

EAN.UCC XML  
Business Message  
Standard For  
Trade Item Information Request  
Version 1.3.1  
November 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

<b>EAN.UCC Business Message Standard:</b>	<b>Trade Item Information Request</b>	
<b>Business Requirement Group:</b>	<b>Plan</b>	
<b>Business Requirement Document:</b>	<b>Trade Item Information Request</b>	
<b>Business Requirements Group Manager:</b>	<b>Andrew Hearn</b>	<b>Uniform Code Council</b>
<b>Global Data Dictionary:</b>	<b>EAN.UCC Global Data Dictionary v1.3.1</b>	
<b>Schemas:</b>	<b>EAN.UCC Schemas v1.3.1</b>	
<b>Schemas have been tested on Parser(s) and Version(s):</b>	<b>XML Spy Version 4.4, Xerces, XSV</b>	

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

**Business Requirements  
Document For**

**TRADE ITEM INFORMATION  
REQUEST**

Version 1.3.3  
June 30, 2003

## DOCUMENT HISTORY

<b>Document Number:</b>	XXX-YYY-NNN
<b>Document Version:</b>	1.3.3
<b>Document Issue Date</b>	June 30, 2003

### Document Summary

<b>Document Title</b>	EAN•UCC – Business Requirements Document For Trade Item Information Request
<b>Owner</b>	Andrew Hearn <a href="mailto:ahearn@uc-council.org">mailto:ahearn@uc-council.org</a>
<b>Abstract</b>	
<b>Status</b>	ITRG Approved

### Document Change History Log

Date of Change	Ver	Reason for Change	Summary of Change	CCR #
August 29, 2001	1.1.0	Updated as integrated into the EAN.UCC system		
September 13, 2001	1.2.0	Incorporate comments		
September 25, 2001	1.2.1	Incorporate comments	Editorial comments and class diagram change.	
October 26, 2001	1.3.1	Incorporate ITAG and EAN comments	Deleted dates in footer. Revised 1.0, 1.1.2 and 1.2.	
March 25, 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<sup>®</sup>) is a well documented nine step process developed and maintained by the Voluntary Interindustry Commerce Standards Association (VICS) for use by trading partners.

In the CPFR<sup>®</sup> process, a trade item information request is one trading partner's request to the other to send product activity, forecast, or performance data, when the partner does not automatically send data.

### 1.1 Overview – Trade Item Information Request

One trading partner sends a trade item information request to another to request forecast, product activity, or performance history for one or more products. A request of this type is needed if one party does not regularly send information to the other, but sends it only upon request.

#### 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<sup>®</sup> 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<sup>®</sup> Process, the VICS CPFR<sup>®</sup> XML Messaging Model, June 13, 2001 and VICS Collaborative Planning Forecasting and Replenishment (CPFR<sup>®</sup>), Global Commerce Initiative Recommendation, June 30, 2001 as these documents provide the basis and context of the business documents.

### **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 Information Request Business Requirements Document is the output of the VICS CPFR<sup>®</sup>, 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 on the invoicing process.

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

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

A Trade Item Information Request can be made by any one trading partner who may be either a “seller” or a “buyer”.

## 3.0 Requirements

The buyer and seller must engage and complete CPFR® Step 1 “Develop Collaboration.”

### 3.1 General Requirements

A request can contain many trade items. Each trade item specifies the product, buyer location, and criteria type desired, along with a bucket size type code list. The bucket size type code list indicates whether data is desired as a time series of daily, weekly, monthly, quarterly, or annualized values.

### 3.2.1 Business Opportunities/Problem Statement:

#### 3.2 Trade Item Information Request Use Case Scenario

The objective is to enable one trading partner to request trade item information from the other trading partner when the trading partners agree to send the information only upon request.

##### 3.2.2 Stakeholders: Actors

Trade Item Information Request is a two-actor system involving a buyer and a seller.

##### 3.2.3 Process Start State

The start-state for the Trade Item Information Request is initiated when one of the trading partners desires information about a forecast, product activity or performance history for one or more products.

##### 3.2.4 Process End State

The end-state of the Trade Item Information Request is the transmission of the request.

##### 3.2.5 Preconditions

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

### **3.2.6 Successful End Condition**

A Trade Item Information Request is received by the other trading partner.

### **3.2.7 Failed End Condition**

A Trade Item Information Request is not received by the other trading partner.

### **3.2.8 Main Process Flow**

1. Both trading partners agree to provide trade item information on an as requested basis
2. A trading partner identifies the trade item(s) for which information is requested
3. This trading partner specifies the product, buyer location, seller location and the criteria type desired
4. This trading partner identifies the bucket size type code list for the request
5. The trade item information request is prepared and sent to the other trading partner

## **4.0 High Level Diagram**

This section refers to the high level class diagram for Trade Item Information Request. 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 Information Request**

The Trade item Information Request classes are pictured and are listed here alphabetically. These include:

- Bucket Size Type Code List
- Collaborative Trade Item
- Criteria Type Code List
- Information Request Trade Item
- Plan Document
- Trade Item Information Request

#### **4.1.1 Bucket Size Type Code List**

Each information request trade item will specify a bucket size type by code. The bucket size type code list has the following attributes:

- Day
- Month
- Quarter
- Unspecified
- Week
- Year

#### 4.1.2 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 item attributes to an Information Request Trade Item.

#### 4.1.3 Criteria Type Code List

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 activity type code list, forecast purpose code list or metric type code list to the information request trade item.

The activity type code list attributes are:

- Canceled orders
- Emergency orders
- On hand
- Orders
- Receipts
- Sales
- Shipments

The forecast purpose code list attributes are:

- Order forecast
- Sales forecast

The metric type code list attributes are:

- Fill rate
- Forecast accuracy
- Gross margin
- In stock
- On time delivery
- Supply

#### 4.1.4 Information Request Trade Item

This class links a collaborative trade item, criteria type code list and bucket size type code list to a trade item information request. It has no attributes.

#### 4.1.5 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.

#### 4.1.6 Trade Item Information Request

This is the root class and links one or more information request trade items in the message. It has no attributes.

## 5.0 Global Data Dictionary: Data Attributes for Trade Item Information Request

### *BucketSizeTypeCodeList*

DAY: Information requested in daily buckets.

MONTH: Information requested in monthly buckets.

QUARTER: Information requested in quarterly buckets.

UNSPECIFIED: Information may be provided in whatever time format that is available.

WEEK: Information requested in weekly buckets.

YEAR: Information requested in yearly buckets.

### *InformationRequestTradeItem*

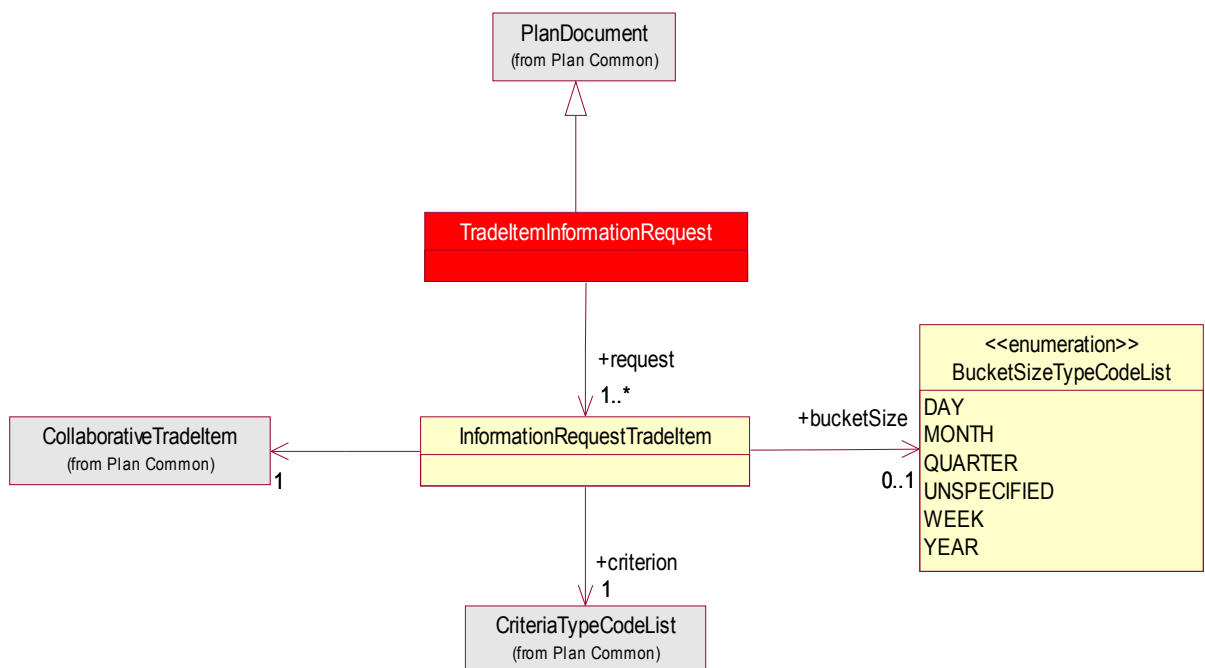
### *TradeItemInformationRequest*

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

## Appendices

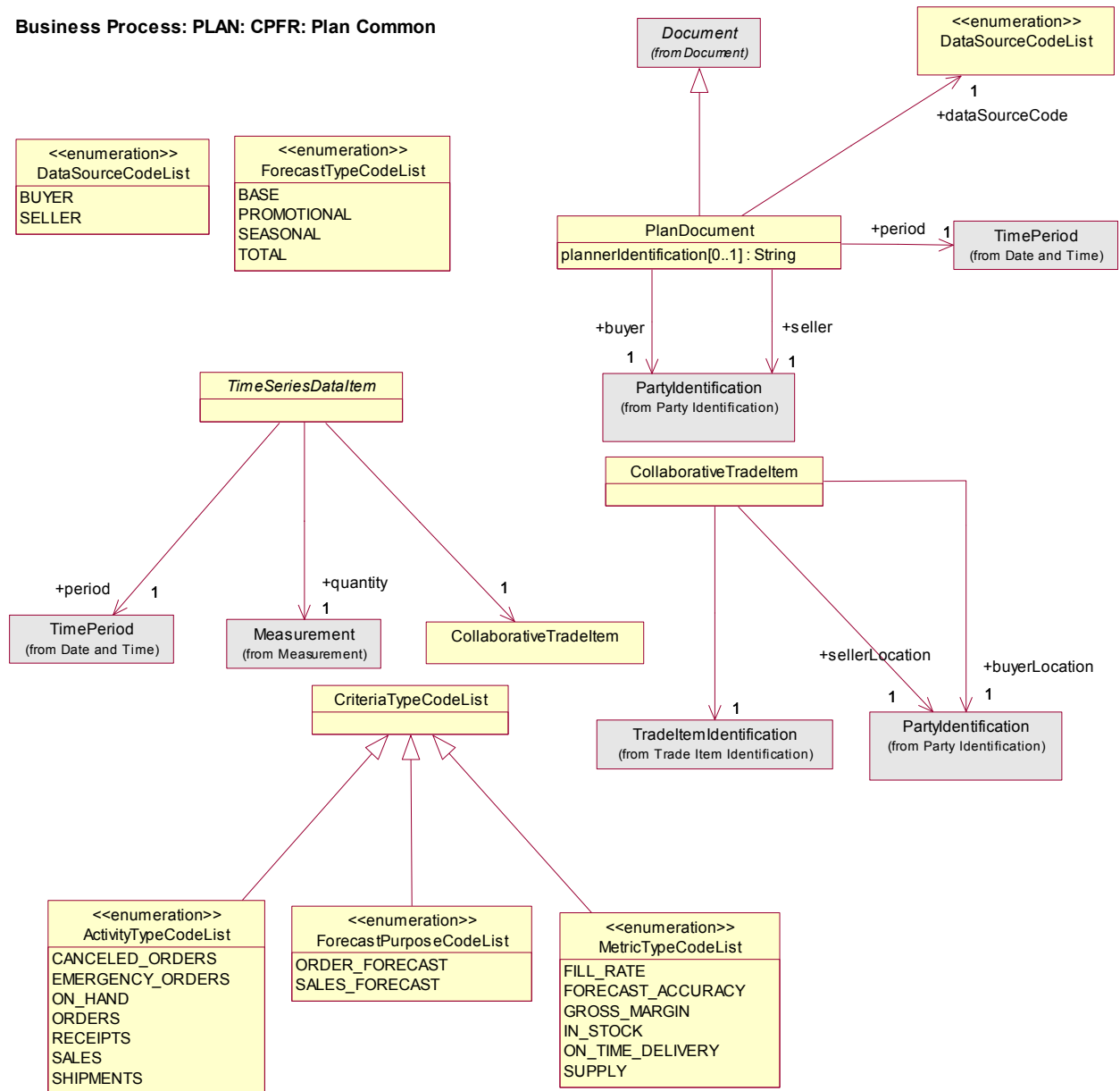
### Appendix 1: Class Diagram for Trade Item Information Request

#### Business Process: PLAN: CPFR: Request: Trade Item Information Request



## Appendix 2: Class Diagram from Plan Common

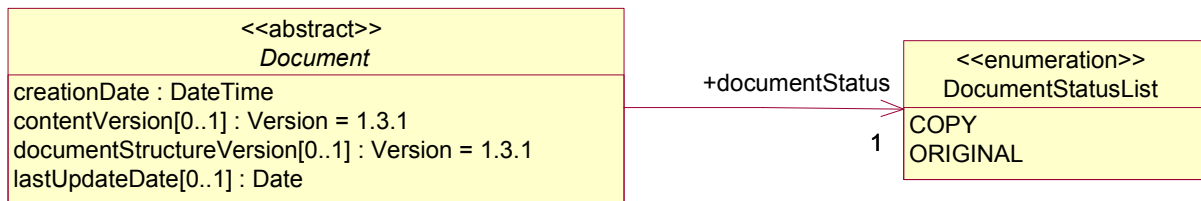
Business Process: PLAN: CPFR: Plan Common





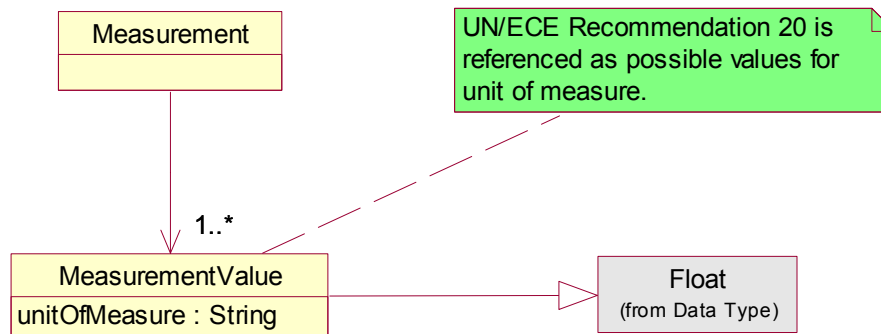
### Appendix 3: Class Diagram from Document

#### Common Library: Common: Components: Document



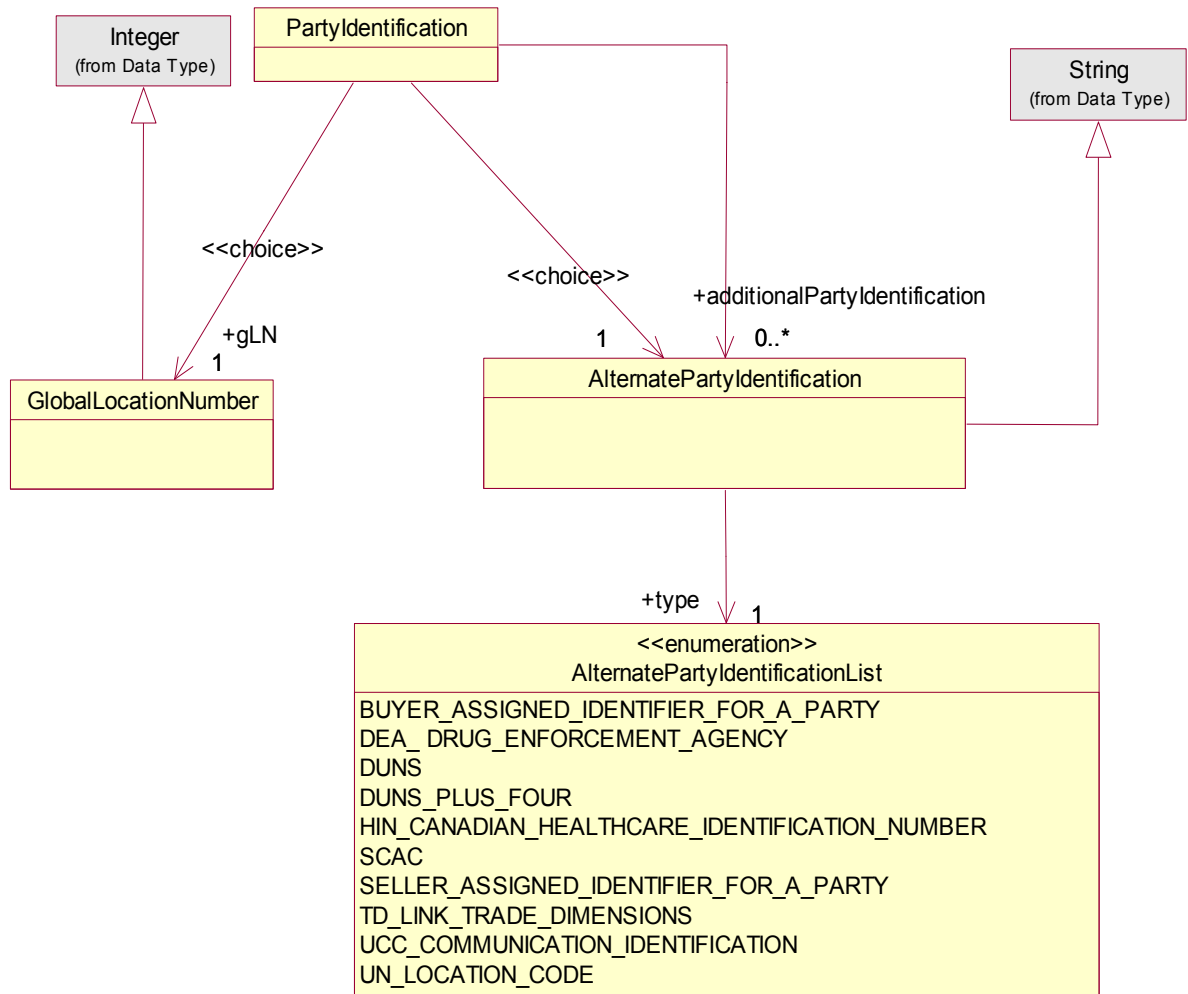
### Appendix 4: Class Diagram from Measurement

#### Common Library: Common: Components :Measurement



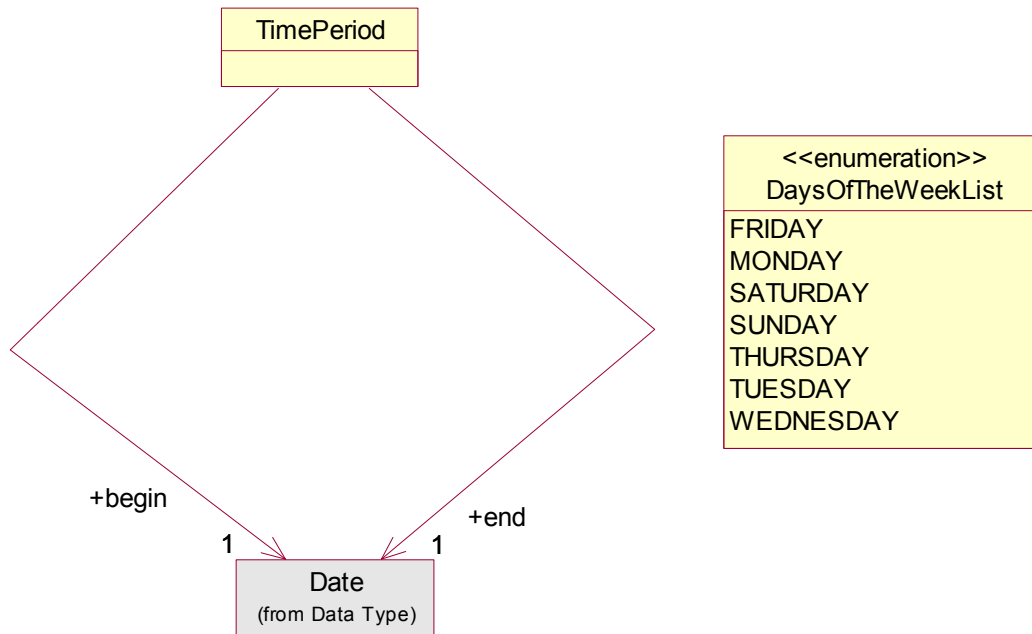
## Appendix 5: Class Diagram from Party Identification

### Common Library: Common: Identification: Party Identification



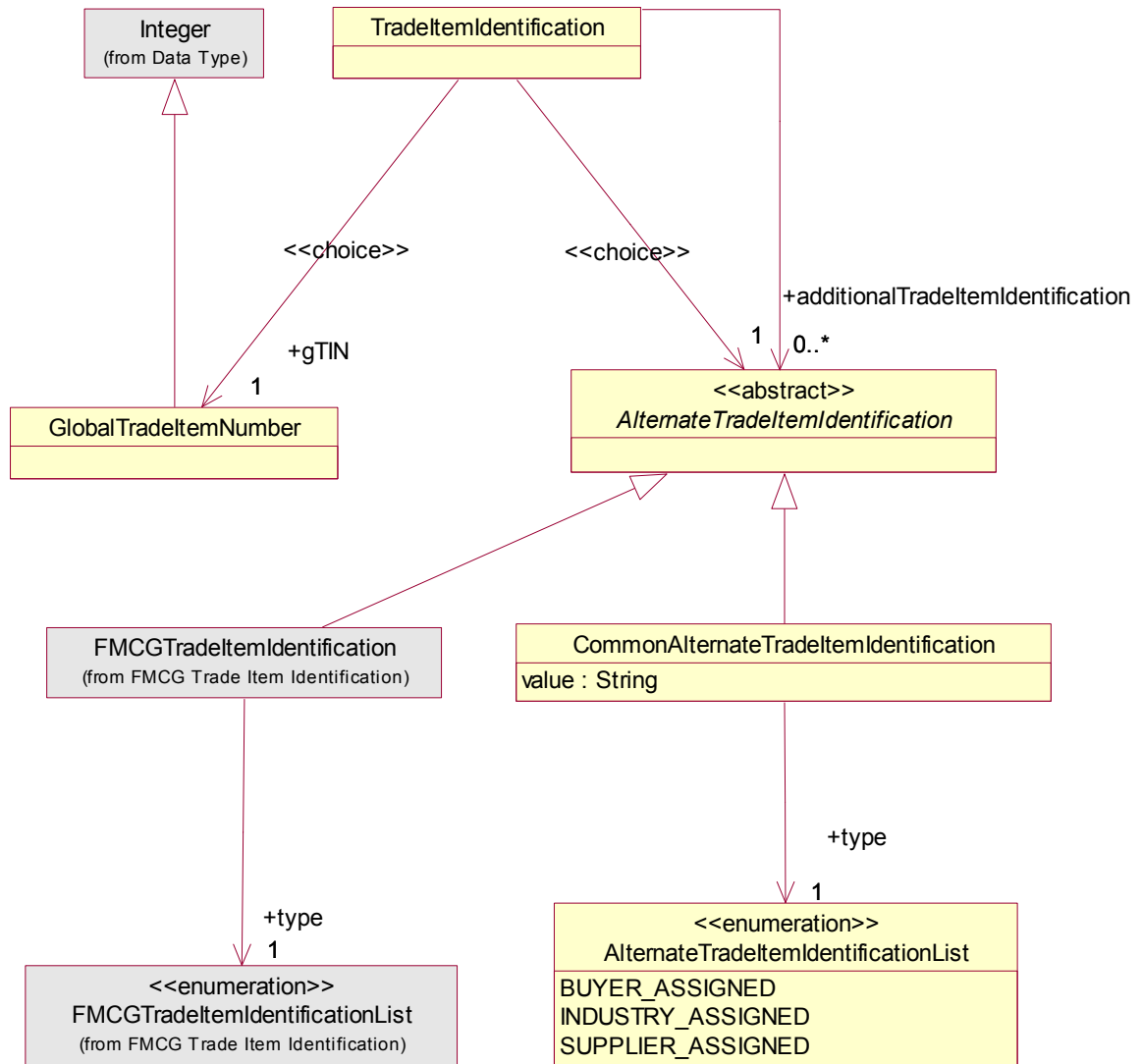
## Appendix 6: Class Diagram from Date and Time

### Common Library: Common: Components: Date and Time

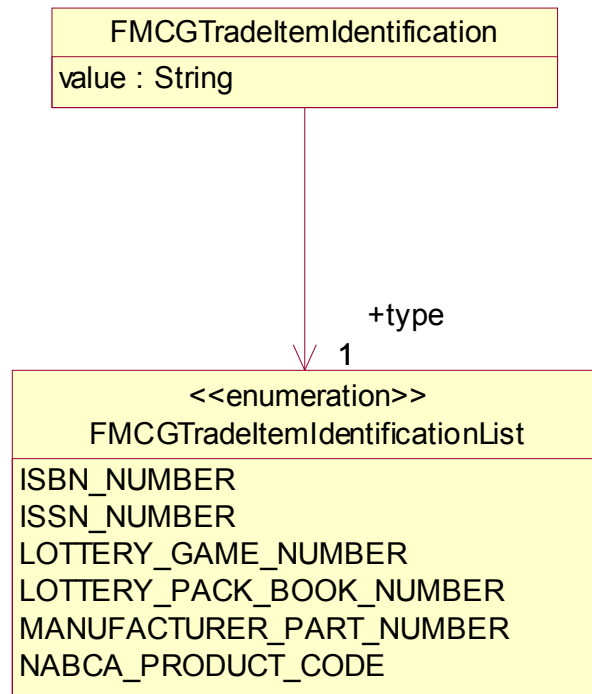
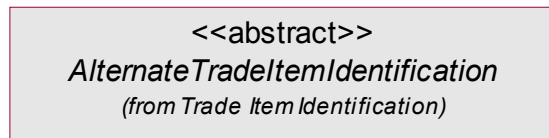


## Appendix 7: Class Diagrams from Trade Item Identification

### 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

<b>Message MSG-123</b>			
<b>Creation Date</b>	January 10, 2004 12:00:01	<b>Representing Party</b>	0012345000065
<b>Msg From Party</b>	0012345000359	<b>Msg To Party</b>	0012345000058

<b>Transaction</b>	<b>Creator ID = MSG-123-20040110</b>	<b>Content Owner = 0012345000359</b>
--------------------	--------------------------------------	--------------------------------------

<b>Command ADD</b>	<b>Creator ID = MSG-123-20040110</b>	<b>Content Owner = 0012345000359</b>
--------------------	--------------------------------------	--------------------------------------

<b>Trade Item Information Request Document</b>			
--	--	--	--

<b>Document Information</b>			
<b>Creation Date</b>	January 10, 2004 12:00:01	<b>Last Update Date</b>	October 01, 2004
<b>Content Version</b>	1.3.1	<b>Doc Structure Version</b>	1.3.1
<b>Status</b>	COPY		

**Trade Item Information Request Information**

<b>Planner ID</b>	UCC	<b>Data Source</b>	BUYER
<b>Seller</b>	0012345000058	<b>Buyer</b>	0012345000359
<b>Period Begin</b>	March 28, 2004	<b>Period End</b>	March 29, 2004

**Information Requests**

**Information Request 1**

<b>Trade Item ID</b>	00123450000584, [ fmcg ] Alternate Item Identification (NABCA_PRODUCT_CODE)		
<b>Buyer Location</b>	0012345000359	<b>Seller Location</b>	0012345000058
<b>Criterion</b>	ORDER_FORECAST	<b>Bucket Size</b>	DAY

## GLOBAL DATA DICTIONARY

### 1.0 Trade Item Information Request Class Data Descriptions v1.3.1

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
ActivityTypeCodeList				TimeSeriesDataItem is an external class that originates in Plan Common. This class identifies the Activity Type Code for an operational exception. The Activity Type Code includes the following Business Attributes: Cancelled orders, Emergency Orders, OnHand, Orders, Receipts, Sales, Shipments.		O	PlanComponentLibrary
		CANCELED_ORDERS		Canceled Orders			
		EMERGENCY_ORDERS		Emergency Orders			
		ON_HAND		On hand			
		ORDERS		Ordres			
		RECEIPTS		Receipts			
		SALES		Sales			
		SHIPMENTS		Shipments			



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_ASSIGNMENT_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				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.			
BucketSizeTypeCode List	bucketSize			Each information request trade item will specify a bucket size type by code. The bucket size type code list has the following attributes: * Day * Month * Quarter * Unspecified * Week * Year		O	TradeItemInformationRequest
		DAY		Information requested in daily buckets			
		MONTH		Information requested in monthly buckets			
		QUARTER		Information requested in quarterly buckets			
		UNSPECIFIED		Information may be provided in whatever time format that is available.			
		WEEK		Information requested in weekly buckets			
		YEAR		Information requested in yearly buckets			

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	
CriteriaTypeCodeList	criterion			This external class originates in Plan Common and is a class that is used in more than one Collaborative Planning, Forecasting, and Replenishment (CPFR) class diagram.		M	PlanComponentLibrary
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						
Document				This class is used to specify the basic information about the context of the message.		M	Components
			creationDate	DateTime			
			contentVersion	Version = 1.3.1			

			documentStructureVersion	Version =1.3.1			
			lastUpdateDate	Date			
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			
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			
ForecastPurposeCodeList				This external class originates in Plan Common and is a class that is used in more than one CPFR(r) class diagram. There are two types of forecasts based upon the purpose of the forecast and a code identifies the purpose of the forecast with the variance.		O	PlanComponentLibrary

		ORDER_FORECAST		Order Forecast			
		SALES_FORECAST		Sales Forecast			
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.		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.		O	Identification
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. This can be either Seller assigned or Buyer assigned.	1/80	M	
TimePeriod	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.		O	Components
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
TradeItemInformationRequest				This is the root class for the Trade Item Information Request message.		M	TradeItemInformationRequest

## 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/1.3.1/eanucc"
  xmlns:fmcg="http://www.ean-ucc.org/schemas/1.3.1/fmcg"
  xsi:schemaLocation="http://www.ean-ucc.org/schemas/1.3.1/eanucc
    ../2_XSD_PROXY/TradeItemInformationRequestProxy.xsd"
  communicationVersion="1.3.1">
  <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>
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