre-carriage logistics transport movement for this supply chain consignment.	0	unbounded
Assoc.	On-Carriage	An on-carriage logistics transport movement for this supply chain consignment.	0	unbounded
Assoc.	Origin Country	A country of origin for this supply chain consignment.	0	unbounded
Assoc.	Import Country	The import country for this supply chain consignment.	0	1
Assoc.	Export Country	The export country for this supply chain consignment.	0	1
Assoc.	Trade Transaction	A trade transaction related to this supply chain consignment.	0	unbounded
Assoc.	Associated Party	A trade party associated with this supply chain consignment.	0	unbounded
Assoc.	Shipping Marks	Physical logistics shipping marks and barcoding information related to this supply chain consignment.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Nature ID Cargo	Transport cargo details of this supply chain consignment sufficient to identify its nature for customs, statistical or transport purposes.	0	1
Entity	Supply Chain Event	A significant occurrence or happening in a supply chain.		
Attr.	Occurrence Date Time	A date, time, date time, or other date time value of an occurrence of this supply chain event.	0	unbounded
Attr.	Type Code	A code specifying the type of supply chain event.	0	unbounded
Attr.	Description	A textual description of this supply chain event.	0	unbounded
Assoc.	Actual Inspection Status	The actual inspection status of this supply chain event.	0	1
Assoc.	Occurrence Referenced Location	The referenced location for the occurrence of this supply chain event.	0	1
Assoc.	Technical Characteristic	A technical characteristic related to this supply chain event.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic related to this supply chain event.	0	unbounded
Entity	Supply Chain Inventory	Supply chain goods and materials held in stock.		
Attr.	Stock Quantity	The quantity of stock in this supply chain inventory.	0	1
Attr.	Calculation Date Time	The date, time, date time, or other date time value of the calculation of this supply chain inventory.	0	1
Attr.	Status Code	The code specifying a status for this supply chain inventory.	0	1
Assoc.	Supply Chain Event	A supply chain event specified for this supply chain inventory.	0	unbounded
Assoc.	Included Material	A material included in this supply chain inventory.	0	unbounded
Assoc.	Included Product	A trade product included in this supply chain inventory.	0	unbounded
Assoc.	Included Product Batch	A product batch included in this supply chain inventory.	0	unbounded
Entity	Supply Chain Packaging	Any material with which supply chain goods are packaged, such as a box or bubble wrap.		
Attr.	Type Code	The code specifying the type of supply chain packaging.	0	1
Attr.	Type Text	The type, expressed as text, of supply chain packaging.	0	1
Attr.	Description	A textual description of this supply chain packaging.	0	unbounded
Attr.	Condition Code	A code specifying the condition of this supply chain packaging.	0	unbounded
Attr.	Disposal Method Code	A code specifying the disposal method of this supply chain packaging.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Capacity Measure	The measure of the capacity of this supply chain packaging.	0	1
Attr.	Weight	A measure of the weight of this supply chain packaging.	0	unbounded
Attr.	Instruction Code	A code specifying an instruction for this supply chain packaging.	0	unbounded
Attr.	Level Code	The code specifying a level for this supply chain packaging.	0	1
Attr.	Sequence Number	The number of a sequence of the supply chain packaging.	0	1
Attr.	Returnable Indicator	The indication of whether or not this supply chain packaging is returnable.	0	1
Attr.	Customer Facing Total Unit Quantity	The total number of units of this supply chain packaging facing the customer, such as would be seen when this packaging is placed on a retail shelf.	0	1
Attr.	Total Unit Quantity	A total number of units contained in this supply chain packaging.	0	unbounded
Attr.	Layer Total Unit Quantity	The total number of units in a layer of this supply chain packaging.	0	1
Attr.	Recycled Indicator	The indication whether or not this packaging is made of recycled material.	0	1
Attr.	Recyclable Indicator	The indication whether or not this packaging is recyclable.	0	1
Attr.	Recycled Percent	The percentage of presence recycled material for this packaging.	0	1
Attr.	Content Layer Quantity	The number of content layers that are or may be packaged with this supply chain packaging, such as the number of layers of product on a pallet.	0	1
Assoc.	Dimensions	The linear spatial dimensions of this supply chain packaging.	0	1
Assoc.	Minimum Dimensions	The minimum linear spatial dimensions of this supply chain packaging.	0	1
Assoc.	Maximum Dimensions	The maximum linear spatial dimensions of this supply chain packaging.	0	1
Assoc.	Marking	A marking specified for this supply chain packaging, such as an inscription, stamp or label to indicate date, ownership, quality, manufacture or origin.	0	unbounded
Assoc.	Goods Characteristic	Material goods characteristic applicable to this supply chain packaging.	0	unbounded
Assoc.	Disposal Instructions	Disposal instructions for this supply chain packaging.	0	unbounded
Assoc.	Returnable Asset Instructions	Returnable asset instructions for this supply chain packaging.	0	unbounded
Assoc.	Packaging Instructions	Packing instructions applicable for this supply chain packaging.	0	unbounded
Entity	Supply Chain Schedule	A series of planned activities or things to be done in this supply chain.		

Type	Short Name	Definition	Min	Max
Attr.	Description	A textual description of this supply chain schedule.	0	unbounded
Attr.	ID	An identifier of this supply chain schedule.	0	unbounded
Attr.	Occurrence Date Time	A date, time, date time, or other date time of an occurrence in this supply chain schedule.	0	unbounded
Attr.	Type Code	A code specifying the type of supply chain schedule.	0	unbounded
Attr.	Status Code	A code specifying the status of this supply chain schedule.	0	unbounded
Entity	Supply Chain Trade Line Item	A collection of information specific to an item being used or reported on for supply chain trade purposes.		
Assoc.	Product	A product specified for this supply chain trade line item.	0	unbounded
Assoc.	Substituted Product	A referenced product substituted for this supply chain trade line item.	0	unbounded
Assoc.	Substitute Product	A referenced substitute product applicable for this supply chain trade line item.	0	unbounded
Assoc.	Product Batch	A product batch applicable for this supply chain trade line item.	0	unbounded
Assoc.	Substituted Product Batch	A product batch substituted for this supply chain trade line item.	0	unbounded
Assoc.	Substitute Product Batch	A product batch substitute for this supply chain trade line item.	0	unbounded
Assoc.	Material	A material specified for this supply chain trade line item.	0	unbounded
Assoc.	Substituted Material	A material substituted for this supply chain trade line item.	0	unbounded
Assoc.	Substitute Material	A material substitute for this supply chain trade line item.	0	unbounded
Entity	Supply Chain Trade Transaction	A group of supply chain trade line items, trade agreement, trade delivery and trade settlement details.		
Attr.	Type Code	The code specifying the type of supply chain trade transaction.	0	1
Attr.	Document URL	The Uniform Resource Locator (URL) of the web location of the document for this supply chain trade transaction.	0	1
Assoc.	Referenced Document	A referenced document associated with this supply chain trade transaction, such as the purchase order, invoice or packing list.	0	unbounded
Assoc.	Included Trade Line Item	A trade line item included in this supply chain trade transaction.	0	unbounded
Entity	Sustainability Assertion	A statement of a company that its products or services can meet its customers needs without compromising the ability of future generations to meet their own needs.		
Attr.	ID	An identifier for this sustainability assertion.	0	unbounded
Attr.	Description	A textual description of this sustainability assertion.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Description Code	The code specifying the description for this sustainability assertion.	0	1
Assoc.	Compliance Policy	A compliance policy related to this sustainability assertion.	0	unbounded
Assoc.	Referenced Document	A referenced document specified for this sustainability assertion.	0	unbounded
Entity	Sustainability Characteristic	A prominent attribute or aspect of an object, such as recyclability of a products, which can meet customers needs without compromising the ability of future generations to meet their own needs.		
Attr.	Category Code	The code specifying the category type of sustainability characteristic.	0	1
Attr.	ID	An identifier for this ID sustainability characteristic.	0	unbounded
Attr.	Type Code	The code specifying the type of sustainability characteristic.	0	1
Attr.	Subordinate Type Code	The code specifying the subordinate type of sustainability characteristic.	0	1
Attr.	Description	A textual description of this sustainability characteristic.	0	unbounded
Attr.	Value Measure	A measure of a value for this sustainability characteristic.	0	unbounded
Attr.	Minimum Value	A measure of the minimum value for this sustainability characteristic.	0	unbounded
Attr.	Maximum Value	A measure of the maximum value for this sustainability characteristic.	0	unbounded
Attr.	Measurement Method Code	The code specifying the measurement method for this sustainability characteristic.	0	1
Attr.	Value	A value, expressed as text, for this sustainability characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this sustainability characteristic.	0	1
Attr.	Value Date Time	The value, expressed as a date, time, date time, or other date time value for this sustainability characteristic.	0	1
Attr.	Value Indicator	The value, expressed as an indicator, for this sustainability characteristic.	0	1
Attr.	Content Type Code	The code specifying the content type of this sustainability characteristic.	0	1
Attr.	Shareable Indicator	The indication whether or not this sustainability characteristic is shareable.	0	1
Assoc.	Value Binary File	A value, expressed in a binary file, for this sustainability characteristic.	0	unbounded
Assoc.	Referenced Standard	A referenced standard that is applicable to this sustainability characteristic.	0	unbounded
Assoc.	Inspection Result	An inspection result specified for this sustainability characteristic.	0	unbounded
Assoc.	Value Specified Range	A range specified for the value of this sustainability characteristic.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Value Specified Parameter	A parameter specified for the value of this sustainability characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this sustainability characteristic.	0	unbounded
Assoc.	Related Supply Chain Event	A supply chain event related to this sustainability characteristic.	0	unbounded
Entity	Sustainability Inspection	An examination of sustainability characteristics of an object, such as a product.		
Attr.	Description	A textual description of this sustainability inspection.	0	unbounded
Attr.	Type Code	The code specifying the type of sustainability inspection.	0	1
Attr.	Name	The name, expressed as text, for this sustainability inspection.	0	1
Attr.	Outsourced Indicator	The indication whether or not this sustainability inspection is outsourced.	0	1
Assoc.	Sustainability Characteristic	A characteristic applicable for this sustainability inspection.	0	unbounded
Assoc.	Execution Party	The trade party executing this sustainability inspection.	0	1
Assoc.	Execution Inspection Person	The inspection person executing this sustainability inspection.	0	1
Assoc.	Inspection Event	An inspection event specified for this sustainability inspection.	0	unbounded
Assoc.	Inspection Result	The inspection result specified for this sustainability inspection.	0	1
Assoc.	Referenced Document	A referenced document specified for this sustainability inspection.	0	unbounded
Assoc.	Attached Binary File	A attached binary file for this sustainability inspection.	0	unbounded
Assoc.	Inspection Status	The inspection status specified for this sustainability inspection.	0	1
Entity	TT Aggregation Event	A Track and Trace (TT) event where objects or processes are grouped.		
Attr.	Occurrence Date Time	The date, time, date time, or other date time value at which this TT aggregation event occurred.	1	1
Attr.	Recorded Date Time	The date, time, date time, or other date time value at which this TT aggregation event was recorded.	1	1
Attr.	Parent Object ID	The identifier of the parent object for this TT aggregation event.	0	1
Attr.	Child Object Instance ID	An instance identifier for a child object of this TT aggregation event.	0	unbounded
Attr.	Action Code	The code specifying the action for this TT aggregation event.	1	1
Attr.	Business Step Code	The code specifying the business step for this TT aggregation event.	0	1
Attr.	Disposition Code	The code specifying the disposition related to this TT aggregation event.	0	1

Type	Short Name	Definition	Min	Max
Assoc.	Location	The location related to this TT aggregation event.	0	1
Assoc.	Trade Transaction	A trade transaction specified for this TT aggregation event.	0	unbounded
Assoc.	Child Quantity Event Element	A quantity event element specified for a child of this TT aggregation event.	0	unbounded
Assoc.	Source Party	A source related party for this TT aggregation event.	0	unbounded
Assoc.	Destination Party	A destination related party for this TT aggregation event.	0	unbounded
Assoc.	Read Point Location	The read point related location of this TT aggregation event.	0	1
Entity	TT Object Event	Information about an event concerning one or more physical or digital Track and Trace (TT) objects identified by instance or class level identifiers.		
Attr.	Occurrence Date Time	The date, time, date time, or other date time value at which this TT object event occurred.	1	1
Attr.	Recorded Date Time	The date, time, date time, or other date time value at which this TT object event was recorded.	1	1
Attr.	Object Instance ID	An instance identifier for an object of this TT object event.	0	unbounded
Attr.	Action Code	The code specifying the action for this TT object event.	1	1
Attr.	Business Step Code	The code specifying the business step for this TT object event.	0	1
Attr.	Disposition Code	The code specifying the disposition related to this TT object event.	0	1
Assoc.	Read Point Location	The read point related location of this TT object event.	0	1
Assoc.	Business Location	The business location related to this TT object event.	0	1
Assoc.	Trade Transaction	A trade transaction specified for this TT object event.	0	unbounded
Assoc.	Quantity Event Element	A quantity event element specified for this TT object event.	0	unbounded
Assoc.	Source Party	A source related party for this TT object event.	0	unbounded
Assoc.	Destination Party	A destination related party for this TT object event.	0	unbounded
Entity	TT Transaction Event	Information about an event declaring that certain objects have been associated or disassociated with one or more Track and Trace (TT) trade transactions.		
Attr.	Occurrence Date Time	The date, time, date time, or other date time value at which this TT transaction event occurred.	1	1
Attr.	Recorded Date Time	The date, time, date time, or other date time value at which this TT transaction event was recorded.	1	1

Type	Short Name	Definition	Min	Max
Attr.	Parent Object ID	The identifier of the parent object for this TT transaction event.	0	1
Attr.	Object Instance ID	An instance identifier for an object of this TT transaction event.	0	unbounded
Attr.	Action Code	The code specifying the action for this TT transaction event.	1	1
Attr.	Business Step Code	The code specifying the business step for this TT transaction event.	0	1
Attr.	Disposition Code	The code specifying the disposition related to this TT transaction event.	0	1
Assoc.	Read Point Location	The read point related location of this TT transaction event.	0	1
Assoc.	Business Location	The business location related to this TT transaction event.	0	1
Assoc.	Trade Transaction	A trade transaction specified for this TT transaction event.	1	unbounded
Assoc.	Quantity Event Element	A quantity event element specified for this TT transaction event.	0	unbounded
Assoc.	Source Party	A source related party for this TT transaction event.	0	unbounded
Assoc.	Destination Party	A destination related party for this TT transaction event.	0	unbounded
Entity	TT Transformation Event	Information about an event that captures the relationship between one or more physical or digital objects identified by identifiers, such as an EPC (Electronic Product Code) or EPC class, that are fully or partially consumed as inputs or as outputs.		
Attr.	Occurrence Date Time	The date, time, date time, or other date time value at which this TT transformation event occurred.	1	1
Attr.	Recorded Date Time	The date, time, date time, or other date time value at which this TT transformation event was recorded.	1	1
Attr.	Input Object Instance ID	An instance identifier for an input object of this TT transformation event.	0	unbounded
Attr.	Output Object Instance ID	An instance identifier for an output object of this TT transformation event.	0	unbounded
Attr.	Disposition Code	The code specifying the disposition related to this TT transformation event.	0	1
Attr.	Business Step Code	The code specifying the business step for this TT transformation event.	0	1
Assoc.	Read Point Location	The read point related location of this TT transformation event.	0	1
Assoc.	Business Location	The business location related to this TT transformation event.	0	1
Assoc.	Trade Transaction	A trade transaction specified for this TT transformation event.	0	unbounded
Assoc.	Input Quantity Event Element	A quantity event element specified for an input of this TT transformation event.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Output Quantity Event Element	A quantity event element specified for an output of this TT transformation event.	0	unbounded
Assoc.	Source Party	A source related party for this TT transformation event.	0	unbounded
Assoc.	Destination Party	A destination related party for this TT transformation event.	0	unbounded
Entity	TT Animal	A Track and Trace (TT) animal or a group of animals, such as those kept or raised on a farm, ranch.		
Attr.	Type Code	The code specifying the type of species and subclasses of this TT animal, such as bovine, sheep or salmon.	1	1
Assoc.	Individual Animal	The individual tracking animal specified for this TT animal.	0	1
Assoc.	Species	A species specified for this TT animal.	0	unbounded
Assoc.	Animal Certificate	A animal certificate specified for this TT animal.	0	unbounded
Entity	TT Event Element	Information about an event in which a Track and Trace (TT) element of one of more physical or digital objects is identified by a specific object class identifier (such as an electronic product class), either a specific quantity or an unspecified quantity.		
Attr.	Object Class ID	The identifier of the object class for this TT event element.	1	1
Attr.	Unit Quantity	The number of units of this TT event element.	0	1
Entity	TT Location	A physical place related to a Track and Trace (TT) process.		
Attr.	ID	The identifier for this TT location.	0	1
Attr.	Name	A name, expressed as text, of this TT location.	0	unbounded
Attr.	Type Code	The code specifying the type of TT location.	0	1
Attr.	Description	A textual description of this TT location.	0	unbounded
Entity	TT Party	An individual, group, or body related to a Track and Trace (TT) process.		
Attr.	ID	An identifier for this TT party.	1	unbounded
Attr.	Type Code	A code specifying the type of TT party.	0	unbounded
Attr.	Name	The name, expressed as text, for this TT party.	0	1
Attr.	Role Code	A code specifying the role of this TT party.	0	unbounded
Attr.	Residence Country Code	The identifier for the country of residence for this TT party, such as the country in which a person lives or in which a corporation has its place of incorporation.	0	1
Attr.	Type ID	An identifier of the type for this TT party.	0	unbounded
Entity	TT Trade Transaction	An agreement, contract, exchange, understanding, or transfer of cash or property related to a Track and Trace (TT) process.		
Attr.	ID	The identifier for this TT trade transaction.	1	1

Type	Short Name	Definition	Min	Max
Attr.	Type ID	The identifier for the type of TT trade transaction.	0	1
Entity	Tax Registration	Registration with a specific tax authority.		
Attr.	ID	The unique identifier for this tax registration.	0	1
Attr.	IOSS ID	The Import One Stop Shop (IOSS) identifier for this tax registration.	0	1
Entity	Technical Characteristic	A prominent technical attribute or aspect.		
Attr.	Type Code	A code specifying the type of technical characteristic.	0	unbounded
Attr.	Subordinate Type Code	The code specifying the subordinate type for this technical characteristic.	0	1
Attr.	Value Measure	The measure of the value of this technical characteristic.	0	1
Attr.	Description	The textual description of this technical characteristic.	0	1
Attr.	Measurement Method Code	The code specifying the measurement method for this technical characteristic.	0	1
Attr.	ID	The identifier for this technical characteristic.	0	1
Attr.	Value Number	The value, expressed as a number, for this technical characteristic.	0	1
Attr.	Value	A value, expressed as text, for this technical characteristic.	0	unbounded
Attr.	Value Code	The code specifying the value of this technical characteristic.	0	1
Attr.	Value Date Time	The value, expressed as a date, time, date time, or other date time value. for this technical characteristic	0	1
Attr.	Value Indicator	The value, expressed as an indicator, for this technical characteristic.	0	1
Assoc.	Value Specified Range	A range specified for the value of this technical characteristic.	0	unbounded
Assoc.	Value Specified Parameter	A parameter specified for the value of this technical characteristic.	0	unbounded
Assoc.	Value Specified Tolerance	A tolerance specified for the value of this technical characteristic.	0	unbounded
Assoc.	Referenced Standard	A referenced standard related to this technical characteristic.	0	unbounded
Assoc.	Supply Chain Event	A technical characteristic related to this supply chain event.	0	unbounded
Entity	Toxicological Hazardous Material	Material which exhibits adverse effects on living organisms.		
Attr.	Reproductive Toxin Name	The name, expressed as text, of the reproductive toxin in this toxicological hazardous material.	0	1
Attr.	Description	The textual description of this toxicological hazardous material.	0	1
Attr.	Entry Route Description	A textual description of the entry route of this toxicological hazardous material.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Biological Severity Description	The textual description of the biological severity of this toxicological hazardous material.	0	1
Assoc.	Product Certificate	A product certificate specified for this toxicological hazardous material.	0	unbounded
Assoc.	Product Characteristic	A product characteristic applicable for this toxicological hazardous material.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic applicable for this toxicological hazardous material.	0	unbounded
Entity	Trade Product Certification	The process of certifying that a certain product has passed performance and quality assurance tests, or qualification requirements stipulated in regulations.		
Attr.	Assertion Code	A code specifying an assertion for this trade product certification, such as claim that a product is free from peanuts.	0	unbounded
Attr.	Responsible Agency Text	The agency, expressed as text, responsible for this trade product certification.	0	1
Attr.	Assertion Text	An assertion, expressed as text, for this trade product certification, such as that this product is free from peanuts.	0	unbounded
Attr.	Standard Text	The standard, expressed as text, for this trade product certification.	0	1
Assoc.	Sustainability Assertion	A sustainability assertion for this trade product certification.	0	unbounded
Entity	Trade Address	The location at which a particular trade related organization or person may be found or reached.		
Attr.	ID	A unique identifier for this trade address.	0	unbounded
Attr.	Postcode	A code specifying the postcode of this trade address.	0	unbounded
Attr.	Post Office Box	The unique identifier, expressed as text, of a container commonly referred to as a box, in a post office or other postal service location, assigned to a person or organization, where postal items may be kept for this trade address.	0	1
Attr.	Building Name	The name, expressed as text, of a building, a house or other structure on a street at this trade address.	0	1
Attr.	Line One	The first free form line, expressed as text, of this trade address.	0	1
Attr.	Line Two	The second free form line, expressed as text, of this trade address.	0	1
Attr.	Line Three	The third free form line, expressed as text, of this trade address.	0	1
Attr.	Line Four	The fourth free form line, expressed as text, of this trade address.	0	1
Attr.	Line Five	The fifth free form line, expressed as text, of this trade address.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Street Name	A name, expressed as text, of a street or thoroughfare for this trade address.	0	unbounded
Attr.	City Name	The name, expressed as text, of the city, town or village of this trade address.	0	1
Attr.	City Sub-Division Text	A name, expressed as text, of a sub-division of a city for this trade address, for example a district or borough.	0	unbounded
Attr.	Country Code	The unique identifier of a country for this trade address.	0	1
Attr.	Country Name	A name, expressed as text, of the country for this trade address.	0	unbounded
Attr.	Country Sub-Division Code	A unique identifier of the country sub-division for this trade address.	0	unbounded
Attr.	Country Sub-Division Name	A name, expressed as text, of the sub-division of a country for this trade address.	0	unbounded
Attr.	Attention Of	The name, expressed as text, of a person or department in the organization to whom incoming mail is marked with words such as 'for the attention of' or 'FAO' or 'ATTN' for this trade address.	0	1
Attr.	Care Of	The name, expressed as text, of a person or organization at this trade address to whom incoming mail is marked with words such as 'care of' or 'C/O'.	0	1
Attr.	Building Number	The building number, expressed as text, in this trade address.	0	1
Attr.	Secondary Postcode	A code specifying a secondary postcode of this trade address.	0	unbounded
Attr.	Free Form Text	A free form representation, expressed as text, of this trade address.	0	unbounded
Attr.	Department Name	The name, expressed as text, of a department for this trade address.	0	1
Attr.	Additional Street Name	The additional name of a street, expressed as text, for this trade address.	0	1
Attr.	City ID	The identifier of the city for this trade address, such as United Nations Location Code (UNLOCODE).	0	1
Attr.	Type Code	A code specifying the type of this trade address, such as business address or home address.	0	unbounded
Assoc.	Geographical Coordinate	An identification of a set of geographical coordinates for this trade address.	0	unbounded
Entity	Trade Contact	A person or a department that acts as a point of contact with another person or department in a trading relationship.		
Attr.	ID	The unique identifier for this trade contact.	0	1
Attr.	Person Name	The name, expressed as text, of this trade contact person.	0	1
Attr.	Department Name	The name, expressed as text, of the department to which this trade contact belongs within an organization.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Type Code	The code specifying the type of trade contact.	0	1
Attr.	Job Title	The job title, position or designation, expressed as text, of this trade contact within an organization, such as Director, Software Engineer, Purchasing Manager.	0	1
Attr.	Responsibility Text	A responsibility, expressed as text, of this trade contact.	0	unbounded
Attr.	Person ID	A unique identifier for this trade contact person.	0	unbounded
Attr.	Authorized Person Name	The name, expressed as text, of the authorized person for this trade contact.	0	1
Assoc.	Telephone	Telephone communication information for this trade contact.	0	unbounded
Assoc.	Direct Telephone	The direct telephone communication information for this trade contact.	0	1
Assoc.	Mobile Telephone	The mobile telephone communication information for this trade contact.	0	1
Assoc.	Fax	Fax communication information for this trade contact.	0	unbounded
Assoc.	URI	Uniform Resource Identifier (URI) communication information for this trade contact, such as a web or an email address.	0	unbounded
Assoc.	Email Address	The email URI communication information for this trade contact.	0	1
Assoc.	Telex	Telegraphy (Telex) communication information for this trade contact.	0	unbounded
Assoc.	VOIP	Voice Over Internet Protocol (VOIP) communication information for this trade contact.	0	unbounded
Assoc.	Instant Messaging	Instant messaging communication information for this trade contact.	0	unbounded
Assoc.	Note	A note specified for this trade contact.	0	unbounded
Assoc.	Person	The contact person specified for this trade contact.	0	1
Assoc.	EDI	Electronic Data Interchange (EDI) communication information for this trade contact.	0	unbounded
Entity	Trade Country	The area of land that belongs to a nation together with its properties, such as population, political organization, etc., used or referenced for trade purposes.		
Attr.	Code	A unique identifier for this trade country.	0	unbounded
Attr.	Name	A name, expressed as text, of this trade country.	0	unbounded
Entity	Trade Party	An individual, a group, or a body having a role in a trade business function.		
Attr.	ID	A unique identifier of this trade party.	0	unbounded
Attr.	Global ID	A globally unique identifier of this trade party.	0	unbounded
Attr.	Type Code	A code specifying the type of trade party that is independent of its role.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Name	The name, expressed as text, for this trade party.	0	1
Attr.	Role Code	A code specifying the role of this trade party.	0	unbounded
Attr.	Quality Assurance Indicator	The indication of whether or not this trade party is quality assured.	0	1
Attr.	GLN ID	A Global Location Number (GLN) identifier for this trade party.	0	unbounded
Attr.	Language Code	A code specifying a language for this trade party.	0	unbounded
Attr.	Description	A textual description of this trade party.	0	unbounded
Attr.	Role Text	A role, expressed as text, for this trade party.	0	unbounded
Attr.	Brand Name	The brand name, expressed as text, for this trade party.	0	1
Assoc.	Legal Organization	The legally constituted organization specified for this trade party.	0	1
Assoc.	Defined Contact Details	A trade contact defined for this trade party.	0	unbounded
Assoc.	Postal Address	The postal address for this trade party.	0	1
Assoc.	Telephone	A telephone communication for this trade party.	0	unbounded
Assoc.	Fax	A fax communication for this trade party.	0	unbounded
Assoc.	URI	A Uniform Resource Identifier (URI) communication for this trade party, such as a web or email address.	0	unbounded
Assoc.	Email Address	The email communication for this trade party.	0	1
Assoc.	Provided Transport Service	A transport service provided by this trade party.	0	unbounded
Assoc.	Tax Registration	A tax registration specified for this trade party.	0	unbounded
Assoc.	Logo Binary File	A file containing a specified binary representation of a logo associated with this trade party.	0	unbounded
Assoc.	Government Registration	A governmental registration specified for this trade party.	0	unbounded
Assoc.	Subcontractor	A subcontractor party for this trade party.	0	unbounded
Assoc.	Production Facility	A production facility specified for this trade party.	0	unbounded
Assoc.	Organization Certification	A organization certification specified for this trade party.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this trade party.	0	unbounded
Assoc.	Product Batch Certificate	A product batch certificate specified for this trade party.	0	unbounded
Assoc.	Product Certificate	A product certificate specified for this trade party.	0	unbounded
Assoc.	Organization Certificate	An organization certificate specified for this trade party.	0	unbounded
Assoc.	Provided Production Process	A production process provided by this trade party.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainable characteristic specified for this trade party.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Technical Characteristic	A technical characteristic specified for this trade party.	0	unbounded
Assoc.	Product	A trade product related to this trade party.	0	unbounded
Assoc.	Product Batch	A product batch related to this trade party.	0	unbounded
Assoc.	Material	A material related to this trade party.	0	unbounded
Assoc.	Inspection	An inspection applicable for this trade party.	0	unbounded
Assoc.	Sustainability Inspection	An sustainability inspection specified for this trade party.	0	unbounded
Entity	Trade Product Group	A grouping of trade products.		
Attr.	ID	An identifier for this trade product group.	0	unbounded
Attr.	Name	The name, expressed as text, for this trade product group.	0	1
Assoc.	Subordinate Product Group	A product group subordinate to this product group.	0	unbounded
Assoc.	Referenced Document	A referenced document specified for this product group.	0	unbounded
Assoc.	Colour Size Range	A range specified for the colour and size combination of this end use trade product group.	0	unbounded
Entity	Trade Product Instance	An individual trade product or batch of similar trade products produced by human or mechanical effort or by a natural process.		
Attr.	Global Serial ID	The unique global serial identifier for this trade product instance.	0	1
Attr.	Batch ID	The unique batch identifier for this trade product instance.	0	1
Attr.	Supplier Assigned Serial ID	The unique supplier assigned serial identifier for this trade product instance.	0	1
Attr.	Manufacturer Assigned Serial ID	The unique manufacturer assigned serial identifier for this trade product instance.	0	1
Attr.	Serial ID	A unique serial identifier for this trade product instance.	0	unbounded
Attr.	ID	A unique identifier for this trade product instance.	0	unbounded
Attr.	EPC	The Electronic Product Code (EPC) identifier for this trade product instance.	0	1
Attr.	DNA Marker ID	The DNA marker identifier for this trade product instance.	0	1
Attr.	Ceramic Capacitor ID	The ceramic capacitor identifier for this trade product instance.	0	1
Entity	Trade Product	Any tangible output or service produced by human or mechanical effort or by a natural process for trade purposes.		
Attr.	ID	A unique identifier for this trade product.	0	unbounded
Attr.	Global ID	A unique global identifier for this trade product.	0	unbounded
Attr.	Seller Assigned ID	The unique seller assigned identifier for this trade product.	0	1
Attr.	Buyer Assigned ID	The unique buyer assigned identifier for this trade product.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Manufacturer Assigned ID	A unique manufacturer assigned identifier for this trade product.	0	unbounded
Attr.	Model ID	A unique model identifier for this trade product.	0	unbounded
Attr.	Name	A name, expressed as text, for this trade product.	0	unbounded
Attr.	Trade Name	A trade name, expressed as text, for this trade product.	0	unbounded
Attr.	Description	A textual description for this trade product.	0	unbounded
Attr.	Type Code	A code specifying the type of trade product.	0	unbounded
Attr.	Net Weight	A measure of the net weight (mass) of this trade product.	0	unbounded
Attr.	Gross Weight	A measure of the gross weight (mass) of this trade product.	0	unbounded
Attr.	GTIN ID	A Global Trade Item Number (GTIN) identifier for this trade product.	0	unbounded
Attr.	Status Code	A code specifying a status for this trade product.	0	unbounded
Attr.	Product Group ID	A unique identifier for a product group for this trade product.	0	unbounded
Attr.	Net Volume	A measure of a net volume for this trade product.	0	unbounded
Attr.	Production Lead Time Measure	A measure of the production lead time for this trade product.	0	unbounded
Attr.	Gross Volume	A measure of the gross volume for this trade product.	0	unbounded
Attr.	End Item Type Code	A code specifying a type of end item for this trade product.	0	unbounded
Attr.	End Item Name	An end item name, expressed as text, for this trade product.	0	unbounded
Attr.	Tracking System ID	An identifier for a tracking system of this trade product.	0	unbounded
Attr.	Batch ID	A batch identifier for this trade product.	0	unbounded
Attr.	From Production Life Span Measure	The measure of the life span of this trade product from date of production.	0	1
Attr.	Latest Product Data Change Date Time	The date, time, date time, or other date time value of the latest change in the product data for this trade product.	0	1
Attr.	Use Description	A textual description of a use of this trade product.	0	unbounded
Attr.	Variant Description	A textual description of a variant of this trade product.	0	unbounded
Attr.	Additional Description	An additional textual description for this trade product.	0	unbounded
Attr.	Brand Name	The brand name, expressed as text, for this trade product.	0	1
Attr.	Sub-Brand Name	The sub-brand name, expressed as text, for this trade product.	0	1
Attr.	Configurable Indicator	The indication of whether or not this trade product is configurable.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Serial Number Marked Indicator	The indication of whether or not this trade product is marked with a serial number.	0	1
Attr.	Pre-Packaged Indicator	The indication of whether or not this trade product is pre-packaged.	0	1
Attr.	Colour Code	The code specifying the colour for this trade product.	0	1
Attr.	Colour Description	A textual description of the colour of this trade product.	0	unbounded
Attr.	Recycling Type Code	The code specifying the type of recycling for this trade product.	0	1
Attr.	Unit Type Code	A code specifying a type of unit for this trade product.	0	unbounded
Attr.	Content Unit Quantity	The number of content units of this trade product.	0	1
Attr.	Inner Pack Content Unit Quantity	The number of content units in an inner pack of this trade product.	0	1
Attr.	Inner Pack Quantity	The number of inner packs of this trade product.	0	1
Attr.	Included Product Content Unit Quantity	The number of content units of products included in this trade product.	0	1
Attr.	Included Product Type Quantity	The number of different product types included at the next lower level in this trade product.	0	1
Attr.	Consumer Age Description	A consumer age description, expressed as text, for this trade product.	0	unbounded
Attr.	Consumer Gender Description	A consumer gender description, expressed as text, for this trade product.	0	unbounded
Attr.	Season Description	A season description, expressed as text, for this trade product.	0	unbounded
Attr.	Size Description	A size description, expressed as text, for this trade product.	0	unbounded
Attr.	Brand Range Name	The brand range name, expressed as text, for this trade product.	0	1
Attr.	Model Name	The model name, expressed as text, for this trade product.	0	1
Attr.	Season Code	A code specifying a season for this trade product.	0	unbounded
Attr.	Regulation Conformity ID	An identifier assigned to indicate conformity with a regulation or standard for this trade product, such as "CE" which declares that the product conforms with the essential requirements of the applicable EC directives.	0	unbounded
Attr.	Function Description	A textual description of a function for this trade product.	0	unbounded
Attr.	EPC	The Electronic Product Code (EPC) identifier for this trade product.	0	1
Attr.	Colour Matching Sample ID	An identifier of the colour matching sample for this trade product.	0	unbounded

Type	Short Name	Definition	Min	Max
Attr.	Colour Matching Light Source Code	The code specifying the type of light source used for colour matching of this trade product.	0	1
Attr.	Collection ID	A collection identifier for this trade product.	0	unbounded
Attr.	Collection Status Code	The code specifying the collection status of this trade product.	0	1
Attr.	Drop Number	The drop number specified for this trade product.	0	1
Attr.	Type Description	A textual description of the type for this trade product.	0	unbounded
Attr.	Subordinate Type Code	The code specifying the subordinate type of trade product.	0	1
Attr.	Subordinate Type Description	A textual description of the subordinate type for this trade product.	0	unbounded
Attr.	Function Type Code	The code specifying the type of function for this trade product.	0	1
Attr.	Quality Level Code	The code specifying the quality level for this trade product.	0	1
Attr.	Product Data Issue Date Time	The date, time, date time, or other date time value of the product data issuance for this trade product.	0	1
Attr.	Description Code	The code specifying the description of this trade product.	0	1
Attr.	Section Code	The code specifying the section of this trade product.	0	1
Attr.	Line	The line, expressed as text, for this trade product.	0	1
Attr.	Variant ID	A variant identifier for this trade product.	0	unbounded
Attr.	Size Code	The code specifying the size of this trade product.	0	1
Attr.	Print Design ID	An identifier of the print design for this trade product.	0	unbounded
Attr.	Print Design Description	A textual description of the print design for this trade product.	0	unbounded
Attr.	Consumer Gender Code	The code specifying the gender of the consumer for this trade product.	0	1
Attr.	Recycled Indicator	The indication whether or not this trade product is recycled.	0	1
Attr.	Recyclable Indicator	The indication whether or not this trade product is recyclable.	0	1
Attr.	Recycled Material Percent	The percentage of presence recycled material for this trade product.	0	1
Attr.	Reusable Indicator	The indication whether or not this product is reusable.	0	1
Attr.	Life Cycle Stage Code	The code specifying the life cycle stage for this trade product.	0	1
Attr.	Agricultural Species Code	The code specifying the agricultural species for this trade product.	0	1
Attr.	CITES Species Code	The code specifying the Convention on International Trade in Endangered Species (CITES) for this trade product.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Customs Statistical Classification Code	The code specifying the customs statistical classification code for this trade product.	0	1
Attr.	Piece Indicator	The indication of whether or not this trade product is a piece, such as a piece of fabric.	0	1
Attr.	DNA Marker ID	The DNA marker identifier for this trade product.	0	1
Attr.	Bio Based Indicator	The indication of whether or not this trade product is bio based.	0	1
Assoc.	Characteristic	A characteristic applicable to this trade product.	0	unbounded
Assoc.	Classification	A product classification designated for this trade product.	0	unbounded
Assoc.	Individual Product Instance	An individual instance of this trade product.	0	unbounded
Assoc.	Substitute Product	A referenced product that may substitute for this trade product.	0	unbounded
Assoc.	Substituted Product	A referenced product that is substituted by this trade product.	0	unbounded
Assoc.	Packaging	Packaging applicable for use with this trade product.	0	unbounded
Assoc.	Origin Country	A country of origin for this trade product.	0	unbounded
Assoc.	Dimensions	Linear spatial dimensions of this trade product.	0	unbounded
Assoc.	Manufacturer	A manufacturer party for this trade product.	0	unbounded
Assoc.	End User	An end user party for this trade product.	0	unbounded
Assoc.	Distributor	A distributor trade party for this trade product.	0	unbounded
Assoc.	MSDS Document	A Material Safety Data Sheet (MSDS) document referenced for this product.	0	unbounded
Assoc.	Additional Document	An additional referenced document for this trade product, such as a manual or a certificate.	0	unbounded
Assoc.	Brand Owner	The party that owns the brand of this trade product.	0	1
Assoc.	Included Product	An included product referenced from this trade product.	0	unbounded
Assoc.	Information Note	An information note for this trade product.	0	unbounded
Assoc.	Disposal Instructions	Disposal instructions applicable to this trade product.	0	unbounded
Assoc.	Certification	A certification applicable to this trade product.	0	unbounded
Assoc.	Product Certificate	A product certificate specified for this trade product.	0	unbounded
Assoc.	Specified Period	A period applicable for this product.	0	unbounded
Assoc.	Referenced Location	A product certificate specified for this trade product.	0	unbounded
Assoc.	Related Consignment	A supply chain consignment related to this product.	0	unbounded
Assoc.	Related Delivery	A header trade delivery related to this trade product.	0	unbounded
Assoc.	Related Party	A party related to this trade product.	0	unbounded

Type	Short Name	Definition	Min	Max
Assoc.	Subcontractor	A subcontractor for this trade product.	0	unbounded
Assoc.	End Use Product Group	A end use product group specified for this trade product.	0	unbounded
Assoc.	Product Colour	A colour specified for this trade product.	0	unbounded
Assoc.	Product Print	A product print specified for this trade product.	0	unbounded
Assoc.	Colour Size Range	A range specified for the colour and size combination of this trade product.	0	unbounded
Assoc.	Product Group	A product group specified for this trade product.	0	unbounded
Assoc.	Component Material	A material component for this trade product.	0	unbounded
Assoc.	Product Finishing Treatment	A product finishing treatment specified for this trade product.	0	unbounded
Assoc.	Chemical Treatment	A chemical treatment specified for this trade product.	0	unbounded
Assoc.	Technical Characteristic	A technical characteristic specified to this trade product.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainable characteristic applicable to this trade product.	0	unbounded
Assoc.	Photographical Picture	A photographic picture specified for this trade product.	0	unbounded
Assoc.	Product Label	A product label specified for this trade product.	0	unbounded
Assoc.	Product Care Label	A product care label specified for this trade product.	0	unbounded
Assoc.	Production Process	A related production process for this trade product.	0	unbounded
Assoc.	Supply Chain Event	A supply chain event specified for this trade product.	0	unbounded
Assoc.	Sustainability Inspection	A sustainability inspection specified for this trade product.	0	unbounded
Assoc.	Inspection	An inspection applicable for this trade product.	0	unbounded
Assoc.	Quality Parameter	A quality parameter specified for this trade product.	0	unbounded
Assoc.	Specified Fault	A product fault applicable for this specified trade product.	0	unbounded
Assoc.	Sustainability Assertion	A sustainability assertion related to this trade product.	0	unbounded
Assoc.	Specified Inspection	A specified inspection related to this trade product.	0	unbounded
Assoc.	Related TT Animal	A Track and Trace (TT) animal, such as one kept or raised on a farm, ranch related to this trade product.	0	unbounded
Assoc.	Preservation Method	A preservation method specified for this trade product.	0	unbounded
Assoc.	Included Referenced Product	An included product referenced for this trade product.	0	unbounded
Entity	Transport Waste Recovery Disposal Process	A process of either regaining substances in usable form, or of getting rid of substances regarding transport waste.		

Type	Short Name	Definition	Min	Max
Attr.	Type Code	The code specifying the type of transport waste recovery disposal process.	0	1
Attr.	Description	A textual description for the type of transport waste recovery disposal process.	0	unbounded
Assoc.	Process Certificate	A process certificate specified for this transport waste recovery disposal process..	0	unbounded
Entity	Transport Waste Component	An unused and rejected as unwanted component of transport material.		
Attr.	Type Code	A code specifying a type of transport waste material component.	0	unbounded
Attr.	Description	A textual description for this transport waste material component.	0	unbounded
Assoc.	Product Certificate	A product certificate specified for this transport waste material component.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic specified for this transport waste material component.	0	unbounded
Entity	Transport Waste Material	Any materials unused and rejected as unwanted during a transport movement.		
Attr.	Type Code	The code specifying the type of transport waste material.	0	1
Assoc.	Included Waste Material Component	A material component included in this transport waste.	0	unbounded
Assoc.	Product Certificate	A product certificate specified for this transport waste material.	0	unbounded
Assoc.	Sustainability Characteristic	A sustainability characteristic specified for this transport waste material.	0	unbounded
Assoc.	Transport Waste Recovery Disposal Process	A transport waste recovery disposal process specified for this transport waste material.	0	unbounded
Entity	Transport Cargo	Information about goods being transported identifying their nature for customs, statistical or transport purposes.		
Attr.	Type Code	The code, such as UNECE Recommendation 21 single digit codes, specifying the type of transported cargo.	0	1
Attr.	Identification Text	Identification, expressed as text, of this transport cargo that is sufficient to identify it for customs, statistical or transport purposes.	0	unbounded
Attr.	Operational Category Code	The code specifying the operational category for this transport cargo, such as obnoxious or military.	0	1
Attr.	Statistical Classification Code	The code specifying a statistical classification for this transport cargo.	0	1
Entity	Transport Event	A significant occurrence or happening during transport.		
Attr.	ID	The unique identifier for this transport event.	0	1
Attr.	Type Code	The code specifying the type of transport event.	0	1
Attr.	Description	The textual description of this transport event.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Actual Occurrence Date Time	The actual date, time, date time, or other date time value of the occurrence of this transport event.	0	1
Attr.	Unit Quantity	The number of units for this transport event.	0	1
Assoc.	Occurrence Location	The logistics location where this transport event occurs.	0	1
Entity	Transport Route	A way or course taken from one location to another for the purpose of transporting cargo and or passengers.		
Attr.	ID	The unique identifier of this transport route.	0	1
Attr.	Description	The textual description of this transport route.	0	1
Attr.	Departure Point Text	A departure point, expressed as text, for this transport route.	0	unbounded
Attr.	Map Binary Object	Binary object data that is the map of this transport route.	0	1
Attr.	Transport Means Text	A means of transport, expressed as text, for this transport route.	0	unbounded
Attr.	Frequency Type Code	The code specifying the type of frequency for this transport route, such as weekly, bi-monthly or daily.	0	1
Attr.	Status Code	The code specifying a status for a transport route, such as planned or actual.	0	1
Attr.	Security Level Code	A code specifying a security level for this transport route.	0	unbounded
Assoc.	Itinerary Stop Event	An itinerary stop event for this transport route, such as a port call in a vessel schedule.	0	unbounded
Assoc.	Specified Transport Movement	The logistics transport movement specified for this transport route.	0	1
Entity	Transport Service	A service associated with a transport movement.		
Attr.	ID	The unique identifier of this transport service.	0	1
Attr.	Description	The textual description of this transport service.	0	1
Attr.	Name	The name, expressed as text, of this transport service.	0	1
Attr.	Charge Amount	The monetary value of the charge for this transport service.	0	1
Attr.	Condition Type Code	A code specifying a type of condition for this transport service, such as a contract or carriage condition.	0	unbounded
Attr.	Category Type Code	A code specifying a type of category for this transport service.	0	unbounded
Attr.	Priority Code	The code specifying the priority of this transport service.	0	1
Attr.	Service Requirement Code	A code specifying a service requirement for this transport service.	0	unbounded
Attr.	Information Text	Information, expressed as text, for this transport service.	0	unbounded
Attr.	Payment Arrangement Code	The code specifying the payment arrangement for this transport service.	0	1

Type	Short Name	Definition	Min	Max
Attr.	Reason Code	A code specifying a reason for this transport service.	0	unbounded
Entity	Communication	The exchange of thoughts, messages, or information, as universally exchanged by speech, signals, writing, or behaviour between persons and/or organizations.		
Attr.	URI	The Uniform Resource Identifier (URI), such as a web or an email address, for this universal communication.	0	1
Attr.	Complete Number	The text string of characters that make up the complete number for this universal communication.	0	1
END				

10 Annex II. Code Lists

Note: Below Ebiz code lists have been mapped to data elements within the Textile and Leather Reference Data Model. They are not yet checked by the stakeholders, and should be regarded as a suggestion.

10.1 Process related code lists

ID	Code List Name	Production Process	Agency
T200	Type of job on raw material	Type Code	eBiZ
T201	Type of job on yarn	Subordinate Type Code	
T202	Type of job on fabric		
T205	Type of job in knitting/clothing		
T15	Dye/print process type		
T20	Type of darning operation		
T261	Type of job technology for yarn	Operation Technology Code	eBiZ
T262	Type of job technology for fabric		
NT39	Consumption type	Material Consumption / Reference Type Code Trade Product Consumption / Reference Type Code Product Batch Consumption / Reference Type Code	eBiZ
NT40	Manufacturing note qualifiers	Note / Subject Code	eBiZ
NT43	Operational code qualifier	Operational Reference Code	eBiZ
T14	FAST tests	Specified Inspection / Specified Inspection Result /	eBiZ
NT38	Colour Test	Specified Method / Type Code	
T57	Color fastness test for yarn		
T25	Yarn check specimen		
NT12	Data source	Exchanged Document / Sender Trade Party	eBiZ
NT12	Data source (CV Test after steaming)	Exchanged Document / Sender Trade Party	eBiZ
T281	Parameter type for yarn operation	Operational Parameter / Operational Parameter Type	eBiZ
T282	Parameter type for fabric operation	Code	
T52	Fabric piece status	Product / Status Code	eBiZ
T271	Machine type for yarn operation	Production Machine / Type Code	eBiZ
T272	Machine type for fabric operation	Production Device / Type Code	
T275	Type of machine for knitting/clothing		
T47	Stock type	Inventory Type. Code	eBiZ

10.2 Product related code lists

ID	Code List Name	Product	Agency
NT30	Raw material family	Product Group	eBiZ
NT31	Yarn family		
NT32	Fabric family		

ID	Code List Name	Product	Agency
T41	Type of Allowance or Charge	Product Group / Allowance Charge / Type Code	eBIZ
NT26	Color type	Colour Code	eBIZ
NT26	Color type	Product Colour / Type Code	eBIZ
NT38	Colour test	Product Colour / Test Method Code	eBIZ
T421	Size system: nationality	Colour Size Range / Size System Code	eBIZ
T422	Size system: market segment	Colour Size Range / Market Segment Code	eBIZ
T423	Size system: base	Colour Size Range / Size Base System. Code	eBIZ
T16	Dye stuff type	Product Colour / Used Colouring Production Material / Type Code	eBIZ
T54 T19	Kind of yarn Fibre type	Type Code	eBIZ
T17 T56	Weave type Kind of yarn ply	Sub Type Code	eBIZ
NT73	Gender	Consumer Gender Type Code	eBIZ
T58	Yarn quality parameters	Quality Specified Parameters	eBIZ
T12	Fabric faults	Specified Fault / Type Code	eBIZ
NT13	Fabric fault category	Product Fault / Category Code	eBIZ
NT14	Fabric fault shape	Product Fault / Classification Code	eBIZ
T13	CFM properties of fabric	Technical Characteristic / Mechanical Characteristic / Type Code	eBIZ
T264	Fabric printing technology	Product Print / Printing Method / Printing Technology Type Code	eBIZ
T24 T263	Yarn characteristics type Type of warper beam	Product Characteristic / Type Code	eBIZ
T22	Raw material characteristics type	Material Goods Characteristic / Type Code	eBIZ
T49	Chemical elements	Sustainability Characteristic / Type Code	eBIZ
T59	CIE illuminant	Product Colour / Used Light Source Code	eBIZ
NT22	Product type of an operation	End Item Type Code	eBIZ
T60	CIE standard observer	Product Colour / Referenced Standard / Type Code	eBIZ
T45	Fabric print parameter type	Product Print / Specified Method / Specified Parameter / Type Code	eBIZ
NT17	Textiles collection status	Collection Status Code	eBIZ
T51	Light source type	Colour Sample Matching Light Source. Code	eBIZ
NT71	Picture resolution type	Photographical Picture / Resolution Type Code	eBIZ
NT72	Picture final use type	Photographic Picture / Intended Use Code	eBIZ
NT41 T44	NT41 garment attributes Additional code type	Product Characteristic / Type Code	eBIZ
T48	T48 garment part type	Product Part Type Code	eBIZ
NT33	Type of informatic address	Referenced Document URI / Channel Code	eBIZ
NT4	End use	Product Group / End Use Product Group / Type. Code	eBIZ
T29 T30 T32 T33 T4 T5	Type of yarn package Support of yarn package – material Yarn reel wrapping type Yarn outer packing Fabric piece inner packing (wrapping) 1 Fabric piece inner packing (wrapping) 2	Packaging / Type Code	eBIZ
NT51	Filling Criterion for Package homogeneity	Packaging / Instructions / Handling Code	eBIZ

10.3 Product batch related code lists

ID	Code List Name	Product Batch	Agency
T421	Size system: nationality	Colour Size_ Range / Size System Code	eBIZ
T422	Size system: market segment	Colour Size Range / Market Segment Code	eBIZ
T423	Size system: base	Colour Size Range / Size Base System Code	eBIZ
T16	Dye stuff type	Product Colour / Used Colouring Production Material / Type Code	eBIZ
T54	Kind of yarn	Type Code	eBIZ
T19	Fibre type		
T17	Weave type	Sub Type Code	eBIZ
T56	Kind of yarn ply		
T12	Fabric faults	Specified Fault / Type Code	eBIZ
NT13	Fabric fault category	Specified Fault / Category Code	eBIZ
NT14	Fabric fault shape	Specified Fault / Classification Code	eBIZ
T24	Yarn characteristics type	Product Batch Characteristic / Type Code	eBIZ
T263	Type of warper beam		
NT71	Picture resolution type	Photographical Picture / Resolution Type Code	eBIZ
NT72	Picture final use type	Photographic Picture / Intended_ Use. Code	eBIZ
T29	Type of yarn package	Packaging / Type Code	eBIZ
T30	Support of yarn package –		
T32	material		
T33	Yarn reel wrapping type		
T4	Yarn outer packing		
T5	Fabric piece inner packing (wrapping) 1		
	Fabric piece inner packing (wrapping) 2		
NT51	Filling Criterion for Package homogeneity	Packaging / Instructions / Handling Code	eBIZ

10.4 Location related code lists

ID	Code List Name	Location	Agency
T10	ISO3166 - Country	Trade Address / Country Code (Identifier)	eBIZ

10.5 Party related code lists

ID	Code List Name	Party	Agency
NT2	Third party qualifier	Role Code	eBIZ
T10	ISO3166 - Country	Trade Address / Country Code (Identifier)	eBIZ
NT60	Language, codes from ISO 639-1 (subset)	Language Code	eBIZ

10.6 Transport related code lists

ID	Code List Name	Transport	Agency
T11	Transport package type	Consignment / Transport Package / Type Code	eBIZ
T37	Movement unit type		
T6	Fabric piece outer packing		
T40	Type of transport means	Used Transport Means	eBIZ
NT11	Transport causal	Reason Code	eBIZ
T38	Transport conditions	Consignment Transport Service Condition Type Code	eBIZ
T3	Terms of delivery	Consignment / Delivery Terms	eBIZ
T8	Modes of Transport	Mode Code	eBIZ

10.7 Currency related

ID	Code List Name		Agency
NT19	Currency use qualifier	Qualified QDT's	eBIZ
T9	ISO4217 - Currency	Currency Code / Content	eBIZ

10.8 Date related

ID	Code List Name		Agency
NT29	Format of a date	Date Time. Format. Text	eBIZ

10.9 Data related

ID	Code List Name		Agency
NT3	Data format	TBD	eBIZ

10.10 Payment related

ID	Code List Name		Agency
T1	Terms of payment	Trade_ Payment Terms. Type. Code	eBIZ
T2	Modes of payment	Trade_ Payment Means. Type. Code	eBIZ
T34	Yarn payment type	Trade_ Payment Terms. Type. Code	

10.11 Price related

ID	Code List Name		Agency
NT20	Price qualifier	Gross Price_ Product. Trade_ Price Net Price_ Product. Trade_ Price	eBIZ
NT27	Type of retail price	TBD	eBIZ

10.12 Quantity related

ID	Code List Name		Agency
NT37	Committed quantity qualifier	TBD	eBIZ
NT7	Unit of measure	Measure Unit Code	eBIZ
T46	Quantity variance reason	Delivery Quantity Variation Reason Code	eBIZ

10.13 Measurement related

ID	Code List Name		Agency
T36	Service measure mode	Measure Unit Code	eBIZ
T55	Count system	TBD	eBIZ

10.14 Status related

ID	Code List Name		Agency
NT5	Action code	Document Line / Status Code	eBIZ
NT35	Stock offer status	Exchanged Document / Status Code	eBIZ
NT36	Stock offer status reason	Status Reason Code	eBIZ

10.15 Tax related

ID	Code List Name		Agency
NT16	VAT rate or code	Trade Tax. Rate Code	eBIZ
T61	Duty or tax or fee type	Trade Tax Type Code	eBIZ
T62	Duty or tax or fee category	Trade Tax Category Code	eBIZ

10.16 Document related

ID	Code List Name		Agency
NT1	Order type	QDT Document Code Type	eBIZ
NT10	Despatch Advise type	QDT Document Code Type	eBIZ
NT15	Textiles Quality Report type	TBD	eBIZ
NT18	Message function	QDT Message Function Code Type	eBIZ
NT24	Textile Dyeing-Finishing Order type	TBD	eBIZ
NT25	Type of Transport Order	QDT Document Code Type	eBIZ
NT9	Despatch Request type	QDT Document Code Type	eBIZ
T18	Invoice type	QDT Invoice Document Code Type	eBIZ

ID	Code List Name		Agency
T21	Type of document	QDT Document Code Type	eBIZ
NT100	eBIZ TCFUpstream version	Document Context Parameter / Document Version	eBIZ

10.17 Identification related

ID	Code List Name		Agency
NT6	Coding system owner/issuer	TBD	eBIZ

Internal Review