

EAN.UCC XML
Business Message
Standard For
Trade Item Location Profile

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:	Trade Item Location Profile	
Business Requirement Group:	Plan	
Business Requirement Document:	Trade Item Location Profile	
Business Requirements Group Manager:	Andrew Hearn	Uniform Code Council
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**

TRADE ITEM LOCATION PROFILE

Version 1.3.3
June 30, 2003

DOCUMENT HISTORY

Document Number:	XXX-YYY-NNN
Document Version:	1.3.3
Document Issue Date	June 30, 2003

Document Summary

Document Title	EAN•UCC – Business Requirements Document For Trade item Location Profile
Owner	Andrew Hearn mailto:ahearn@uc-council.org
Abstract	
Status	ITRG Approved

Document Change History Log

Date of Change	Ver	Reason for Change	Summary of Change	CCR #
September 6, 2001	1.1.0	Incorporated comments from internal review		
September 13, 2001	1.2.0	Incorporated external comments		
September 25, 2001	1.2.1	Incorporated comments	Editorial changes only	
October 26, 2001	1.3.1	Incorporate ITAG and EAN comments	Deleted dates from footer. Revised 1.0, 1.1.2, 1.2, and 2.0.	
March 31, 2003	1.3.2	Harmonisation version 1.3		
June 30, 2003	1.3.3	Incorporation of ITRG comments	Replaced class diagrams Plan Common, Measurement	

Approvals

Title	Name	Signature	Date

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1.0 Introduction

Collaborative Planning Forecasting and Replenishment (CPFR®) is a well documented nine step process developed and maintained by the Voluntary Interindustry Commerce Standards Association (VICS) for use by trading partners.

Within the CPFR® process, CPFR® requires additional trade item attributes to function and harmonize with other standards. This business requirements document identifies those attributes and the way the standards are harmonized.

1.1 Overview – Trade Item Location Profile

The CPFR® trade item attributes in this document are focused on replenishment policies. They enable a CPFR® solution to generate an appropriate order forecast, given a particular sales forecast, and generate orders from the order forecast.

1.1.1 Purpose

The purpose of this Business Requirements Document is to document a process-to-data approach. The Unified Modeling Language (UML) is used for notation. Processes 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.

CPFR® is the registered trademark of VICS, the Voluntary Interindustry Commerce Standards Association

1.1.2 Audience

The audience for this document is anyone involved in collaborative planning, forecasting and replenishment.

To better understand this business requirements document the audience should become familiar with the VICS CPFR[®] Process, the VICS CPFR[®] XML Messaging Model, June 13, 2001 and VICS Collaborative Planning Forecasting and Replenishment (CPFR[®]), Global Commerce Initiative Recommendation, June 30, 2001 as these documents provide the basis and context of the business requirements.

1.1.3 Document Organization

This document has the following organization:

- Section 1 – Provides background information for this effort
- Section 2 – Describes the players and roles that will be referred to in this document (Actors)
- Section 3 – Describes the general business requirements that have been identified
- Section 4 – UML Model Information and Examples
 - High Level Class Diagram
- Section 5 – Global Data Dictionary

1.2 Background

The Trade Item Location Profile Business Requirements Document is the output of the VICS CPFR[®], GCI, the Plan BRG (Business Requirements Group) and EAN ECEG (Electronic Commerce Expert Group). It is the responsibility of the BRG's to provide the business requirements for the process of the creation and maintenance of the business and data models. The BRG's develop and maintain business process models and supporting Use Case diagrams, Class diagrams and data requirements for a specific business function in a global electronic commerce environment. The BRG's review and resolve change requests. The BRG's provide guidance for the technical application of new business processes and changes to existing business processes. Currently, BRG's exist for the following business processes: Align Data, Plan, Order, Despatch, Pay, After Sales Services, Asset Management, Manufacturing and Point Of Service.

EAN (ECEG) covers similar functionality, through a pool of experts that liaises with the local users, ensuring the effective gathering of the business requirements from its network of national Member Organisations world-wide.

This model took advantage of the many resources available. Good works are readily available and contain excellent material.

The following are the main documents used in developing this work.

EAN•UCC Global Business Model (Process and Data), “The Trade of Goods and Services”, October 1999

Additional GCI Item Alignment Attributes Required for Collaborative Planning, Forecasting and Replenishment®, September 22, 2000

VICS Collaborative Planning Forecasting and Replenishment (CPFR®), Global Commerce Initiative Recommendation, June 30, 2001

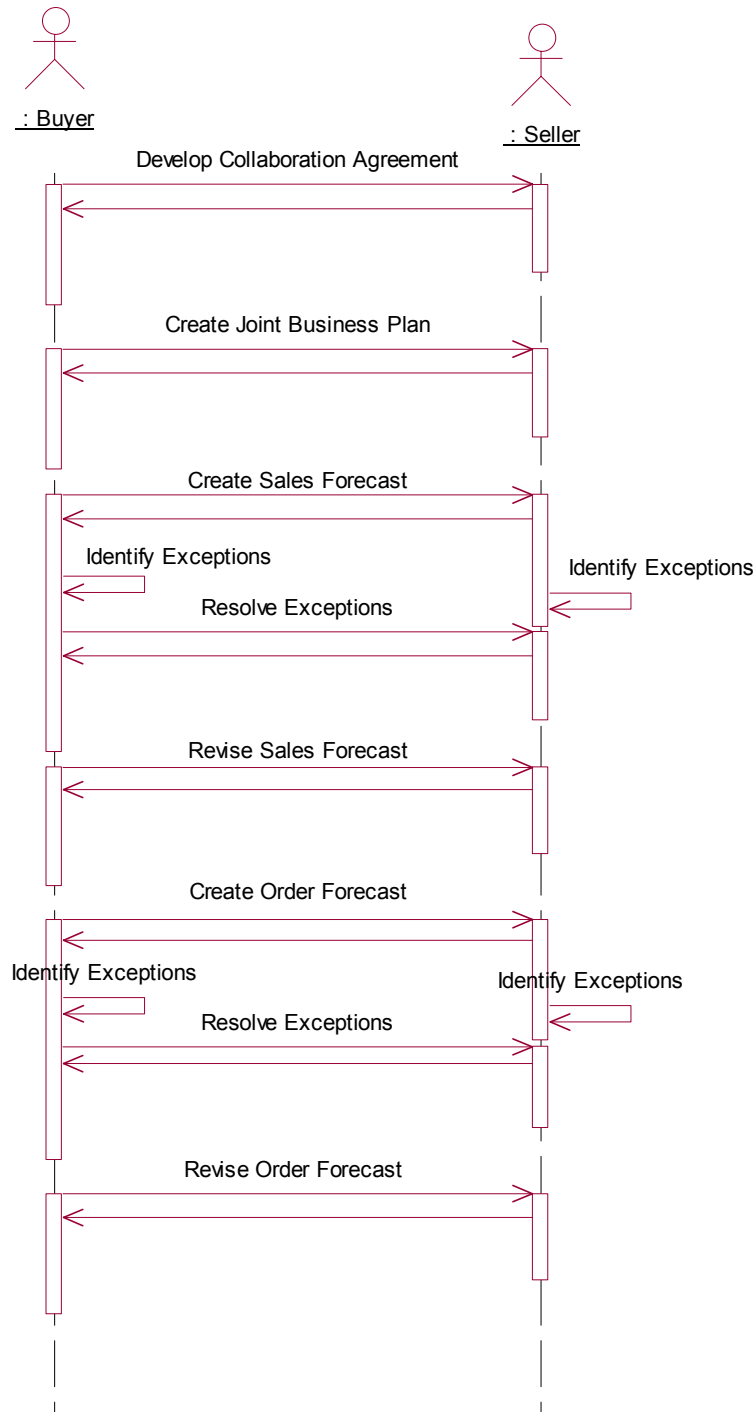
VICS CPFR® XML Messaging Model, June 13, 2001

Acknowledgement is also due to the work going on in the XML environment.

ebXML/SOAP
eCo Framework (Common Business Library)
RosettaNet
UN/CEFACT EWG
W3C

2.0 Players and Roles

This is a two party process. Trade Item Location Profiles are established between a “seller” and a “buyer”.



3.0 Requirements

The buyer and seller must engage and complete CPFR® Step 1 “Develop Collaboration Arrangement” and CPFR® Step 2 “Create Joint Business Plan” as prerequisite steps to creating identifying trade items that will become part of forecasts.

Step 1 is where the buyer and seller establish the guidelines and rules for the collaborative relationship. The “collaboration arrangement” addresses each party’s expectations and the actions and resources necessary for success. To accomplish this, the buyer and seller co-develop a general business arrangement that includes the overall understanding and objective of the collaboration, confidentiality agreements, and the empowerment of resources (both actions and commitment) to be employed throughout the CPFR® process.

In step 2 the seller and buyer exchange information about their corporate strategies and business plans in order to collaborate on developing a joint business plan. Following the principles of category management, the partners first create a partnership strategy and then define category roles, objectives, and tactics. The trade item management profiles (e.g., order minimums and multiples, lead times, order intervals) for trade items to be collaborated on are established. The development of a joint business plan improves the overall quality of forecasting by including data from both parties. It also facilitates communication and coordination across the supply chain.

3.1 General Requirements

For CPFR® the trade item information must be product and location specific and must be affectivity-based. Example: for one retail location, the lead time for a product could be 14 days; for another, 5 days. Because of changes in the transportation network, the lead times could become 13 days and 6 days, effective on November 1, 2001.

3.2 Trade Item Location Profile Use Case Scenario

3.2.1 Business Opportunities/Problem Statement:

The objective is to provide trading partners with a profile for trade items, their locations along with effective periods.

3.2.2 Stakeholders: Actors

Trade Item Location Profile is a two-actor system involving a buyer and a seller.

3.2.3 Process Start State

The start-state for the Trade Item Location Profile is initiated when the trading partners are establishing order forecasts and generating orders from the order forecast.

3.2.4 Process End State

The end-state of the Trade Item Location Profile is the creation, acceptance, discontinuance, rejection or revision to the profile.

3.2.5 Preconditions

A collaboration agreement and joint business plan must be in place.

3.2.6 Successful End Condition

Trade items, their locations and effective dates are established.

3.2.7 Failed End Condition

Profiles do not correctly match trade items to locations along with effective periods.

3.2.8 Main Process Flow

1. Both trading partners agree to the trade items in the order forecast.
2. Both trading partners agree to the locations for each trade item in the order forecast.
3. Both trading partners agree to the selected effective dates for the trade item location profiles.
4. Trading partners create the trade item location profile.
5. Both trading partners continue to create the order forecasts from which orders can be generated.

4.0 High Level Diagram

This section refers to the high level class diagram for Trade Item Location Profile. The color coding on the diagram is as follows:

- Red indicates that the class is the root class for the diagram.
- Grey indicates that the class is outside of or external to the root class.
- Yellow indicates that the class pertains specifically to the root class.

4.1 Trade Item Location Profile

The Trade Item Location Profile classes are pictured and are listed here alphabetically. These include:

- Collaborative Trade Item
- Item Management Profile
- Plan Document
- Profile Status Code List
- Time Period
- Trade Item Location Profile

4.1.1 Collaborative Trade Item

This external class originates in Plan Common and is a class that is used in more than one CPFR® class diagram. This class links the common trade item attributes to each trade item in the item profile.

4.1.2 Item Management Profile

This class provides the CPFR® profile for one or many trade items in the trade item location profile. The item management attributes are:

- Frozen period days
- Order interval days
- Ordering lead time days
- Order quantity minimum
- Order quantity multiple
- Rounding rules description
- Safety stock rules description
- Transportation strategy description

4.1.3 Plan Document

This external class originates in Plan Common and is a class that is used in more than one CPFR® class diagram. Plan Document class is the EAN•UCC System equivalent to CPFR® Message class. This class has an attribute that provides the identification of the planner, identifies the source of the data, the time period for the document and the buyer and seller.

4.1.4 Profile Status Code List

This class identifies the profile status of the trade item location profile. The profile status is selected from the list of attributes. The Profile Status Code List attributes are:

- Accepted
- Discontinued
- New
- Rejected
- Revised

4.1.5 Time Period

This external class originates in Date and Time and is a class that is used in more than one class diagram. This class identifies the effective dates.

4.1.6 Trade Item Location Profile

This is the root class and links one or more profiles which include the trade items, locations, effective periods and profile status to a plan document. This class has no attributes.

5.0 Global Data Dictionary: Data Attributes for Trade Item Location Profile

ItemManagementProfile

frozenPeriodDays: The number of days in the future that an order forecast quantity automatically becomes a confirmed order for a product, based upon a CPFR front end agreement.

orderingLeadTimeDays: Lead time required for orders in days. This is an integer, not a date.

orderIntervalDays: The number of days between regular replenishment orders for a product (1 for daily orders, 7 for weekly orders, etc.)

orderQuantityMinimum: The minimum quantity of the product that can be ordered.

orderQuantityMultiple: The order quantity multiples in which the product may be ordered. If the Order Quantity Minimum is 100, and the Order Quantity Multiple is 20, then the product can only be ordered in quantities which are divisible by the Order Quantity Multiple of 20.

roundingRulesDescription: An identifier of the policy that the replenishment algorithm should use to round off shipments (e.g. round up to the next pallet quantity).

safetyStockRulesDescription: An identifier of the policy that the replenishment algorithm should use in evaluating safety stock (for example, include or exclude deliveries that have not yet been unloaded.).

transportationStrategyDescription: An identifier of the policy that the replenishment algorithm should use to drive transportation selection (cost, time, preferred carrier).

ProfileStatusCodeList

ACCEPTED: Accepted profile.

DISCONTINUED: Discontinued profile.

NEW: New profile.

REJECTED: Rejected profile.

REVISED: Revised profile.

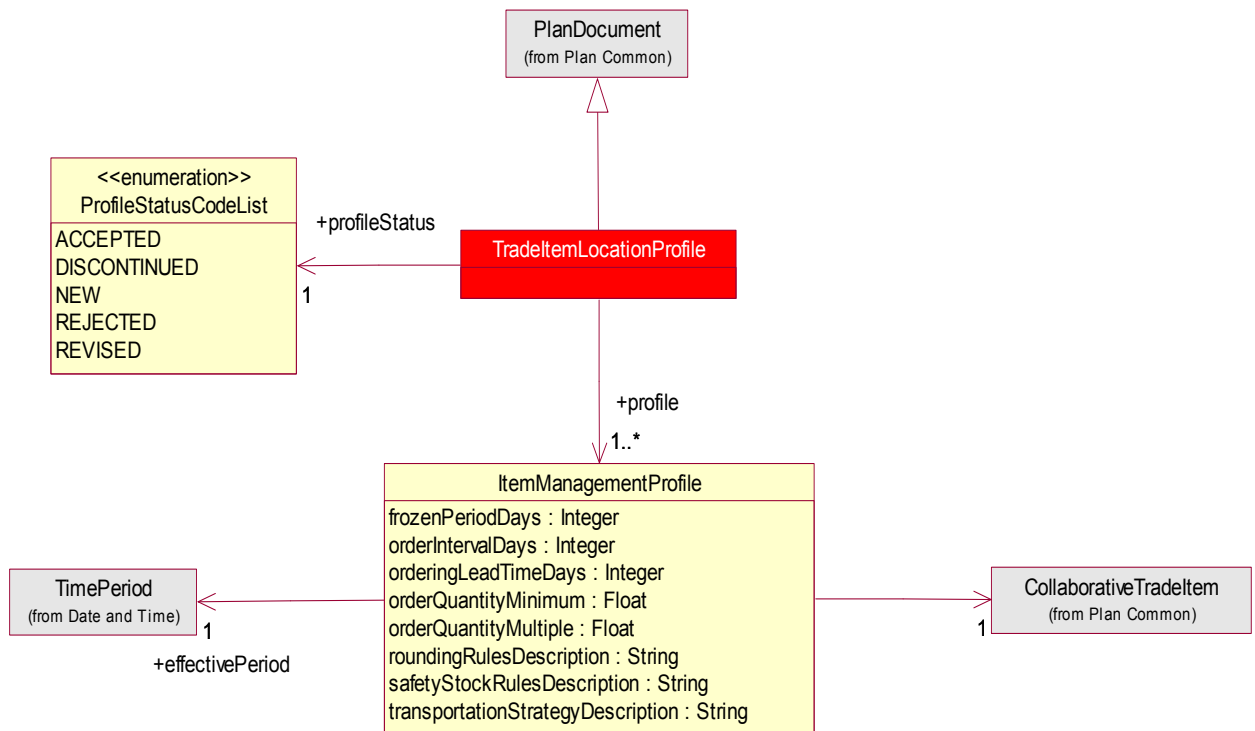
TradeItemLocationProfile

Note: See Common Global Data Dictionary for all common classes/attributes.

Appendices

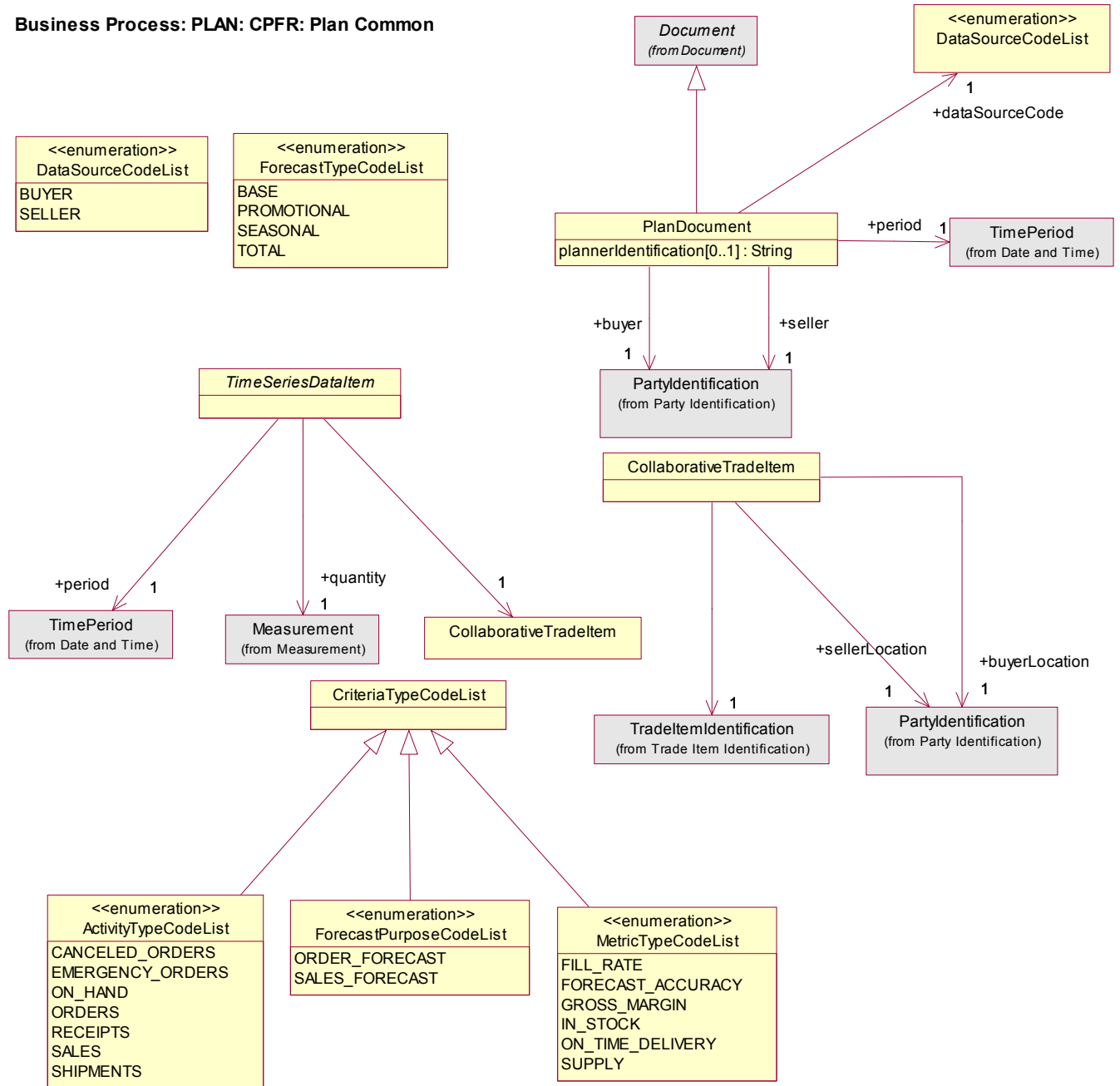
Appendix 1: Class Diagram for Trade Item Location Profile

Business Process: PLAN: CPFR: Request: Trade Item Location Profile



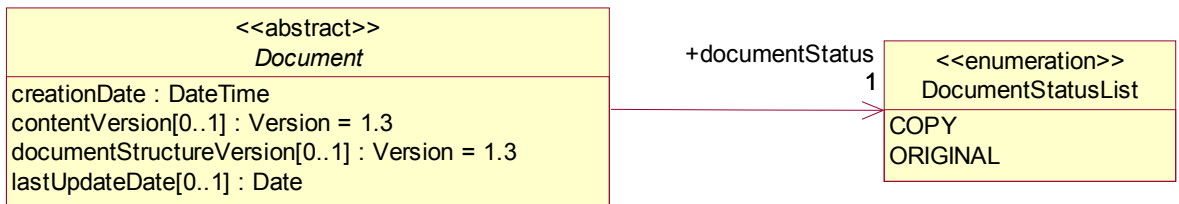
Appendix 2: Class Diagram from Plan Common

Business Process: PLAN: CPFR: Plan Common



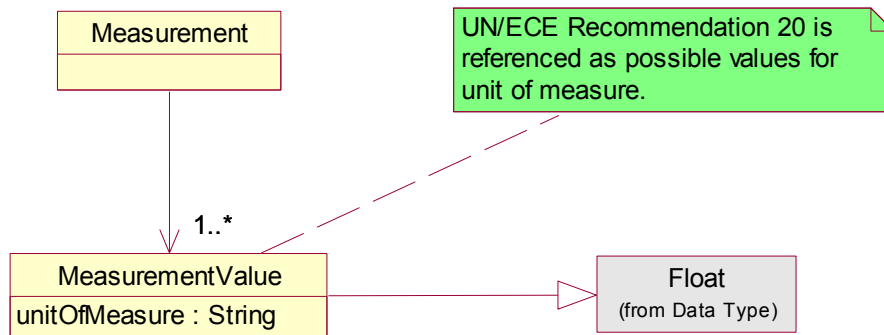
Appendix 3: Class Diagram from Document

Common Library :Common: Components: Document



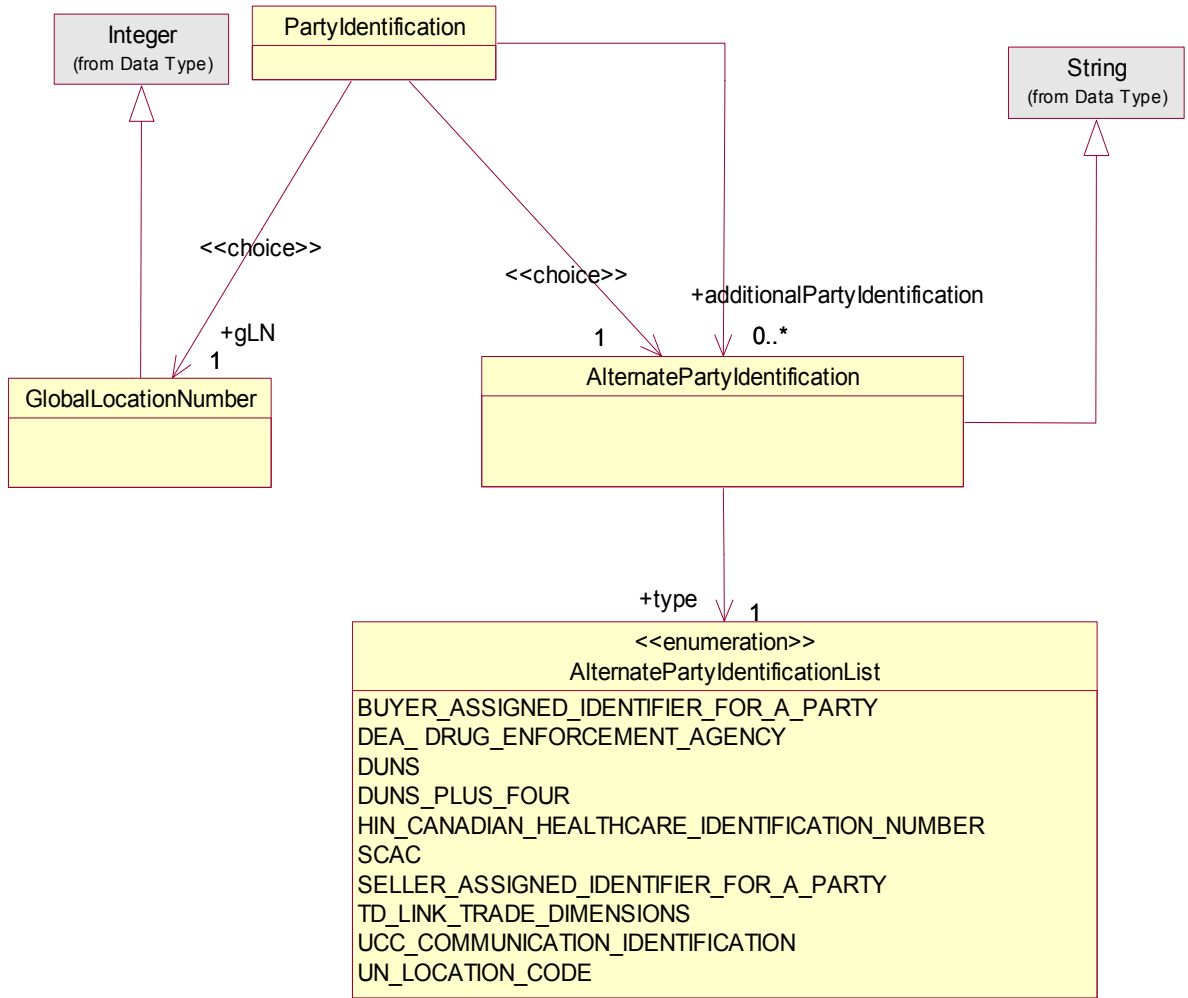
Appendix 4: Class Diagram from Measurement

Common Library: Common: Components :Measurement



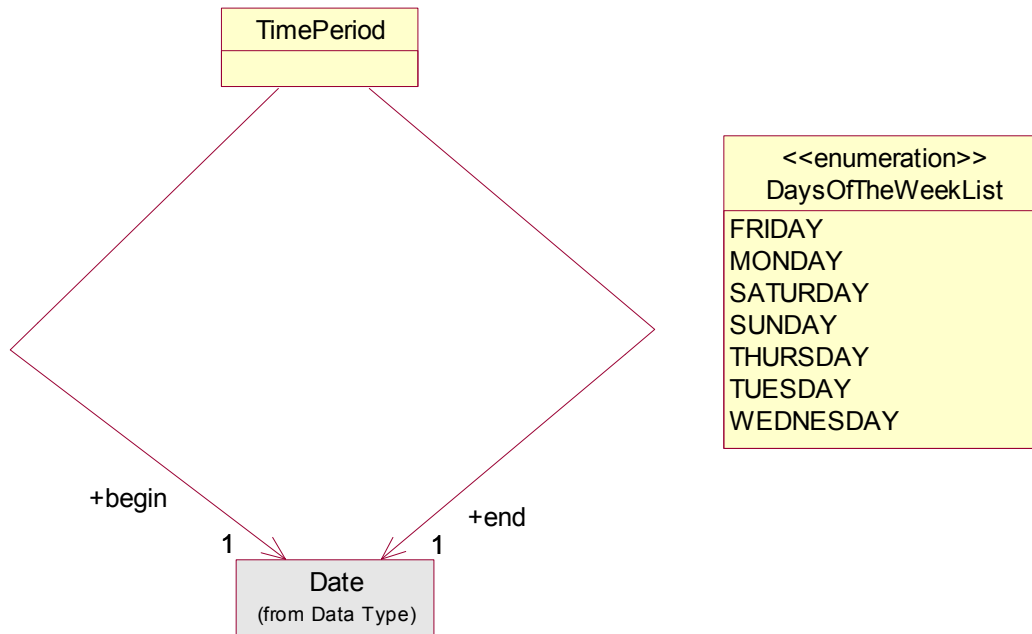
Appendix 5: Class Diagram from Party Identification

Common Library: Common: Identification: Party Identification



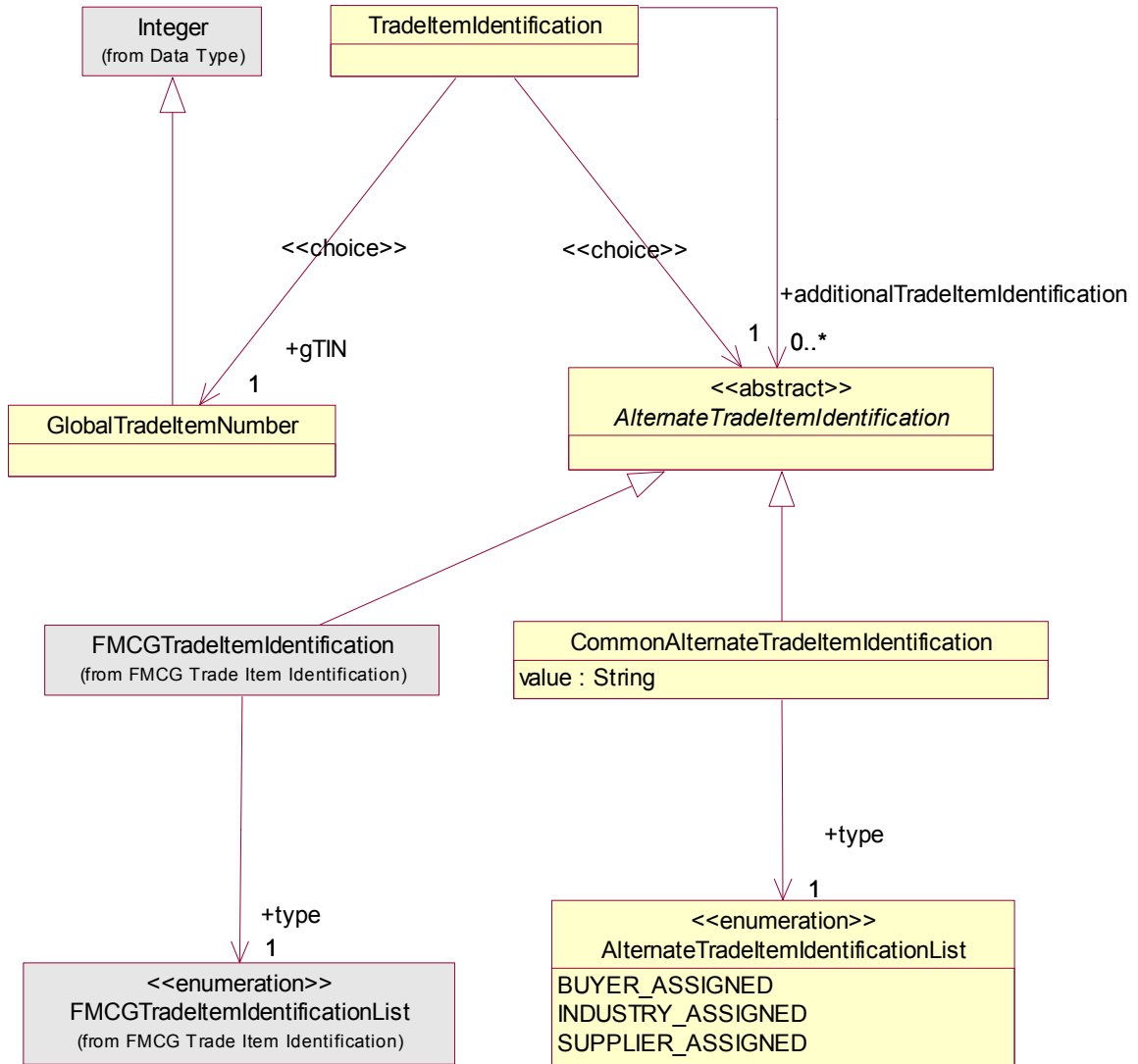
Appendix 6: Class Diagram from Date and Time

Common Library: Common: Components: Date and Time

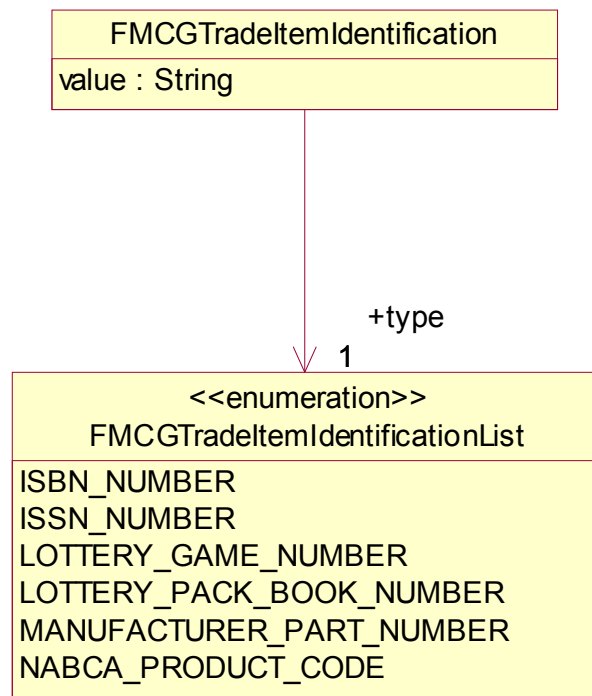
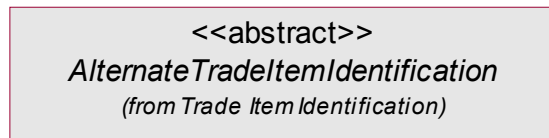


Appendix 7: Class Diagrams from Trade Item Identification

Common Library: Common: Identification: Trade Item Identification



Extension: FMCG: FMCG Trade Item Identification



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	January 10, 2004 12:00:01	Representing Party	0012345000065
Msg From Party	0012345000359	Msg To Party	0012345000058

Transaction	Creator ID = MSG-123-20040110	Content Owner = 0012345000359
--------------------	--------------------------------------	--------------------------------------

Command ADD	Creator ID = MSG-123-20040110	Content Owner = 0012345000359
--------------------	--------------------------------------	--------------------------------------

Trade Item Location Profile Document

Document Information

Creation Date	January 10, 2004 12:00:01	Last Update Date	October 01, 2004
Content Version	1.3	Doc Structure Version	1.3
Status	COPY		

Trade Item Location Profile Information

Planner ID	UCC	Data Source	BUYER
Seller	0012345000058	Buyer	0012345000359
Period Begin	March 28, 2004	Period End	March 29, 2004
Profile Status	ACCEPTED		

Location Profiles

Location Profile 1

Trade Item ID	00123450000584, [fmcg] Alternate Item Identification (NABCA_PRODUCT_CODE)		
Buyer Location	0012345000359	Seller Location	0012345000058
Effective Period Begin	March 28, 2004	Effective Period End	March 28, 2004
Frozen Period Days	30	Order Interval Days	30
Ordering Lead Time Days	30	Order Quantity Minimum	5
Order Quantity Multiple	5		
Rounding Rules	Rounding Rules Description		
Safety Stock Rules	Safety Stock Rules Description		
Transportation Strategy	Transportation Strategy Description		

GLOBAL DATA DICTIONARY

1.0 Trade Item Location Profile 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
AlternateTradeItemIdentification	additionalTradeItemIdentification			AlternateTradeItemIdentification is an abstract class from Item Identification used to identify a value for item identification other than GTIN.		O	Identification
AlternateTradeItemIdentificationList				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.			
		SELLER_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.			

CollaborativeTradeItem				This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Collaborative Trade Item identifies the product with the buyer and seller locations.		M	PlanComponentLibrary
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	
DataSourceCodeList	dataSourceCode			DataSourceCode is an external class that originates in Plan Common. The data source code list has the following attributes: ·Buyer ·Seller		M	PlanComponentLibrary
		BUYER		buyer			
		SELLER		seller			
Date	begin					M	
	end						
FMCGTradeItemIdentification						O	FMCGIdentification
			value	The default value to be used for the field when that field is not present in the file.	1/80	M	
FMCGTradeItemIdentificationList	type					M	FMCGIdentification
		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			
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.		O	Identification
ItemManagementProfile	profile			This class provides the CPFR profile for one or many items in the trade item location profile. The item management attributes are: * Frozen period days * Order interval days * Ordering lead time days * Order quantity minimum * Order quantity multipl		M	TradeItemLocationProfile
			frozenPeriodDays	The number of days in the future that an order forecast quantity automatically becomes a confirmed order for a product, based upon a CPFR front end agreement.			
			orderingLeadTimeDays	Lead time required for orders in days. This is an integer, not a date.			

			orderIntervalDays	The number of days between regular replenishment orders for a product (1 for daily orders, 7 for weekly orders, etc).			
			orderQuantityMinimum	Represent an agreed to minimum quantity of the trade item that can be ordered. A number or a count. This applies to each individual order. Can be a fixed amount for all customers in a target market.			
			orderQuantityMultiple	The order quantity multiples in which the trade item may be ordered. If the Order Quantity Minimum is 100, and the Order Quantity Multiple is 20, then the trade item can only be ordered in quantities which are divisible by the Order Quantity Multiple of 2			
			roundingRulesDescription	TBD			
			safetyStockRulesDescription	An identifier of the policy that the replenishment algorithm should use in evaluating safety stock (for example, include or exclude deliveries that have not yet been uploaded.			
			transportationStrategyDescription	An identifier of the policy that the replenishment algorithm should use to drive transportation selection (cost, time, preferred carrier).			

PartyIdentification	buyer	buyerLocation		There is a choice of selecting either a GLN (Recommended) or Alternate Party Identification as your primary party identification. Additionally, optional party identification, which cannot be GLN may be included. For example you may select one GLN as your one GLN as your primary party identification with additional party identification (ie. GLN cross referenced to DUNS or you may select an Alternate as your primary party identification with reference to additional party identification alternates). If you elect to use a DUNS number as your primary party identification, you may cross-reference this to another alternate number such as a buyer assigned customer number. However, again GLN may not be used as the additional alternate.		M	Identification
	buyerLocation					M	
	seller					M	
	sellerLocation					M	

PlanDocument				This external class originates in Plan Common and is a class that is used in more than one CPFR class diagram. Plan Document class is the EAN-UCC System equivalent to CPFR Message class. This class has an attribute that provides the identification of the planner, identifies the source of the data, the time period for the document and the buyer and seller.		M	PlanComponentLibrary
			plannerIdentification	Generic field to denote the specific planner involved with planning this event. his can be either Seller assigned or Buyer assigned.	1/80	O	
ProfileStatusCodeList	profileStatus			This class identifies the profile status of the trade item location profile. The profile status is selected from the list of attributes. The Profile Status Code List attributes are: * Accepted * Discontinued * New * Rejected * Revised		M	TradeItemLocationProfile
		ACCEPTED		Accepted			
		DISCONTINUED		Discontinued			
		NEW		New			
		REJECTED		Rejected			
		REVISED		Revised			

TimePeriod	effectivePeriod			This external class originates in Date and Time and is a class that is used in more than one class diagram. This class identifies the effective dates.		M	Components
						M	
TradeItemIdentification				A unique identification of the trade item or service. It is recommended to use the Global Trade Item Number (GTIN) as the primary trade item identification.		M	Identification
TradeItemLocationProfile				This is the root class for the Trade ItemLocation Profile.			TradeItemLocationProfile

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"
xmlns:fmcg="http://www.ean-ucc.org/schemas/1.3/fmcg"
xsi:schemaLocation="http://www.ean-ucc.org/schemas/1.3/eanucc
../2_XSD_PROXY/TradeItemLocationProfileProxy.xsd" communicationVersion="1.3">
  <messageHeader creationDate="2004-01-10T12:00:01">
    <userId>163485</userId>
    <password>MJK1635K</password>
    <messageIdentifier>MSG-123</messageIdentifier>
    <to>
      <gln>0012345000058</gln>
    </to>
    <from>
      <gln>0012345000359</gln>
    </from>
    <representingParty>
      <gln>0012345000065</gln>
    </representingParty>
  </messageHeader>
  <body>
    <eanucc:transaction>
      <entityIdentification>
        <uniqueCreatorIdentification> MSG-123-20040110</uniqueCreatorIdentification>
        <contentOwner>
          <gln>0012345000359</gln>
        </contentOwner>
      </entityIdentification>
      <command>
        <eanucc:documentCommand>
          <documentCommandHeader type="ADD">
            <entityIdentification>
```

```

    <uniqueCreatorIdentification> MSG-123-
20040110</uniqueCreatorIdentification>
    <contentOwner>
      <gln>0012345000359</gln>
    </contentOwner>
  </entityIdentification>
</documentCommandHeader>
<documentCommandOperand>
  <eanucc:tradeItemLocationProfile creationDate="2004-01-10T12:00:01"
documentStatus="COPY" contentVersion="1.3" documentStructureVersion="1.3"
lastUpdateDate="2004-10-01" profileStatus="ACCEPTED">
    <plannerIdentification>UCC</plannerIdentification>
    <dataSourceCode>BUYER</dataSourceCode>
    <seller>
      <gln>0012345000058</gln>
    </seller>
    <buyer>
      <gln>0012345000359</gln>
    </buyer>
    <period begin="2004-03-28" end="2004-03-29"/>
    <profile>
      <collaborativeTradeItem>
        <tradeItemIdentification>
          <gtin>00123450000584</gtin>
          <additionalTradeItemIdentification
xsi:type="fmcg:TradeItemIdentificationType" type="NABCA_PRODUCT_CODE">
            <fmcg:value>Alternate Item Identification</fmcg:value>
          </additionalTradeItemIdentification>
        </tradeItemIdentification>
        <buyerLocation>
          <gln>0012345000359</gln>
        </buyerLocation>
        <sellerLocation>
          <gln>0012345000058</gln>
        </sellerLocation>
      </collaborativeTradeItem>
      <effectivePeriod begin="2004-03-28" end="2004-03-28"/>
      <frozenPeriodDays>30</frozenPeriodDays>
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