

EAN.UCC XML
Business Message
Standard For
Inventory Status Advice

Version 1.3

July 2003



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Purpose

The purpose of this Business Message Standard is to provide the necessary information to implement this message as part of the EAN.UCC System. The information contained within this document is a direct result of the work conducted by the EAN.UCC's Plan Business Requirements Group.

The content of this document is actually a collection of material from several different sources to create a single source of information that will provide the necessary basics to understand and implement this EAN.UCC Business Message Standard. The core of this document originates from the Business Requirements Document that is created by the Business Requirements Groups to define the business needs that are to be addressed by this Message. The document then provides the technical details needed to implement the message: a report from the Global Data Dictionary, StyleSheet and Instance File.

This Business Message Standard is meant to be used in conjunction with the EAN.UCC XML Schemas that are available on the EAN and UCC websites. The implementer of these standards needs to be aware of the interrelationship amongst the XML Schemas and the importance of using only interoperable versions.

The reader will notice as they progress through this document that there are several different 'levels' of information that is presented. We begin with the business rationale for the message and then move into the technical details of how and what is needed to exchange this message. This design is deliberate to reach the broadest audience and to meet their needs. Based upon the reader's experience and intentions, specific sections of this document may be more valuable than others. This design and content of this document is based upon the direct feedback from our user community and as such, we are constantly revising and refining how and what we present.

Background

EAN.UCC Business Message Standard:	Inventory Status Advice	
Business Requirement Group:	Deliver	
Business Requirement Document:	Inventory Status Advice	
Business Requirements Group Manager:	Philip Jerred	e.Centre
Global Data Dictionary:	EAN.UCC Global Data Dictionary v1.3	
Schemas:	EAN.UCC Schemas v1.3	
Schemas have been tested on Parser(s) and Version(s):	XML Spy Version 4.4, Xerces, XSV	

***Business Requirements Group
(BRG)***

**Business Requirements
Document For
INVENTORY STATUS ADVICE**

Version 2.4

June 30, 2003

DOCUMENT HISTORY

Document Number:	2.4
Document Version:	2.4
Document Issue Date	June 30, 2003

Document Summary

Document Title	EAN•UCC – Business Requirements Document For “Inventory Status Advice”
Owner	BRG Deliver Chairperson(s): Doug Harness & Debra Noyes Philip Jerred- BRG Manager philip.jerred@e-centre.org.uk
Status	ITRG Approved

Document Change History Log

Date of Change	Version	Reason for Change	Summary of Change	CCR #
August 14, 2002	0.1	Document creation		01-000083
August 23, 2002	1.0	Incorporate IUML/BUML/BRD review comments.	Optimized the reuse of classes. Measurement and Quantity classes have be replaced and their appendices have been removed. Measurement now uses string and quantity uses float. Inventory Item class was added to improve the model. No business requirements have been changed.	01-000083
September 11, 2002	2.0	Incorporate BRG approved changes to allow alternatives to the GTIN and GLN; and to remove the business requirement acknowledging receipt of the advice.	Deleted reference in 1.4. Changed the business requirements in Section 2.0, 2.1.1, 2.1.2, 2.1.4 and 2.1.8, the diagram in 2.2, the classes listed in 4.0 and the class diagram, appendix 1 to delete the need for acknowledgements and to provide for GTIN and alternative identification of items and for GLN and alternative identification for warehouses.	01-000083
October 1, 2002	2.1	Incorporate BRG meeting comments	1. Changed supplier to owner of goods in sections 1,2 and 4. 2. Revised audience in 1.3. 3. Changed Item Status Code List Class to Item Status List with new attributes in section 4 and on appendix 1. 4. Added a class named Date to provide for an expiration date, production date and available for	01-000083

			sale date in section 4 and on appendix 1. 5. Updated acknowledgements list.	
October 21, 2002	2.2	Incorporate comments from the public review period.	In 4.9 two attribute names have been revised. Product recall is now recall and product returns is now returns. Appendix 1 was also changed to match 4.9.	01-000083
April 9, 2003	2.3	Harmonisation version 2.3		
June 30, 2003	2.4	Incorporation of ITRG Harmonisation comments	Replaced Entity Identification, and Measurement Class Diagram	

Approvals

Name	Title	Signature	Date

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Forward

The purpose of the Business Requirements Document (BRD) is to document a process-to-data approach using the Unified Modeling Language (UML) notation. Processes and their business requirements are clearly understood because of the use of formal modeling with the UML models. Agreed to models permit the application of the data elements to support the processes. The biggest benefit of this process-to-data approach is the alignment of the model to fit the business need.

1.0 Business Opportunity

1.1 Introduction

Change Request # 01-000083 requests an inventory status advice be created for use by manufacturers, suppliers or 3PL (Third Party Logistics Providers) (referred to as Owner Of Goods in this BRD) to communicate inventory levels.

1.2 Problem Statement

The Owner Of Goods have a need to know the levels of inventory in a warehouse, which is any inventory location, and a method to communicate the inventory levels between the warehouse and the suppliers of the inventory. The Inventory Status Advice is intended to accomplish the communication of inventory levels.

1.3 Audience

The audience for this document is the global business community being any business that stores or owns goods at one or more points in the supply chain.

1.4 References

- Change Request #01-000083

1.5 Acknowledgements

BRG Deliver

Doug Harness	Fleming Companies, Inc.	BRG Co-Chairperson
Debra Noyes	Johnsonville Sausage, L.L.C.	BRG Co-Chairperson
Regina a. De Baker	Watkins Associated Industries	BRG Member
Becky Dettling	3M Company	BRG Member
Sue Donarski	Schneider Logistics	BRG Member
K. Wayne Gingerich	Werner Enterprises	BRG Member
Stephanie Hodge-Daniels	Levi Strauss & Co.	BRG Member
Phillip Jerred	E Centre	Global BRG Manager
Miriam van Kreijl	Albert Heijn	BRG Member
Kari Melhus	Target Corporation	BRG Member
Jeff Miller	Kraft Foods, Inc.	BRG Member
Mike Osiecki	Best Buy Company, Inc.	BRG Member
Jim Rodriguez	Uniform Code Council	BRG Global Director
Stef Spaan	EAN Netherlands	BRG Member
Tom Heist	Uniform Code Council	Global Business Process Modeler

Distribution Task Group

Paul Martin	General Mills	Task Group Member
Ed Jesus	CHEP	Task Group Member
Paula Giovanetti	Arrow Products	Task Group Member

2.0 Process View – General Requirements

During the planning process the supplier and the warehouse shall establish:

- reporting intervals
- trade items to be reported

The warehouse shall identify:

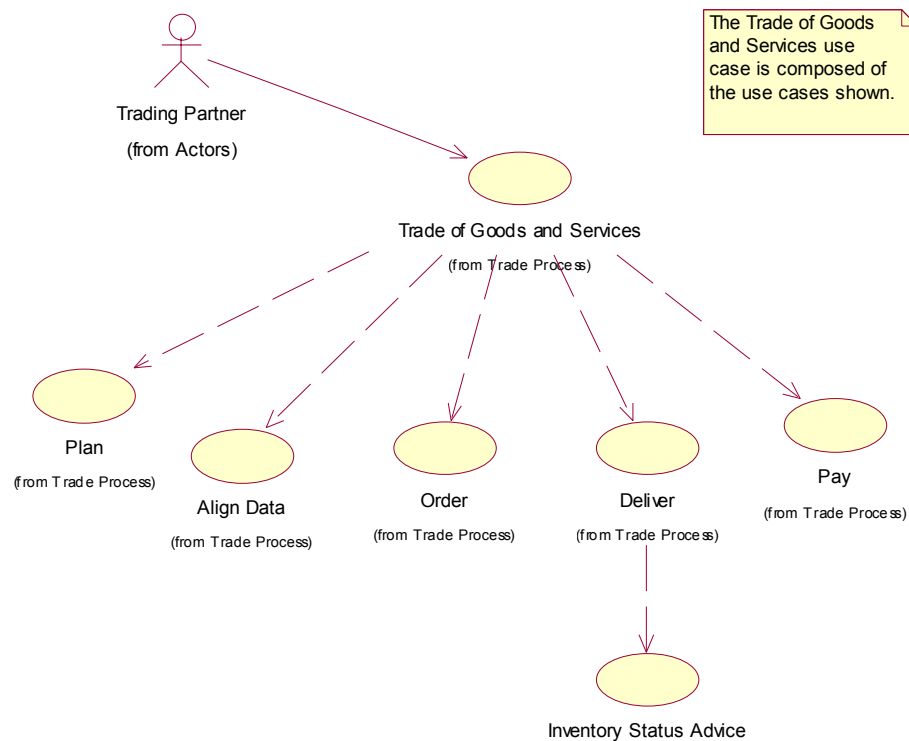
- trade items using the Global Trade Item Number (GTIN) or an alternative identifier
- their location using their Global Location Number (GLN) or an alternative identifier

The inventory status advice shall include:

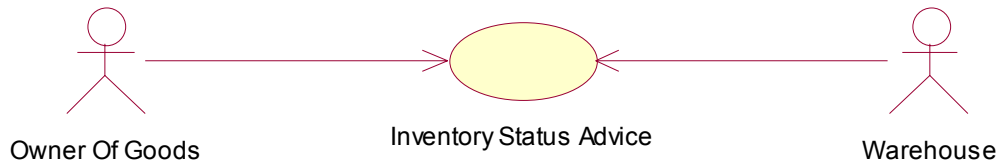
- a unique identification number
- the date of the status advice
- the unit of measure for each trade item
- the quantity in inventory

The inventory status advice may include:

- the lot number(s) for the trade item



2.1 Use Case Scenario: Advise Owner Of Goods Of Inventory Status



2.1.1 Business Opportunities/Problem Statement

Owner Of Goods have a need to know at prescribed intervals the inventory levels of trade items in a warehouse. The warehouse will provide the inventory level information to the owner of goods using a standard message called an Inventory Status Advice.

2.1.2 Stakeholders: Actors

- Warehouse: any inventory location – a place where goods are stored.
- Owner Of Goods

2.1.3 Process Start State

The process is triggered by the agreed upon date and time for sending the inventory status advice.

2.1.4 Process End State

The Owner Of Goods receives the inventory status advice.

2.1.5 Preconditions

The reporting dates and times have been agreed upon by both trading partners.

2.1.6 Successful End Condition

The Owner Of Goods receives an inventory status advice.

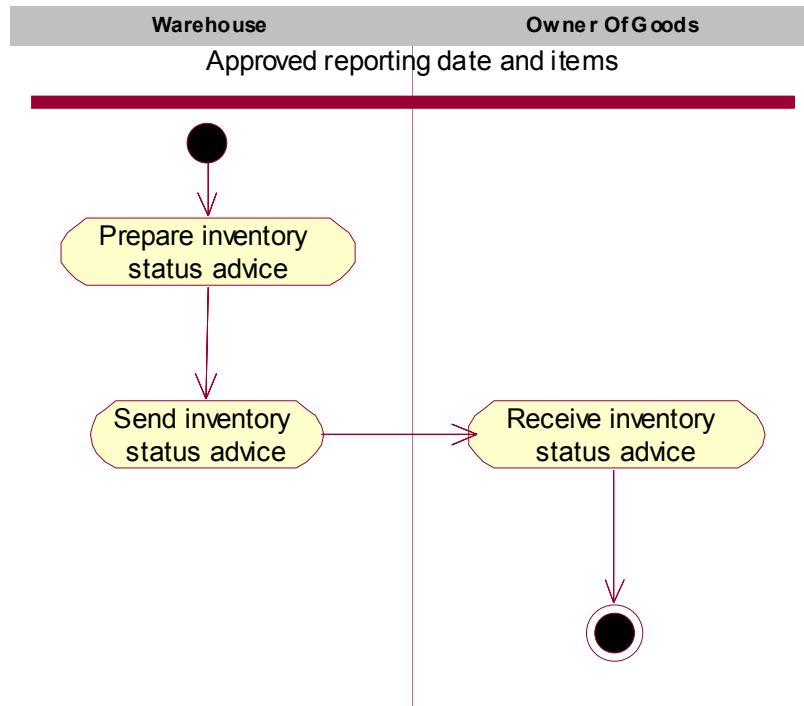
2.1.7 Failed End Condition

The Owner Of Goods does not receive an inventory status advice.

2.1.8 Main Process Flow

1. Warehouse prepares the inventory status advice on the specified date and time.
2. Warehouse transmits the message.
3. The Owner Of Goods receives the message.

2.2 Activity Diagram: Processing the Inventory Status Advice



3.0 Logical View

There are no code extensions for this message.

The class diagram for Inventory Status Advice, Appendix 1, uses color coding. Red is used to indicate the root class for these business requirements. Gray is used to indicate classes that are common to more than one class diagram, supporting the practice and benefits of class re-usability. Yellow indicates classes that are specific at this time to the root class.

As a reference to readers, the class diagrams for the gray common classes shown on the Inventory Status Advice Class Diagram (Appendix 1) are also included as additional appendices.

4.0 Inventory Status Advice Data Classes

The following is a listing of the supporting data classes. These data classes are described in the sections below and are illustrated in the attached class diagrams.

- Document
- Entity Identification
- Inventory Trade Item
- Inventory Status Advice
- Measurement Value
- Party Identification
- Trade Item Identification
- Trade Item Status List

4.1 Document

This external class originates from Document and is a class that is used in many class diagrams. This class includes the date and time of the message. This class is mandatory. It contains four attributes.

- Content Version
- Creation Date
- Document Structure Version
- Last Update Date

4.2 Entity Identification

This class originates from Entity Identification in the common library and is used in many class diagrams to identify creator unique identification numbers. This class is used to provide a unique identification number to the inventory status advice message. This class is mandatory. It contains one attribute

- Unique Creator Identification

4.3 Inventory Trade Item

This class is used to provide the reporting of one or many trade items in the inventory status advice. This class is mandatory and has 4 attributes. The dates are related to the trade items or the lot of trade item (identified as the Trade Item Lot Number)

- Available For Sale Date
- Expiration Date
- Production Date
- Trade Item Lot Number

4.4 Inventory Status Advice

Inventory Status Advice is the root class for these business requirements. It is inherited from the Document class.

There are two possible associations with Party Identification class,

- for Warehouse Location (mandatory),
- for an alternate Warehouse Location (optional), possible multiple occurrences.

There are two mandatory associations

- with Entity Identification with a inventory status advice identification,
- with Inventory Trade Item (possible multiple occurrences).

The root class has no attributes.

4.5 Measurement Value

This external class originates from Measurement and is a class that is used in many class diagrams. This class includes the number of units (quantity) and unit of measure being reported as the inventory. There is multiple and numerous possible unit of measures. The EAN.UCC system refers to the UN/Cefact's UN/ECE Recommendation 20 list for the possible unit of measure. The unit of measure is not broken down into categories of UOM such as "Time UOM, Weight UOM, Dimensional UOM, or Net Content UOM". It's a list of all the possible units of measure. This class is mandatory. It contains one attribute.

- Unit Of Measure

4.6 Party Identification

This class originates from Party Identification in the common library and is used to provide the location of a party using the Global Location Number (GLN) or an alternate party identifier that can be selected from the alternate party identification list. The inventory status advice requires that the warehouse be identified. This class provides for that identification and also for the use of an alternative warehouse location. This class is mandatory for the warehouse and optional for the alternate warehouse location.

4.7 Trade Item Identification

This class originates from Trade item Identification in the common library and is used to provide the identification of trade items using the Global Trade Identification Number (GTIN) or an alternate trade item identification. All trade items shall be identified and this class provides for the identification of trade items. This class is mandatory.

4.8 Trade Item Status List

This class is specific to the inventory status advice and provides an enumeration list for the reporting of an trade item's status. This class is mandatory. The attributes for this class are:

- Allocated for order
- Available for sale
- Damaged
- In transit
- On hand
- On hold
- Recall
- Returns

5.0 Global Data Dictionary: Data Attributes for Inventory Status Advice

InventoryStatusAdvice

InventoryTradeItem

availableForSaleDate: TBD

expirationDate: TBD

productionDate: TBD.

tradeItemLotNumber: TBD.

TradeItemStatusList

ALLOCATED_FOR_ORDER: TBD

AVAILABLE_FOR_SALE: TBD

DAMAGED: TBD

IN_TRANSIT: TBD

ON_HAND: TBD

ON_HOLD: TBD

RECALL: TBD

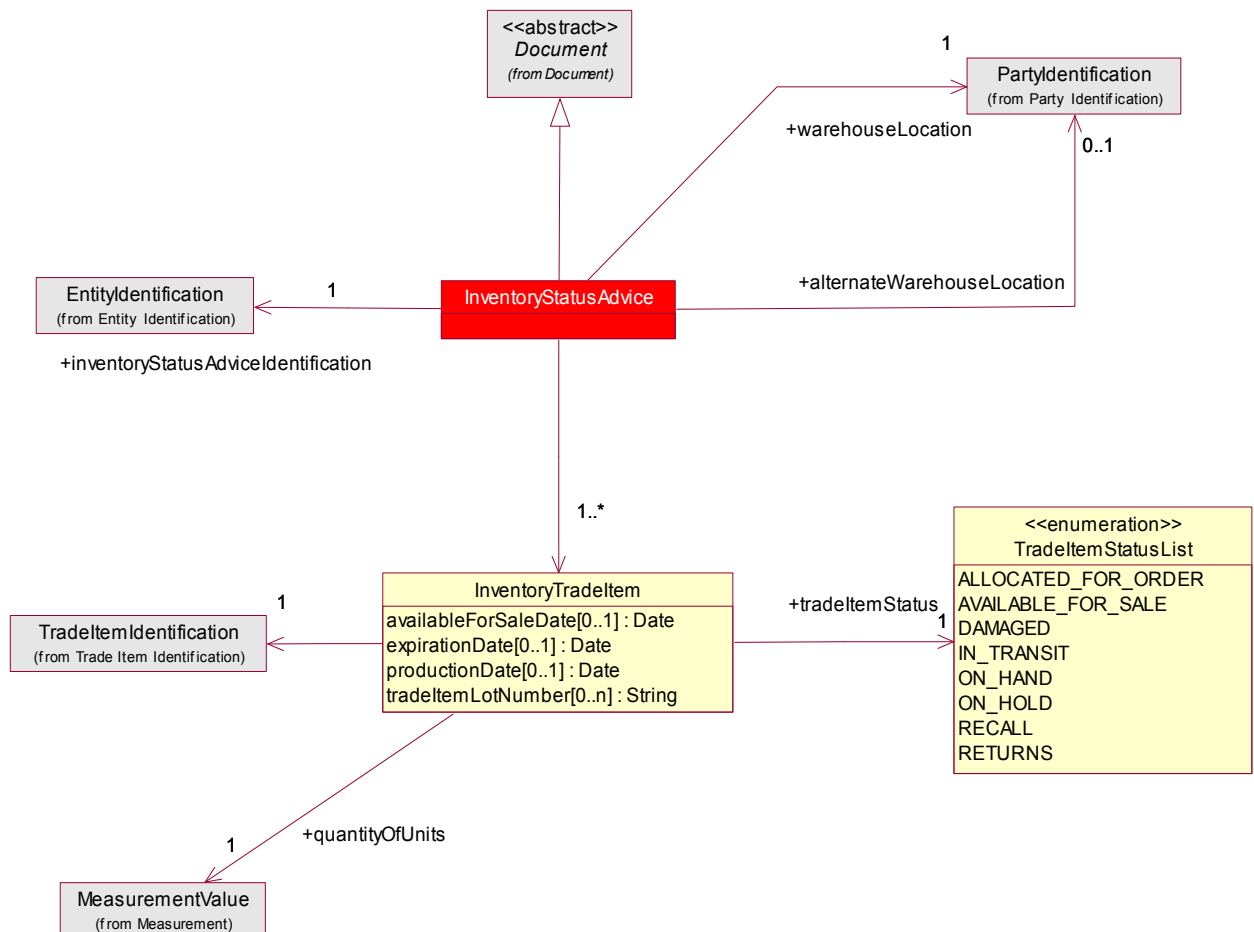
RETURNS: TBD

Appendices:

The following class diagrams are informative and included only for the reader's reference.

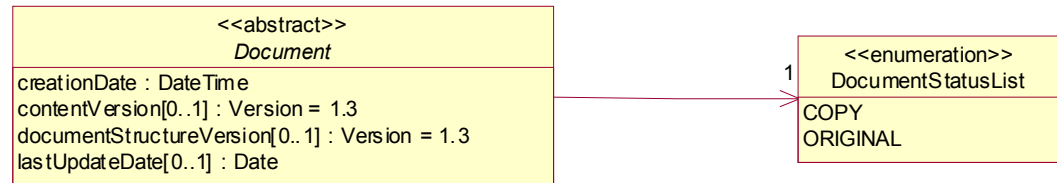
Appendix 1: Class Diagram for Inventory Status Advice

Business Process: DELIVER: Inventory Status Advice



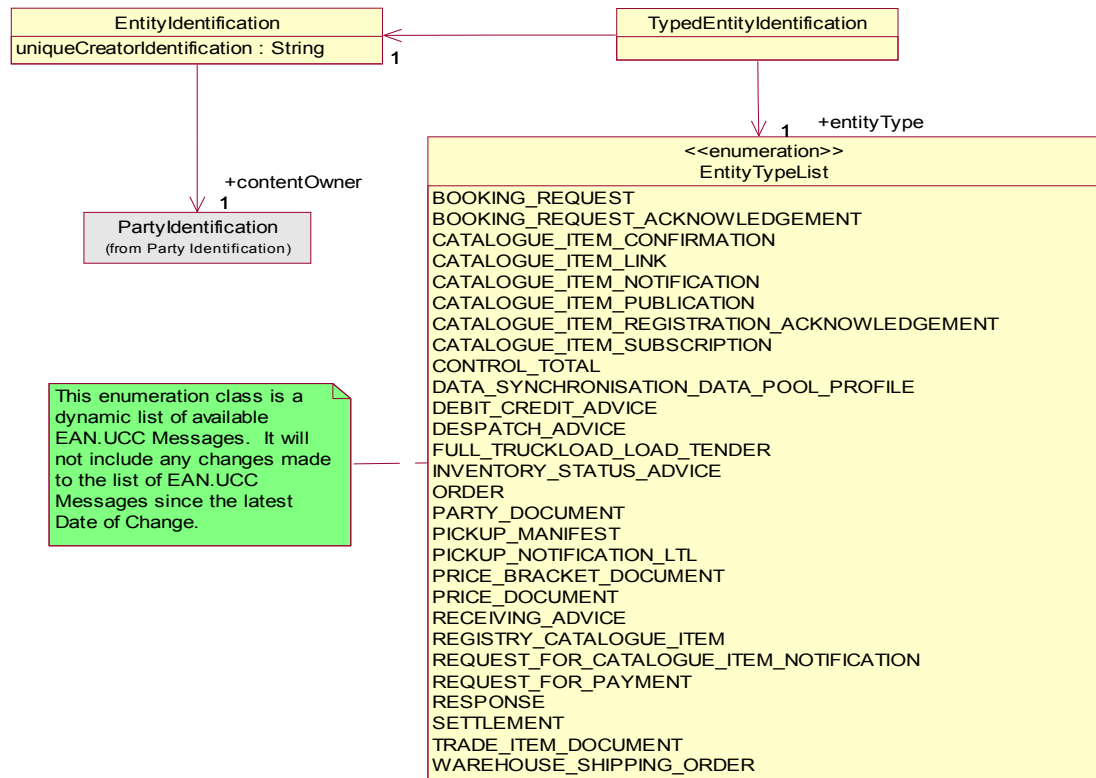
Appendix 2: Class Diagram From Document

Common Library :Common: Components: Document



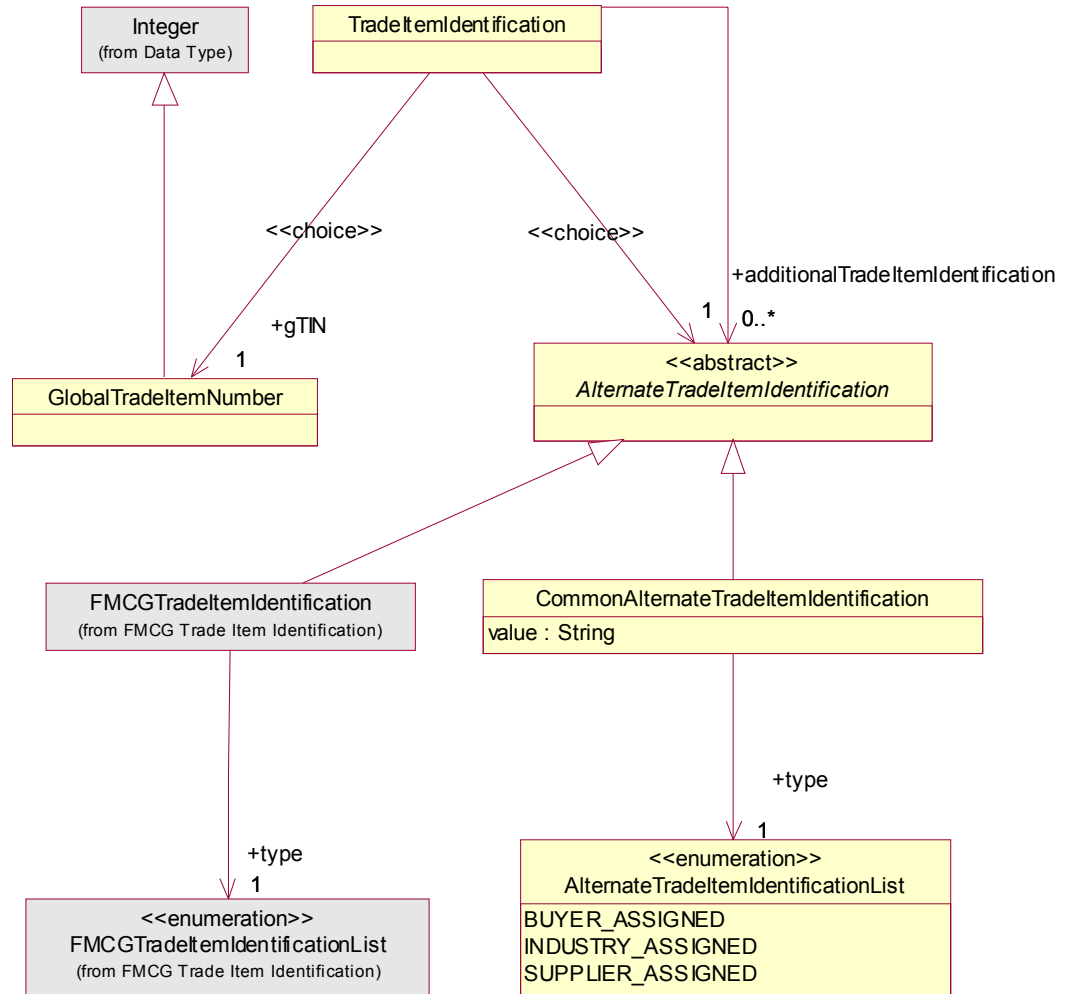
Appendix 3: Class Diagram From Entity Identification

Common Library : Common: Identification: Entity Identification

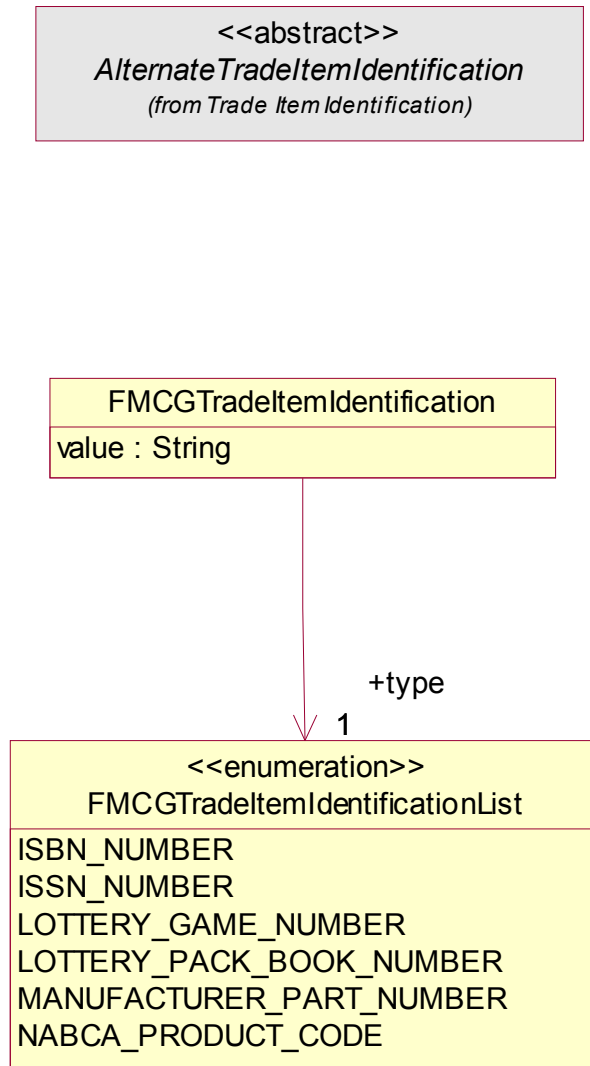


Appendix 4: Class Diagram From Trade Item Identification

Common Library: Common: Identification: Trade Item Identification

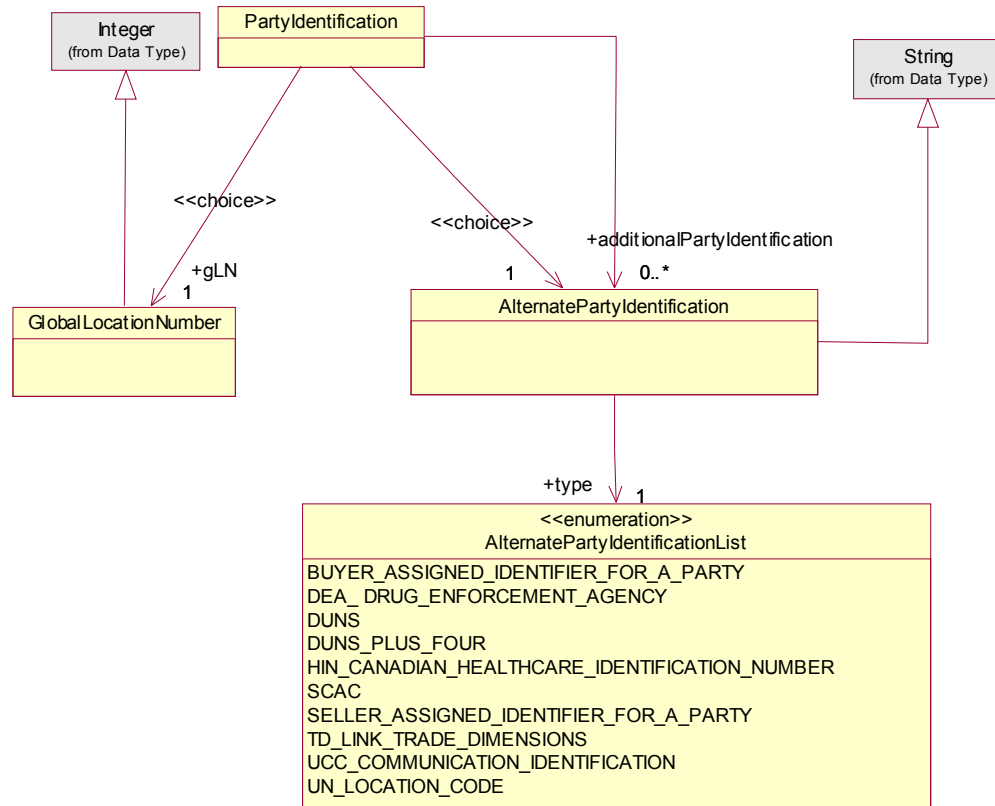


Extension: FMCG: FMCG Trade Item Identification



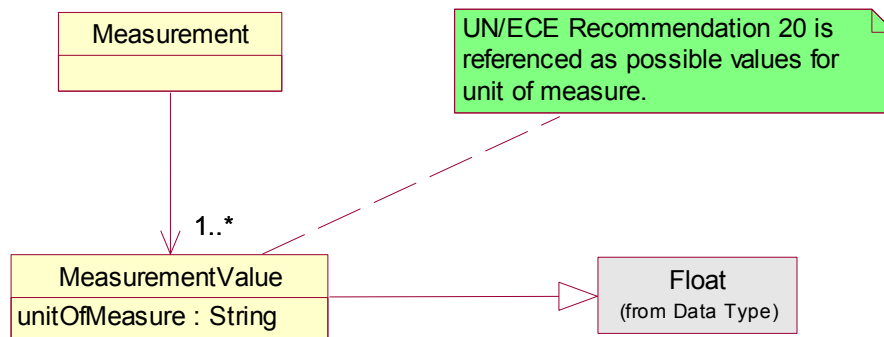
Appendix 5: Class Diagram From Party Identification

Common Library: Common: Identification: Party Identification



Appendix 6: Class Diagram From Measurement

Common Library: Common: Components :Measurement



Style Sheet

Description

This HTML has been created using a Style Sheet that is a visual representation of the data. It is not an actual Style Sheet, but an example of what a Style Sheet may look like.

HTML Example

Message MSG-123			
Creation Date	August 02, 2001 12:00:00	Representing Party	0012345000065
Msg From Party	0614141000012	Msg To Party	0012345000065

Transaction	Creator ID = OJGROWER-TRANS-12345	Content Owner = 0614141000012
--------------------	--	--------------------------------------

Command ADD	Creator ID = OJGROWER-ITEM-12345	Content Owner = 0614141000012
--------------------	---	--------------------------------------

Inventory Status Advice Document	Creator ID = ISA-WE-20041001	Content Owner = 0614141000012
---	-------------------------------------	--------------------------------------

Document Information			
Creation Date	August 17, 2004 09:30:47-05:00	Last Update Date	August 13, 2004
Content Version	1.3	Doc Structure Version	1.3
Status	ORIGINAL		

Warehouse Location

Warehouse Location	0614141000013	Alternate Warehouse Location	WH001 (BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY)
---------------------------	---------------	-------------------------------------	--

Inventory Trade Items

Available For Sale	Expir. Date	Product. Date	LOT Numbers	Status	Quantity	ID
November 25, 2004		May 25, 2004	LOT-123, LOT-456	ALLOCATED_FOR_ORDER	10.2 LB	00012345000065
	November 25, 2005		LOT-999, LOT-012	ALLOCATED_FOR_ORDER	15 KG	00012345000035

GLOBAL DATA DICTIONARY

1.0 Inventory Status Advice Class Data Descriptions v1.3

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
AlternatePartyIdentification	additionalPartyIdentification			Only one primary party identifier is used for each party. If an alternate identifier, other than GLN is used, there is no guarantee of data integrity across the process. It is the responsibility of the company electing the choice to ensure data integrity.		O	Identification
AlternatePartyIdentificationList	type			Only one primary party identifier is used for each party. If an alternate identifier, other than GLN is used, there is no guarantee of data integrity across the process. It is the responsibility of the company electing the choice to ensure data integrity.		M	Identification
		BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY		This optional code will be used for cross-reference on a one-to-one relationship.			
		DEA_DRUG_ENFORCEMENT_AGENCY		This optional code will be used for cross-reference on a one-to-one relationship.			
		DUNS		This optional code will be used for cross-reference on a one-to-one relationship.			
		DUNS_PLUS_FOUR		This optional code will be used for cross-reference on a one-to-one relationship.			

		HIN_CANADIAN_HEALTHCARE_IDENTIFICATION_NUMBER		This optional code will be used for cross-reference on a one-to-one relationship.			
		SCAC		This optional code will be used for cross-reference on a one-to-one relationship.			
		SELLER_ASSIGNED_IDENTIFIER_FOR_A_PARTY		This optional code will be used for cross-reference on a one-to-one relationship.			
		TD_LINK_TRADE_DIMENSIONS		This optional code will be used for cross-reference on a one-to-one relationship.			
		UCC_COMMUNICATION_IDENTIFICATION		This optional code will be used for cross-reference on a one-to-one relationship.			
		UN_LOCATION_CODE		This optional code will be used for cross-reference on a one-to-one relationship.			
AlternateTradeItemIdentification	additionalTradeItemIdentification			AlternateTradeItemIdentification is an abstract class from Item Identification used to identify a value for item identification other than GTIN.		O	Identification
AlternateTradeItemIdentificationList	type			Contains an enumeration list from the CommonAlternateTradeItemIdentificationClass.		M	Identification
		BUYER_ASSIGNED		This optional code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one-to-one relationship.			
		INDUSTRY_ASSIGNED		This optional code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one-to-one relationship.			

		SUPPLIER_ASSIGN ED		This optional code will be used to cross-reference the Vendors internal trade item number to the GTIN in a one-to-one relationship.			
CommonAlternateTradeItemIdentification				Industry neutral Trade Item Identification.		M	Identification
			value	The default value to be used for the field when that field is not present in the file.	1/80	M	
Document				This class is used to specify the basic information about the context of the message.		M	Components
			creationDate	DateTime		M	
			contentVersion	Version = 1.3		O	
			documentStructureVersion	Version = 1.3		O	
			lastUpdateDate	Date		O	
DocumentStatusList	documentStatus			Indicates if the document is a copy or an original.		M	Components
		COPY		A copy of the original document			
		ORIGINAL		The original document			
EntityIdentification	inventoryStatusAdviceIdentification			This class originates from Entity Identification in the common library and is used in many class diagrams to identify creator unique identification numbers. This class is used to provide a unique identification number to the inventory status advice message. This class is mandatory.		M	Identification
			uniqueCreatorIdentification			M	

FMCCTradeItemIdentification						O	FMCCTradeItemIdentification
			value	The default value to be used for the field when that field is not present in the file.	1/80	M	
FMCCTradeItemIdentificationList	type					M	FMCCTradeItemIdentification
		ISBN_NUMBER		ISBN Number			
		ISSN_NUMBER		ISSN Number			
		LOTTERY_GAME_NUMBER		Lottery Game Number			
		LOTTERY_PACK_BOOK_NUMBER		Lottery Pack Book Number			
		MANUFACTURER_PART_NUMBER		Manufacturer Part Number			
		NABCA_PRODUCT_CODE		NABCA Product Code			
GlobalLocationNumber	gLN			The Global Location Number (GLN) is a structured Identification of a physical location, legal or functional entity within an enterprise. The GLN is the recommended primary party identifier. Each party identified in the trading relationship must have a prim		O	Identification
GlobalTradeItemNumber	gTIN			A particular Global trade item Number, a numerical value used to uniquely identify a trade item. A Trade item is any trade item (product or service) upon which there is a need to retrieve pre-defined information and that may be planned, priced, ordered, d		O	Identification

InventoryStatusAdvice				Inventory Status Advice is the root class for these business requirements. There are two possible associations with Party Identification class, · for Warehouse Location (mandatory), · for an alternate Warehouse Location (optional), possible multiple occurrences. There are two mandatory associations · with Entity Identification with a inventory status advice identification, · with Inventory Trade Item (possible multiple occurrences). The root class has no attributes.	M	InventoryStatusAdvice
InventoryTradeItem				This class is used to provide the reporting of one or many trade items in the inventory status advice. This class is mandatory and has 4 attributes. The dates are related to the trade items or the lot of trade item (identified as the Trade Item Lot Number) · Available For Sale Date · Expiration Date · Production Date · Trade Item Lot Number	M	InventoryStatusAdvice
			availableForSaleDate		O	
			expirationDate		O	
			productionDate		O	
			tradeItemLotNumber		O	

MeasurementValue	quantityOfUnits			This external class originates from Measurement and is a class that is used in many class diagrams. This class includes the number of units (quantity) and unit of measure being reported as the inventory. This class is mandatory.	M	DeliverComponentLibrary
			unitOfMeasure	UN/ECE Recommendation 20. Unit of measure code.	M	
PartyIdentification	alternateWarehouseLocation			This class originates from Party Identification in the common library and is used to provide the location of a party using the Global Location Number (GLN) or an alternate party identifier that can be selected from the alternate party identification list. The inventory status advice requires that the warehouse be identified. This class provides for that identification and also for the use of an alternative warehouse location. This class is mandatory for the warehouse and optional for the alternate warehouse location.	O	Identification
	warehouseLocation				M	
TradeItemIdentification				This class originates from Trade item Identification in the common library and is used to provide the identification of trade items using the Global Trade Identification Number (GTIN) or an alternate trade item identification. All trade items shall be identified and this class provides for the identification of trade items. This class is mandatory.	M	TradeItemIdentification

TradeItemStatusList	tradeItemStatus			This class is specific to the inventory status advice and provides an enumeration list for the reporting of an trade item's status. This class is mandatory. The attributes for this class are: · Allocated for order · Available for sale · Damaged · In transit · On hand · On hold · Recall · Returns	M	TradeItemIdentification
		ALLOCATED_FOR_ORDER		Allocated For Order		
		AVAILABLE_FOR_SALE		Available For Sale		
		DAMAGED		Damaged		
		IN_TRANSIT		In Transit		
		ON_HAND		On Hand		
		ON_HOLD		On Hold		
		RECALL		Recall		
		RETURNS		Returns		

Instance File

Description

The Instance File is an example of what the schema may look like when it includes live data. This can be used as comparison to a completed schema and can serve as a point of reference for development.

Instance File Example

```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="../../4_XSL/Main.xsl"?>
<!-- This is a sample file-->
<eanucc:envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:eanucc="http://www.ean-ucc.org/schemas/1.3/eanucc"
xsi:schemaLocation="http://www.ean-ucc.org/schemas/1.3/eanucc
../2_XSD_PROXY/InventoryStatusAdviceProxy.xsd" communicationVersion="1.3">
  <messageHeader creationDate="2001-08-02T12:00:00">
    <userId>OJGROWER-12345</userId>
    <password>SECRET</password>
    <messageIdentifier>MSG-123</messageIdentifier>
    <to>
      <gln>0012345000065</gln>
    </to>
    <from>
      <gln>0614141000012</gln>
    </from>
    <representingParty>
      <gln>0012345000065</gln>
    </representingParty>
  </messageHeader>
  <body>
    <eanucc:transaction>
      <entityIdentification>
        <uniqueCreatorIdentification>OJGROWER-TRANS-
12345</uniqueCreatorIdentification>
        <contentOwner>
          <gln>0614141000012</gln>
        </contentOwner>
      </entityIdentification>
      <command>
        <eanucc:documentCommand>
          <documentCommandHeader type="ADD">
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