

EAN.UCC XML Business Message Standard For

Exception Criteria

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

EAN.UCC Business Message Standard:	Exception Criteria	
Business Requirement Group:	Plan	
Business Requirement Document:	Exception Criteria	
Business Requirements Group Manager:	Andrew Hearn	Uniform Code Council
Global Data Dictionary:	EAN.UCC Global Data Dictionary v1.3.1	
Schemas:	EAN.UCC Schemas v1.3.1	
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

EXCEPTION CRITERIA

Version 1.3.2
June 30, 2003

DOCUMENT HISTORY

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Document Summary

Document Title	EAN•UCC – Business Requirements Document For Exception Criteria
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 #
August 29, 2001	1.1.0	Updated as integrated into the EAN.UCC system		
September 13, 2001	1.2.0	Incorporated comments		
September 25, 2001	1.2.1	Incorporate comments	Editorial changes and replaced class diagram	
October 26, 2001	1.3.0	Incorporate ITAG and EAN comments	Deleted date in footer. Revised 1.0, 1.1.2 and 1.2	
March 27, 2003	1.3.1	Harmonisation version 1.3		
June 30, 2003	1.3.2	Incorporation of ITRG comments	Replaced class diagrams Exception Criteria, 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.

In the CPFR® process exception criteria define the threshold for variances, beyond which an exception message should be triggered.

1.1 Overview – Exception Criteria

Exception criteria are rules that describe the thresholds for forecast variance, product activity, and performance history beyond which exceptions should be triggered.

CPFR® implementations exchange exception criteria so that their respective exception engines can use the same rules to evaluate data, and trigger identical exceptions in parallel.

Forecast item exception criteria may be restricted to a single component of a forecast (for example, a variance in the promotional component of two sales forecasts), or they can compare totals. The effective dates for an exception describe a horizon in which a criterion is valid.

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 Exception Criteria 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.

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 CPFR[®] XML Messaging Model, June 13, 2001

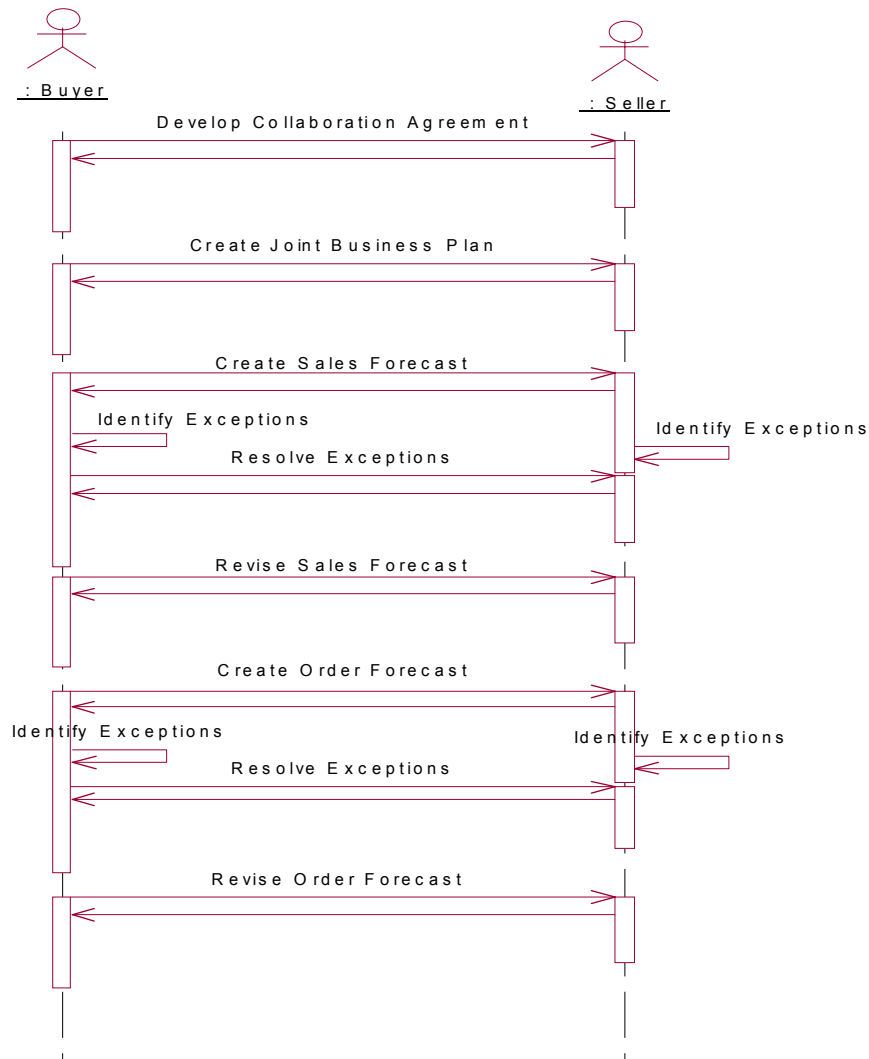
VICS Collaborative Planning Forecasting and Replenishment (CPFR[®]), Global Commerce Initiative Recommendation, June 30, 2001

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

Both trading partners, the buyer and the seller, collaborate on the exception criteria. The exception criteria is created during the development of the collaborative agreement and used as an input to revise forecasts.



3.0 Requirements

The buyer and seller must engage and complete CPFR® Step 1.

Step 1 “Develop Collaboration Arrangement” includes the identification of buyer and seller exception criteria. The exception criteria establish the exception triggers for the exception notification.

3.1 General Requirements

The agreed upon exception criteria shall be in place for implementing trading partners.

Both partners shall use the same rules to evaluate data and trigger exceptions in parallel.

3.2 Exception Criteria Use Case Scenario

3.2.1 Business Opportunities/Problem Statement:

The objective is to establish criteria for variance thresholds that will trigger an exception notification.

3.2.2 Stakeholders: Actors

Exception Notification is a two-actor system involving a buyer and a seller.

3.2.3 Process Start State

The start-state is the development of a collaborative arrangement and implementation of CPFR®.

3.2.4 Process End State

The end-state is the implementation of the exception criteria against operational, metric and forecast performance.

3.2.5 Preconditions

Both trading partners agree on the exception criteria and are implementing CPFR®.

3.2.6 Successful End Condition

Exception criteria triggers an exception notification for variances beyond threshold limits.

3.2.7 Failed End Condition

Variances do not trigger an exception notification.

3.2.8 Main Process Flow

1. Both trading partners have established the buyer and seller exception criteria as part of CPFR® Step 1
2. Both trading partners are implementing CPFR®

3. Both trading partners are collecting and evaluating data
4. A variance exceeding the assigned threshold criteria occurs
5. An exception is triggered

4.0 High Level Diagram

This section refers to the high level class diagram for Exception Criteria. 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 Exception Criteria

The Exception Criteria classes are pictured and are listed here alphabetically. These include:

- [Activity Type Code List](#)
- [Collaboration Priority Code List](#)
- [Collaborative Trade Item](#)
- [Criterion Status Code List](#)
- [Data Source Code List](#)
- [Exception Criteria](#)
- [Exception Criterion](#)
- [Exception Value Comparison Code List](#)
- [Forecast Accuracy Exception Criterion](#)
- [Forecast Comparison Exception Criterion](#)
- [Forecast Data Item Exception Criterion](#)
- [Forecast Purpose Code List](#)
- [Forecast Type Code List](#)
- [Measurement](#)
- [Metric Exception Criterion](#)
- [Metric Type Code List](#)
- [Operational Exception Criterion](#)
- [Plan Document](#)
- [Time Period](#)

4.1.1 Activity 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 identifies the activity type code for an operational exception. The activity type code list has the following attributes:

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

4.1.2 Collaboration Priority Code List

Each exception shall have an assigned collaboration priority code. This class provides the codes. The collaboration priority code list has the following attributes:

- High
- Low
- Medium

4.1.3 Collaborative Trade Item

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.

4.1.4 Criterion Status Code List

Each exception criterion shall have an assigned criterion status code. This class provides the codes. The criterion status code list has the following attributes:

- Deleted
- New
- Revised

4.1.5 Data Source Code List

This external class originates in Plan Common and is a class that is used in more than one CPFR® class diagram. The source of a forecast data item exception criterion shall be identified. This class provides the codes. The data source code list has the following attributes:

- Buyer
- Seller

4.1.6 Exception Criteria

This is the root class and links all the exception criterion. This class has no attributes.

4.1.7 Exception Criterion

This class links exception criterion for the type of exception, priority, status, comparison code, threshold, effective dates, and item to the exception criteria. This class has no attributes.

4.1.8 Exception Value Comparison Code List

Exception Value Comparison codes shall be established for each exception. This class provides the codes. The Exception Value Comparison Code List has the following attributes:

- Exceeds exception value
- Falls below exception value

4.1.9 Forecast Accuracy Exception Criterion

This establishes criterion for one of the two kinds of forecast data item exceptions. This class identifies the exception as a forecast accuracy exception. This class has no attributes.

4.1.10 Forecast Comparison Exception Criterion

This establishes the criterion for one of the two kinds of forecast data item exceptions. This class compares the buyer and seller data source(s) and identifies the time basis of comparison. This class has no attributes.

4.1.11 Forecast Data Item Exception Criterion

This establishes the criterion for one of the three types of exceptions. This class provides criteria for the kind of forecast exception, the identification of the purpose of the forecast, the source of data and the time basis criteria for the exception. The Forecast Data Item Exception Criterion has one attribute:

- Time delta days quantity

4.1.12 Forecast Purpose Code List

This external class originates in Plan Common and is a class that is used in more than one CPFR® class diagram. Each Forecast Data Item Exception Criterion will be assigned a forecast purpose code. The Forecast Purpose Code List has the following attributes:

- Order forecast
- Sales forecast

4.1.13 Forecast 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 identifies the forecast type codes. The Forecast Purpose Code List has the following attributes:

- Base
- Promotional
- Seasonal
- Total

4.1.14 Measurement

This external class originates in Measurement and is a class that is used in more than one class diagram. The measurement class provides the threshold for the exception triggers.

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.

4.1.15 Metric Exception Criterion

This establishes the criterion for one of the three types of exceptions. This class links the metric type code list to the exception criterion. This class has no attributes.

4.1.16 Metric 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 identifies the metric type code. The metric type code list has the following attributes:

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

4.1.17 Operational Exception Criterion

This establishes the criterion for one of the three types of exceptions. This class links the activity type code list to the exception criterion. This class has no attributes.

4.1.18 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.

4.1.19 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.

5.0 Global Data Dictionary: Data Attributes for Exception Criteria

CollaborationPriorityCodeList

HIGH: High priority exception.

LOW: Low priority exception.

MEDIUM: Medium priority exception.

CriterionStatusCodeList

DELETED: Deleted exception criterion.

NEW: New exception criterion.

REVISED: Revised exception criterion

ExceptionCriteria

ExceptionCriterion

ExceptionValueComparisonCodeList

EXCEEDS_EXCEPTION_VALUE: The compared value exceeds the exception threshold.

FALLS_BELOW_EXCEPTION_VALUE: The compared value falls below the exception threshold.

ForecastAccuracyExceptionCriterion

ForecastComparisonExceptionCriterion

ForecastDataItemExceptionCriterion

timeDeltaDaysQuantity: The time difference, in days, that determines if a forecast is still valid for generating exceptions.

MetricExceptionCriterion

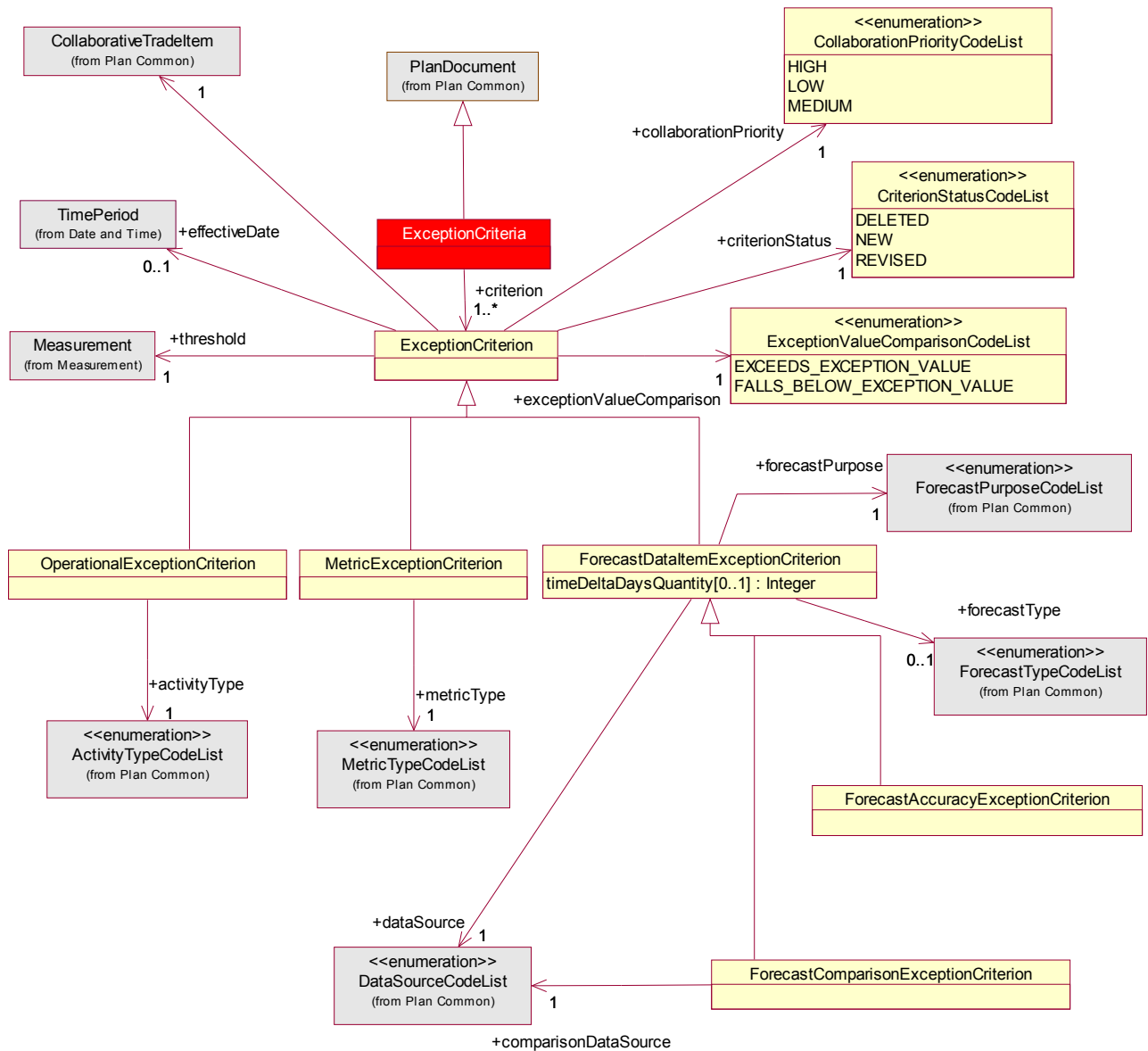
OperationalExceptionCriterion

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

Appendices

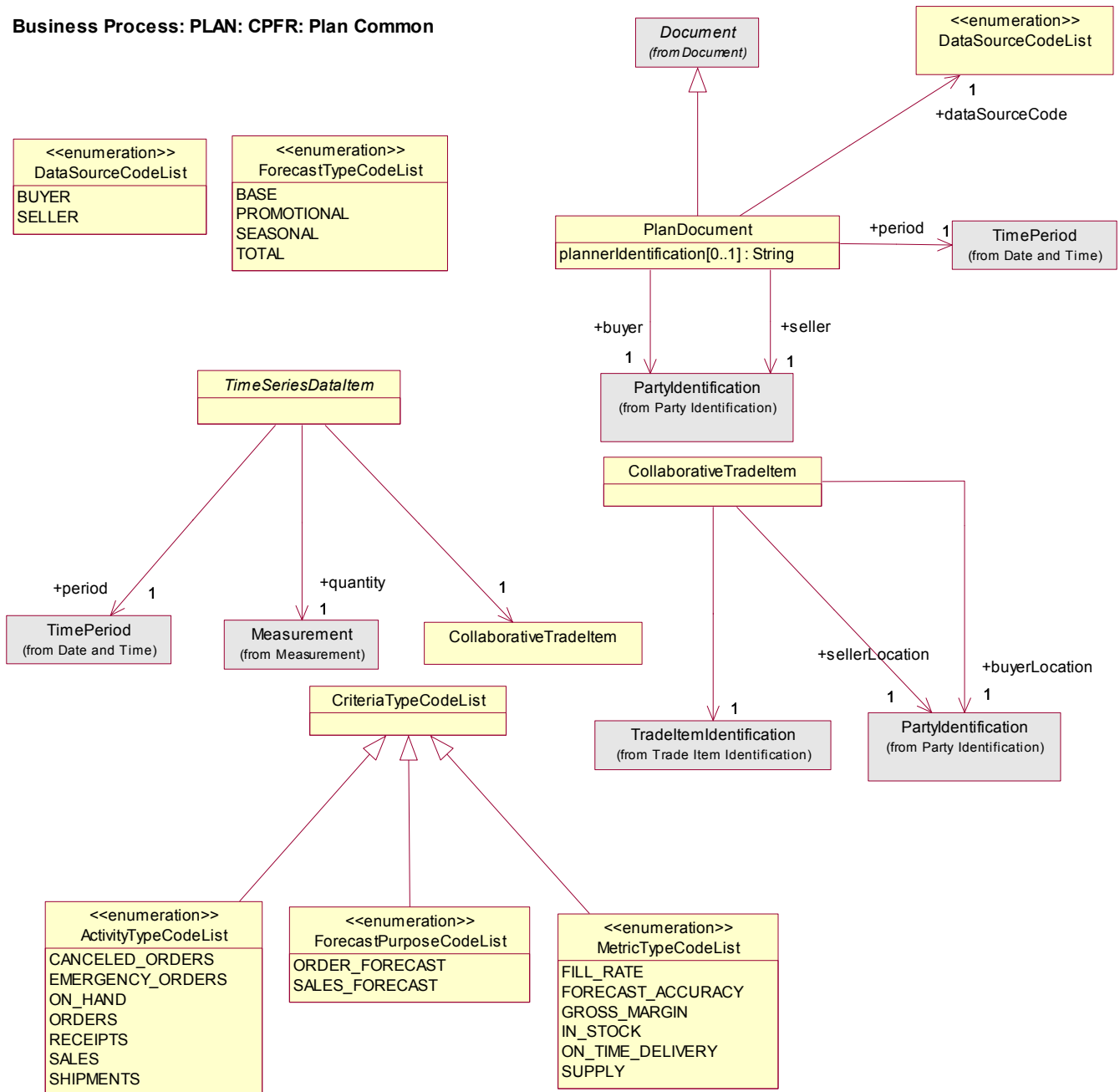
Appendix 1: Class Diagram for Exception Criteria

Business Process: PLAN: CPFR: Collaboration: Exception Criteria



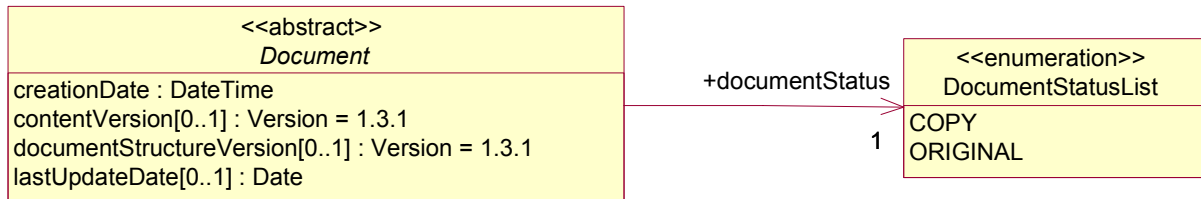
Appendix 2: Class Diagram from Plan Common

Business Process: PLAN: CPFR: Plan Common



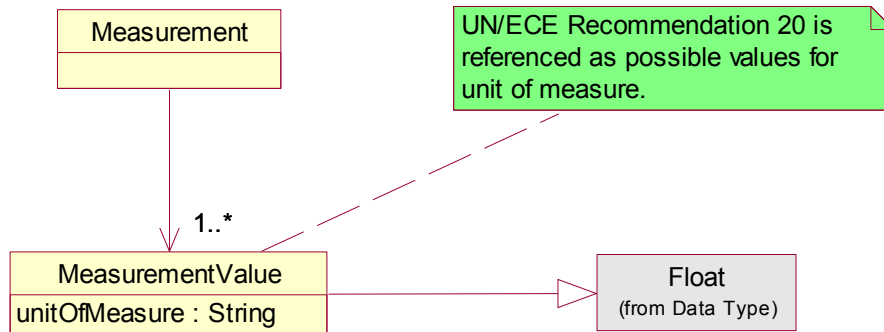
Appendix 3: Class Diagram from Document

Common Library: Common: Components: Document



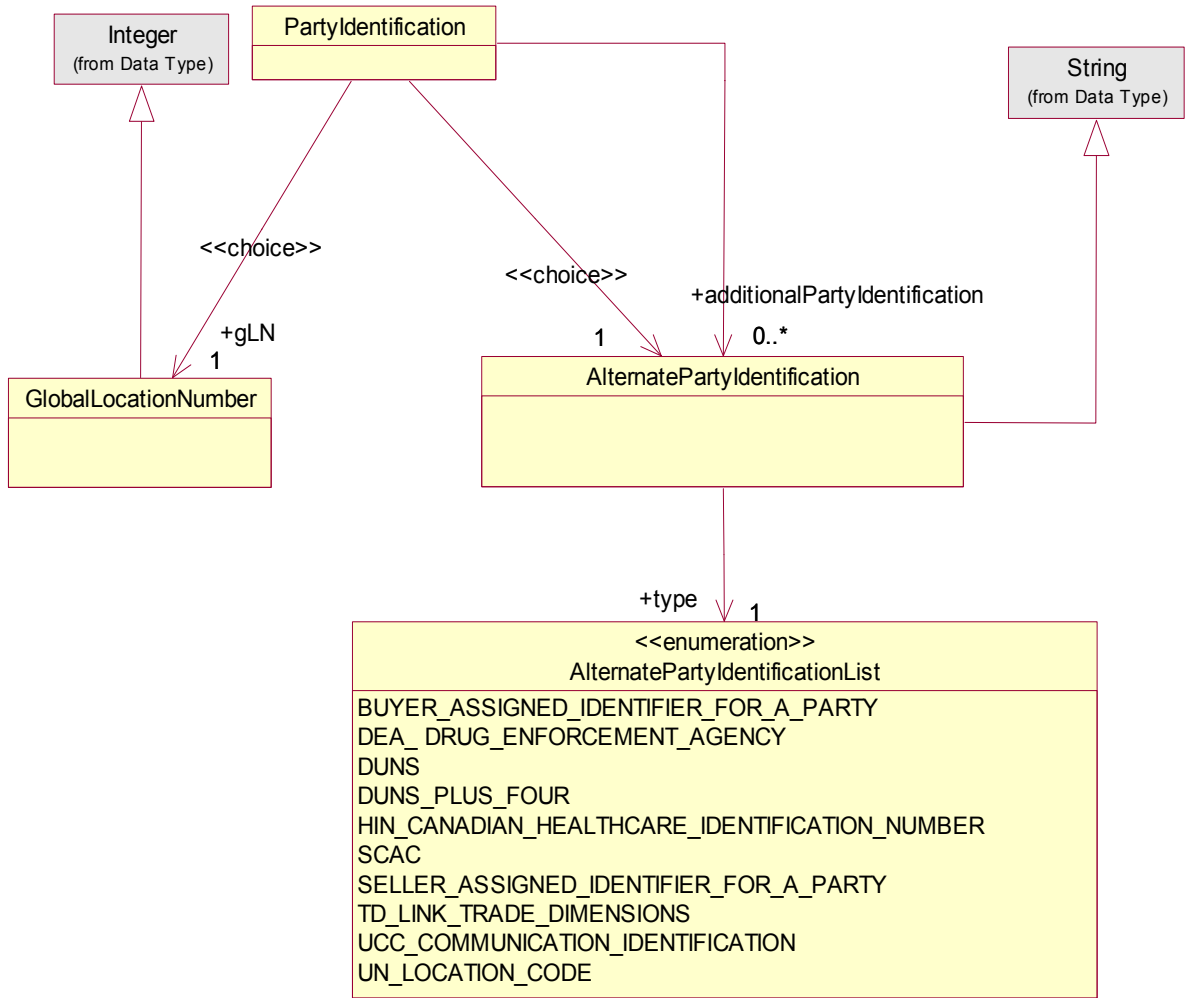
Appendix 4: Class Diagram from Measurement

Common Library: Common: Components :Measurement



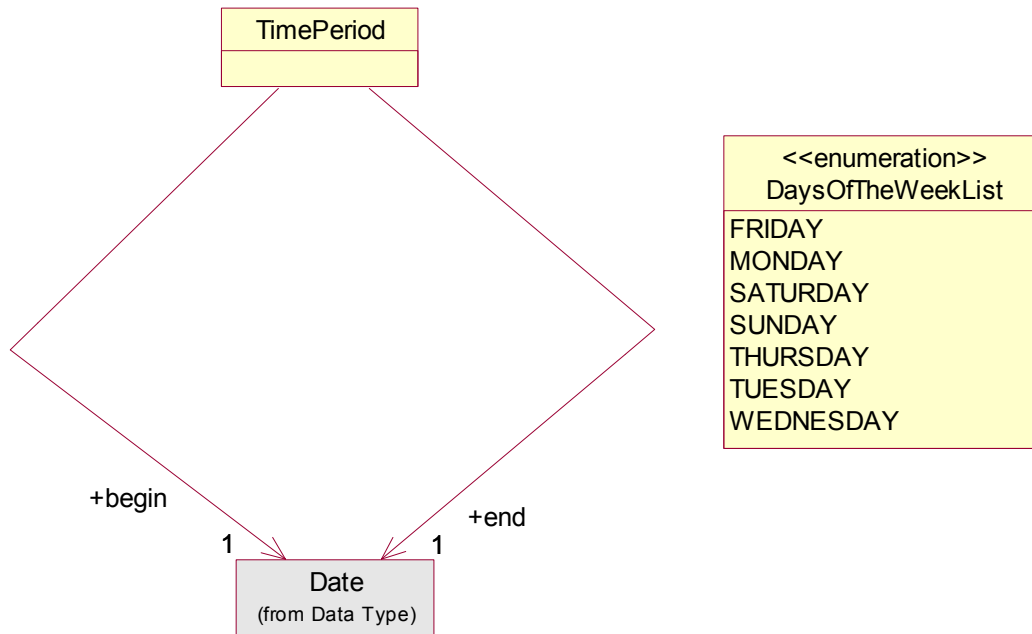
Appendix 5: Class Diagram from Party Identification

Common Library: Common: Identification: Party Identification



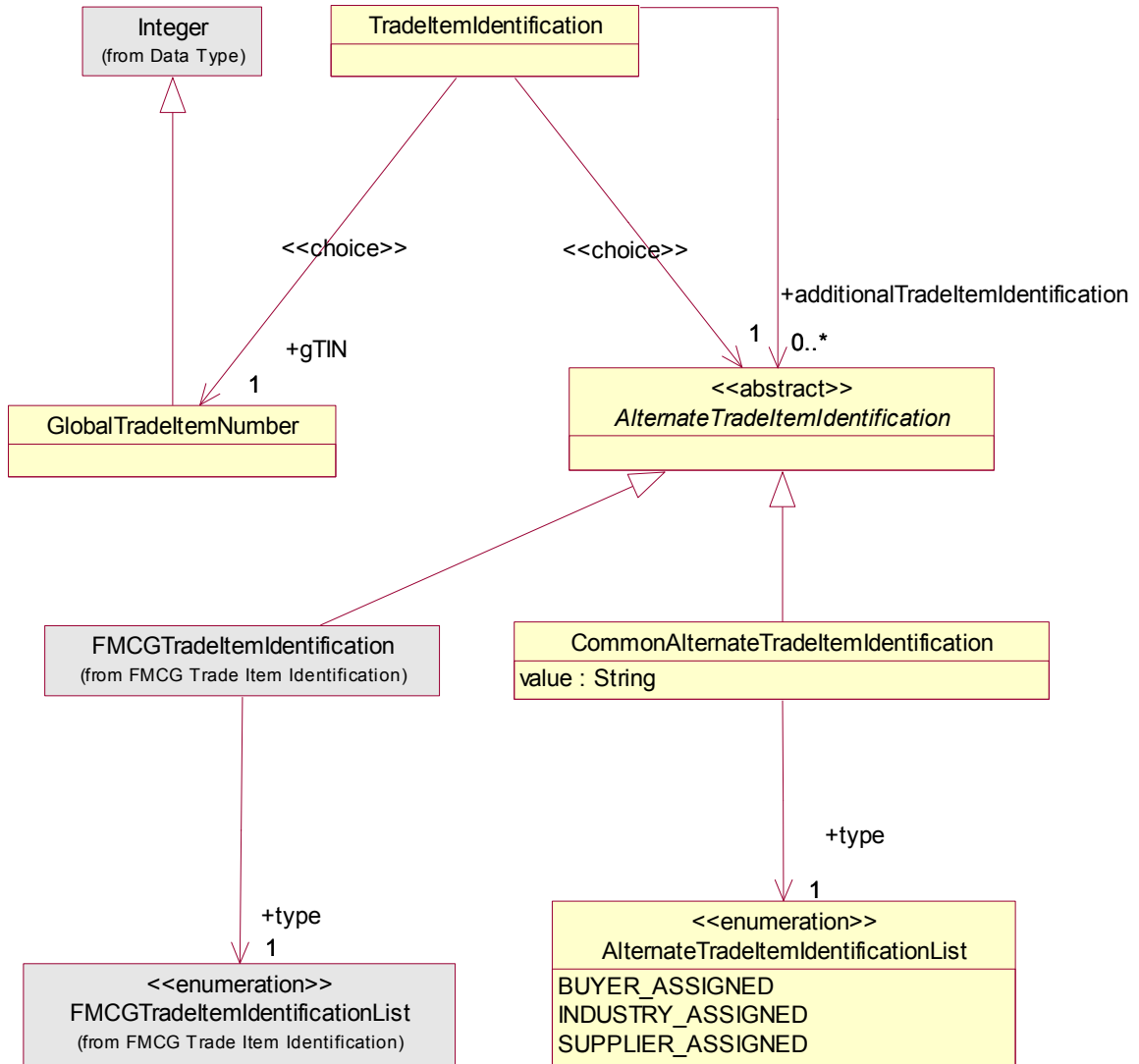
Appendix 6: Class Diagram from Date and Time

Common Library: Common: Components: Date and Time

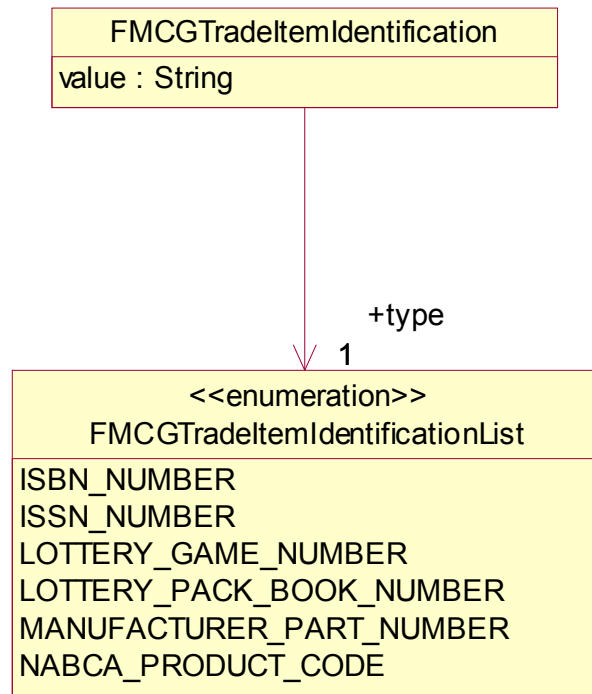
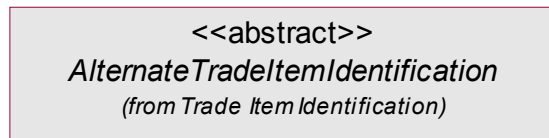


Appendix 7: Class Diagrams from Trade Item Identification

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.

Style Sheet 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
--------------------	--------------------------------------	--------------------------------------

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

Exception Criteria Information

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

Criteria

Exception Criterion 1

Trade Item ID	00123450000584, [fmcg] Alternate Item Identification (NABCA_PRODUCT_CODE)		
Buyer Location	0012345000359	Seller Location	0012345000058
Effective Date Begin	March 28, 2004	Effective Date End	March 28, 2004
Threshold	120000 kgs	Criterion Status	NEW
Collaboration Priority	HIGH	Exception Value Comparison	EXCEEDS_EXCEPTION_VALUE
Activity Type	SALES		

Exception Criterion 2

Trade Item ID	00123450000584, [fmcg] Alternate Item Identification (NABCA_PRODUCT_CODE)		
Buyer Location	0012345000359	Seller Location	0012345000058
Effective Date Begin	March 28, 2004	Effective Date End	March 28, 2004
Threshold	120000 kgs	Criterion Status	NEW
Collaboration Priority	HIGH	Exception Value Comparison	EXCEEDS_EXCEPTION_VALUE
Metric Type	SUPPLY		

Exception Criterion 3

Trade Item ID	00123450000584, [fmcg] Alternate Item Identification (NABCA_PRODUCT_CODE)		
Buyer Location	0012345000359	Seller Location	0012345000058
Effective Date Begin	March 28, 2004	Effective Date End	March 28, 2004
Threshold	120000 kgs	Criterion Status	NEW
Collaboration Priority	HIGH	Exception Value Comparison	EXCEEDS_EXCEPTION_VALUE
Time Delta Days Qty	20	Forecast Purpose	SALES_FORECAST
Forecast Type	BASE	Data Source	BUYER
Comparison Data Source	SELLER		

Exception Criterion 4

Trade Item ID 00123450000584, [fmcg] Alternate Item Identification (NABCA_PRODUCT_CODE)

Buyer Location 0012345000359

Seller Location 0012345000058

Effective Date Begin March 28, 2004

Effective Date End March 28, 2004

Threshold 120000 kgs

Criterion Status NEW

Collaboration Priority HIGH

Exception Value Comparison EXCEEDS_EXCEPTION_VALUE

Time Delta Days Qty 20

Forecast Purpose SALES_FORECAST

Forecast Type BASE

Data Source BUYER

GLOBAL DATA DICTIONARY

1.0 Exception Criteria 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	activityType			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.		M	PlanComponentLibrary
		CANCELED_ORDERS		Canceled Orders			
		EMERGENCY_ORDERS		Emergency Orders			
		ON_HAND		On hand			
		ORDERS		Orders			
		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_ASSIGNED_IDENTIFER_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 ItemIdentification 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.			
CollaborationPriorityCodeList	collaborationPriority			Each exception shall have an assigned collaboration priority code. This class provides the codes. The collaboration priority code list has the following attributes: ·High ·Low ·Medium		M	ExceptionCriteria
		HIGH		High priority exception	1/3		
		LOW		Low priority exception	1/3		
		MEDIUM		Medium priority exception	1/3		
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	

CriterionStatusCodeList	criterionStatus			Each exception criterion shall have an assigned criterion status code. This class provides the codes. The criterion status code list has the following attributes: ·Deleted ·New ·Revised	M	ExceptionCriteria
		DELETED		Deleted exception criterion	1/3	
		NEW		New exception criterion	1/3	
		REVISED		Revised exception criterion	1/3	
DataSourceCodeList	comparisonDataSource			DataSourceCode is an external class that originates in Plan Common. The data source code list has the following attributes: ·Buyer ·Seller	M	PlanComponentLibrary
	dataSource				M	
	dataSourceCode				M	
		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			
ExceptionCriteria				This is the root class for Exception Criteria.		M	ExceptionCriteria
ExceptionCriterion	criterion			This class links exception criterion for the type of exception, priority, status, comparison code, threshold, effective dates and item to the exception criteria. This class has no attributes.		M	ExceptionCriteria
ExceptionValueComparisonCodeList	exceptionValueComparison			Exception Value Comparison codes shall be established for each exception. This class provides the codes. The Exception Value Comparison Code List has the following attributes: ·Exceeds exception value ·Falls below exception value		M	ExceptionCriteria
		EXCEEDS_EXCEPTION_VALUE		The compared value exceeds the exception threshold			
		FALLS_BELOW_EXCEPTION_VALUE		The compared value falls below the exception threshold			
FMCGTradItemIdentification						O	FMCGIdentification
			value	The default value to be used for the field when that field is not present in the file.	1/80	M	
FMCGTradItemIdentificationList	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			
ForecastAccuracyExceptionCriterion				This establishes criterion for one of the two kinds of forecast trade item exceptions. This class identifies the exception as a forecast accuracy exception. This class has no attributes.		O	
ForecastComparisonExceptionCriterion				This establishes the criterion for one of the two kinds of forecast trade item exceptions. This class compares the buyer and seller data source(s) and identifies the time basis of comparison.		O	
ForecastDataItemExceptionCriterion				This establishes the criterion for one of the three types of exceptions. This class provides criteria for the kind of forecast exception, the identification of the purpose of the forecast, the source of data and the time basis criteria for the exception.		O	

			timeDeltaDaysQuantity	The time difference, in days, that determines if a forecast is still valid for generating exceptions.	1/25	O	
ForecastPurposeCodeList	forecastPurposeCode			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.		M	PlanComponentLibrary
		ORDER_FORECAST		Order Forecast	1/20		
		SALES_FORECAST		Sales Forecast	1/20		
ForecastTypeCodeList	forecastType			This external class originates in Plan Common and is a class that is used in more than one CPFR(r) class diagram. This class identifies the forecast type codes. The Forecast Purpose Code List has the following attributes: ·Base ·Promotional ·Seasonal ·Total		O	PlanComponentLibrary
		BASE		Base			
		PROMOTIONAL		Promotional			
		SEASONAL		Seasonal			
		TOTAL		Total			

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
Measurement	threshold			This external class originates in Measurement and is a class that is used in more than one class diagram. The measurement class provides the value for the actual impact.		M	PlanComponentLibrary
MeasurementValue				This external class originates in Measurement and is a class that is used in more than one CPFR class diagram. This class has an attribute unit of measure and allows for the value of the measurement.		M	Components
			unitOfMeasure	UN/ECE Recommendation 20. Unit of measure code.	1/15	M	
MetricExceptionCriterion				This establishes the criterion for one of the three types of exceptions. This class links the metric type code list to the exception criterion. This class has no attributes.		O	ExceptionCriteria

MetricTypeCodeList	metricType			This external class originates in Plan Common and is a class that is used in more than one CPFR(r) class diagram. This class identifies the metric type code. The metric type code list has the following attributes:·Fill rate·Forecast accuracy·Gross Margin·In Stock·On Time Delivery·Supply		M	PlanComponentLibrary
		FILL_RATE		Fill Rate			
		FORECAST_ACCURACY		Forecast Accuracy			
		GROSS_MARGIN		Gross Margin			
		IN_STOCK		In Stock			
		ON_TIME_DELIVERY		On Time Delivery			
		SUPPLY		Supply			
OperationalExceptionCriterion				This establishes the criterion for one of the three types of exceptions. This class links the activity type code list to the exception criterion. This class has no attributes.		O	

PartyIdentification	buyer			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. This can be either Seller assigned or Buyer assigned.	1/80	O	
TimePeriod	effectiveDate			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
	period					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

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/ExceptionCriteriaProxy.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>
          <documentCommandHeader type="ADD">
            <entityIdentification>
              <uniqueCreatorIdentification> MSG-123-20040110</uniqueCreatorIdentification>
              <contentOwner>
                <gln>0012345000359</gln>
              </contentOwner>
            </entityIdentification>
          </documentCommandHeader>
          <documentCommandOperand>
```

```

        <eanucc:exceptionCriteria creationDate="2004-01-10T12:00:01"
documentStatus="COPY" contentVersion="1.3.1" documentStructureVersion="1.3.1"
lastUpdateDate="2004-10-01">
    <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"/>
    <criterion xsi:type="eanucc:OperationalExceptionCriterionType"
criterionStatus="NEW" collaborationPriority="HIGH"
exceptionValueComparison="EXCEEDS_EXCEPTION_VALUE" activityType="SALES">
        <collaborativeTradelItem>
            <tradelItemIdentification>
                <gtin>00123450000584</gtin>
                <additionalTradelItemIdentification
xsi:type="fmcg:TradelItemIdentificationType" type="NABCA_PRODUCT_CODE">
                    <fmcg:value>Alternate Item Identification</fmcg:value>
                </additionalTradelItemIdentification>
            </tradelItemIdentification>
            <buyerLocation>
                <gln>0012345000359</gln>
            </buyerLocation>
            <sellerLocation>
                <gln>0012345000058</gln>
            </sellerLocation>
        </collaborativeTradelItem>
        <effectiveDate begin="2004-03-28" end="2004-03-28"/>
        <threshold>
            <measurementValue
unitOfMeasure="kgs">120000</measurementValue>
        </threshold>
    </criterion>
    <criterion xsi:type="eanucc:MetricExceptionCriterionType"
criterionStatus="NEW" collaborationPriority="HIGH"
exceptionValueComparison="EXCEEDS_EXCEPTION_VALUE" metricType="SUPPLY">
        <collaborativeTradelItem>
            <tradelItemIdentification>
                <gtin>00123450000584</gtin>
                <additionalTradelItemIdentification
xsi:type="fmcg:TradelItemIdentificationType" type="NABCA_PRODUCT_CODE">
                    <fmcg:value>Alternate Item Identification</fmcg:value>
                </additionalTradelItemIdentification>
            </tradelItemIdentification>
            <buyerLocation>
                <gln>0012345000359</gln>
            </buyerLocation>
            <sellerLocation>
                <gln>0012345000058</gln>
            </sellerLocation>
        </collaborativeTradelItem>
        <effectiveDate begin="2004-03-28" end="2004-03-28"/>
        <threshold>
            <measurementValue
unitOfMeasure="kgs">120000</measurementValue>
        </threshold>
    </criterion>
    <criterion xsi:type="eanucc:ForecastComparisonExceptionCriterionType"
criterionStatus="NEW" collaborationPriority="HIGH"
exceptionValueComparison="EXCEEDS_EXCEPTION_VALUE" forecastPurpose="SALES_FORECAST"
forecastType="BASE" dataSource="BUYER" comparisonDataSource="SELLER">
        <collaborativeTradelItem>
            <tradelItemIdentification>

```

```

        <gtin>00123450000584</gtin>
        <additionalTradeltemIdentification
xsi:type="fmcg:TradeltemIdentificationType" type="NABCA_PRODUCT_CODE">
        <fmcg:value>Alternate Item Identification</fmcg:value>
        </additionalTradeltemIdentification>
    </tradeltemIdentification>
    <buyerLocation>
        <gln>0012345000359</gln>
    </buyerLocation>
    <sellerLocation>
        <gln>0012345000058</gln>
    </sellerLocation>
</collaborativeTradeltem>
<effectiveDate begin="2004-03-28" end="2004-03-28"/>
<threshold>
    <measurementValue
unitOfMeasure="kgs">120000</measurementValue>
    </threshold>
    <timeDeltaDaysQuantity>20</timeDeltaDaysQuantity>
</criterion>
<criterion xsi:type="eanucc:ForecastAccuracyExceptionCriterionType"
criterionStatus="NEW" collaborationPriority="HIGH"
exceptionValueComparison="EXCEEDS_EXCEPTION_VALUE" forecastPurpose="SALES_FORECAST"
forecastType="BASE" dataSource="BUYER">
    <collaborativeTradeltem>
        <tradeltemIdentification>
            <gtin>00123450000584</gtin>
            <additionalTradeltemIdentification
xsi:type="fmcg:TradeltemIdentificationType" type="NABCA_PRODUCT_CODE">
            <fmcg:value>Alternate Item Identification</fmcg:value>
            </additionalTradeltemIdentification>
        </tradeltemIdentification>
        <buyerLocation>
            <gln>0012345000359</gln>
        </buyerLocation>
        <sellerLocation>
            <gln>0012345000058</gln>
        </sellerLocation>
    </collaborativeTradeltem>
    <effectiveDate begin="2004-03-28" end="2004-03-28"/>
    <threshold>
        <measurementValue
unitOfMeasure="kgs">120000</measurementValue>
        </threshold>
        <timeDeltaDaysQuantity>20</timeDeltaDaysQuantity>
    </criterion>
</eanucc:exceptionCriteria>
</documentCommandOperand>
</eanucc:documentCommand>
</command>
</eanucc:transaction>
</body>
</eanucc:envelope>

```