

EAN.UCC XML Business Message Standard For

Bulk Data for Product Activity

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:	Bulk Data for Product Activity	
Business Requirement Group:	Plan	
Business Requirement Document:	Bulk Data for Product Activity	
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**

**BULK DATA
For PRODUCT ACTIVITY
Version 0.2.3
June 30, 2003**

DOCUMENT HISTORY

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Document Summary

Document Title	EAN•UCC – Business Requirements Document For Bulk Data for Product Activity
Owner	Andrew Hearn – ahearn@uc-council.org
Abstract	
Status	ITRG Approved

Document Change History Log

Date of Change	Ver	Reason for Change	Summary of Change	CCR #
September 25, 2001	0.0.0	Initial issue		
September 28, 2001	0.1.0	Enhance class diagrams	Class diagrams, GDD and section 4 changed to meet xml schema needs. Business requirements have not been changed.	
October 26, 2001	0.2.0	Incorporate ITAG and EAN comments	Deleted date in footer. Revised 1.0, 1.1.2, 1.2 and added note to 5.0	
November 5, 2001	0.2.1	Editorial changes to diagrams	Edited 3.2.1. Removed attribute from bulk comment and added to high level class diagram & added definition to the GDD.	
March 27, 2003	0.2.2	Harmonisation version 1.3		
June 30, 2003	0.2.3	Incorporate ITRG Comments	Replaced Plan Common Class Diagram	

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 Bulk Data for Product Activity is a message format.

1.1 Overview – Bulk Data

Each bulk data message is a uniform series of records of a single message type. Records criteria include width, order of fields and default values.

A bulk data description may be provided with every batch file, or a single description may be used to describe all files of that type exchanged between a buyer and a seller.

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.

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 document provide the basis and context for the business requirements.

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

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 Bulk Data for Product Activity 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, logic 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 exchange of messages.

3.0 Requirements

3.1 General Requirements

Bulk data for product activity restricts the transfer of bulk data to product activity data.

Records may be fixed width, with a specific beginning and ending column numbers, or delimited (typically with a comma, space or tab character).

Fields may be in any order.

Default values may be specified for required items that are not in the file itself.

The path name identifies the specific file to be interpreted using a batch description; a file extension may also be specified, if all files with a particular extension share the same format.

3.2 Bulk Data for Product Activity Use Case Scenario

3.2.1 Business Opportunities/Problem Statement:

The objective is to establish and identify the criteria for the exchange of bulk data relative to product activity.

3.2.2 Stakeholders: Actors

Bulk data for product activity is a two-actor system involving a buyer and a seller.

3.2.3 Process Start State

The start-state for the exchange of bulk data for product activity is part of Step 1 of the CPFR® process.

3.2.4 Process End State

The end-state is the exchange of the bulk data.

3.2.5 Preconditions

Both trading partners engage in CPFR® Step 1.

3.2.6 Successful End Condition

The bulk data for product activity is sent and received.

3.2.7 Failed End Condition

The bulk data for product activity can be neither sent nor received.

3.2.8 Main Process Flow

1. Both trading partners have started CPFR® Step 1
2. Both trading partners agree on the fixed record width
3. Both trading partners agree on default values
4. Both trading partners agree on description rules
5. Both trading partners create, send and receive a trial message
6. Both trading partners exchange bulk product activity data

4.0 High Level Diagram

This section refers to the high level class diagram for bulk data. 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 Bulk Data for Product Activity

The Bulk Data for Product Activity classes are pictured on the high level class diagram. Classes are listed here alphabetically. These include:

- Bulk Data
- Bulk Record
- Product Activity Bulk Data
- Product Activity Bulk Record
- Product Activity Default Field
- Product Activity Delimited Field
- Product Activity Delimited Record
- Product Activity Field
- Product Activity Field Type Code List
- Product Activity Fixed Width Field
- Product Activity Fixed Width Record

4.1.1 Bulk Data

- This external class originates in Bulk Common and is a class that is used in more than one CPFR® class diagram. This is a type of plan document and links data to a bulk record.
-

4.1.2 Bulk Record

This external class originated in Bulk Common and is a class that is used in more than one CPFR® bulk class diagram. The bulk record links company ID format(s), location ID format(s) and date format(s).

4.1.3 Product Activity Bulk Data

This is the root class for bulk data for product activity and links a product activity bulk record to bulk data.

4.1.4 Product Activity Bulk Record

This class provides the record descriptor for the product activity bulk data and identifies the default fields, and the table as fixed field width or delimited field.

4.1.5 Product Activity Default Field

Product activity bulk records may have an assigned default or defaults. The product activity default field provides the default and has one attribute:

- Value

4.1.6 Product Activity Delimited Field

Each product activity delimited record has one or more delimited fields. This class has no attributes.

4.1.7 Product Activity Delimited Record

A product activity bulk record may be established as a product activity delimited record. This class provides the basis for the record. The product activity delimited record has two attributes:

- Delimiter
- Are string fields quote delimited

4.1.8 Product Activity Field

The product activity field class provides for the assignment of a field type code to the fields of a record. The field class has no attributes.

4.1.9 Product Activity Field Type Code list

Each field will have an assigned product activity field type from the field type code list. Product activity field type code list has the following attributes:

- Buyer Location Code
- Item Id
- Period Begin Date
- Period End Date
- Participating Locations
- Quantity

4.1.10 Product Activity Fixed Width Field

Each product activity fixed width record may have one or more fields. This class links the fields to the record. The product activity fixed width field has two attributes:

- Begin column number
- End column number

4.1.11 Product Activity Fixed Width Record

Each product activity bulk record may be either a fixed width record or a delimited record. This class links fixed fields to the record. This class one attribute to identify the number of columns.

- Number of columns

5.0 Global Data Dictionary: Data Attributes for Bulk Data for Product Activity

ProductActivityBulkData

ProductActivityBulkRecord

ProductActivityDefaultField

value: The default value to be used for the field when that field is not present in the file.

ProductActivityDelimitedField

ProductActivityDelimitedRecord

delimiter: Single character to be used as a field delimiter (e.g., comma, tab, or asterisk)

areStringFieldsQuoteDelimited: Indicator of whether string fields within the record are delimited by quotation marks.

ProductActivityField

ProductActivityFieldTypeCodeList

BUYER_LOCATION_CODE: Unique identifier of the buyer's location.

ITEM_ID: Unique identifier for the item.

PARTICIPATING_LOCATIONS: Integer number of locations participating in an event.

PERIOD_BEGIN_DATE: Earliest date of the data contained within the message.

PERIOD_END_DATE: Latest date of the data contained within the message.

QUANTITY: Decimal quantity of forecast or actual item movement.

ProductActivityFixedWidthField

beginColumnNumber: The beginning column number of the field. (The first column is column 1)

endColumnNumber: The ending column number of the field.

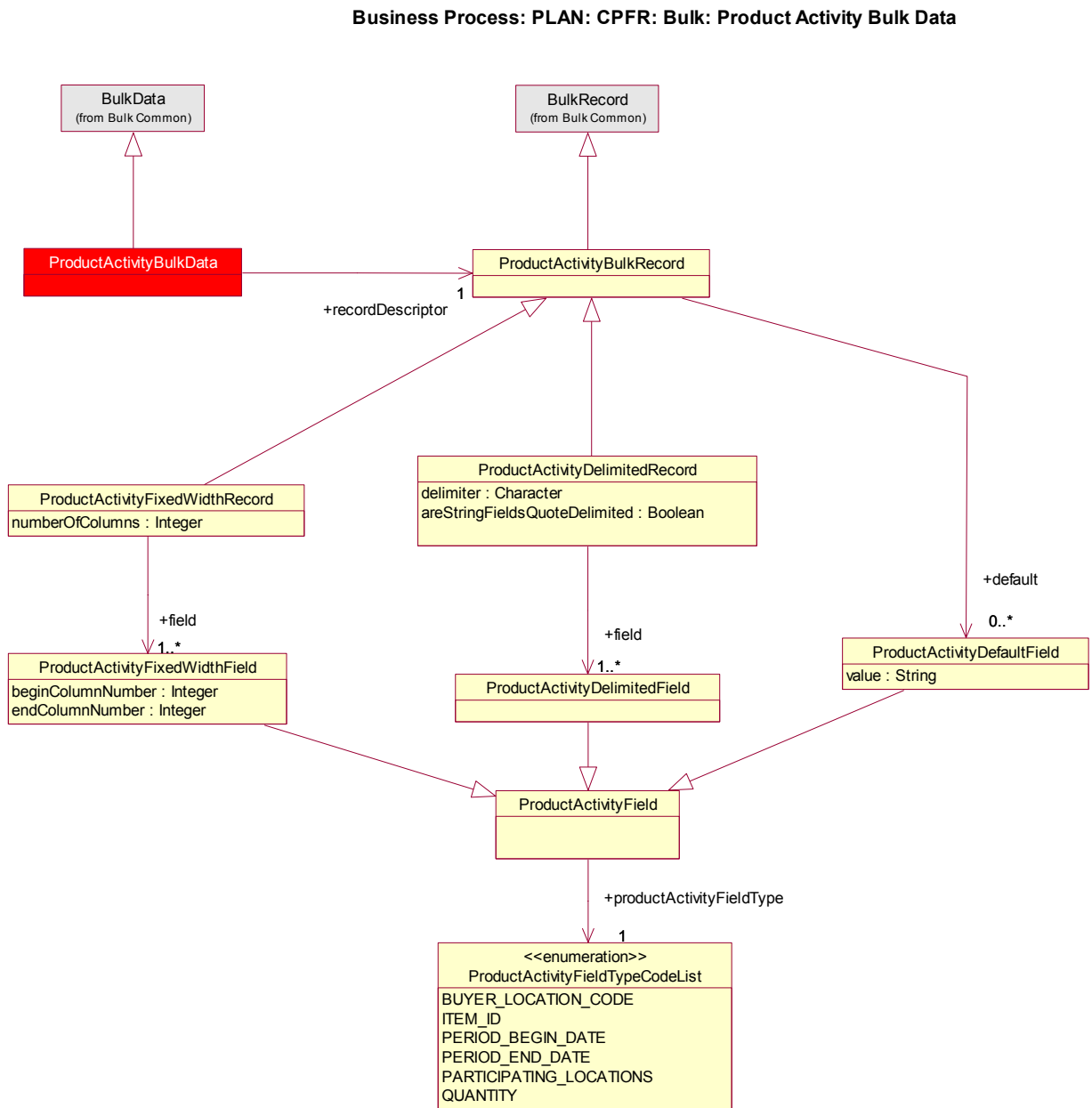
ProductActivityFixedWidthRecord

numberOfColumns: A count of the number of fields expected in Batch messages of this type.

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

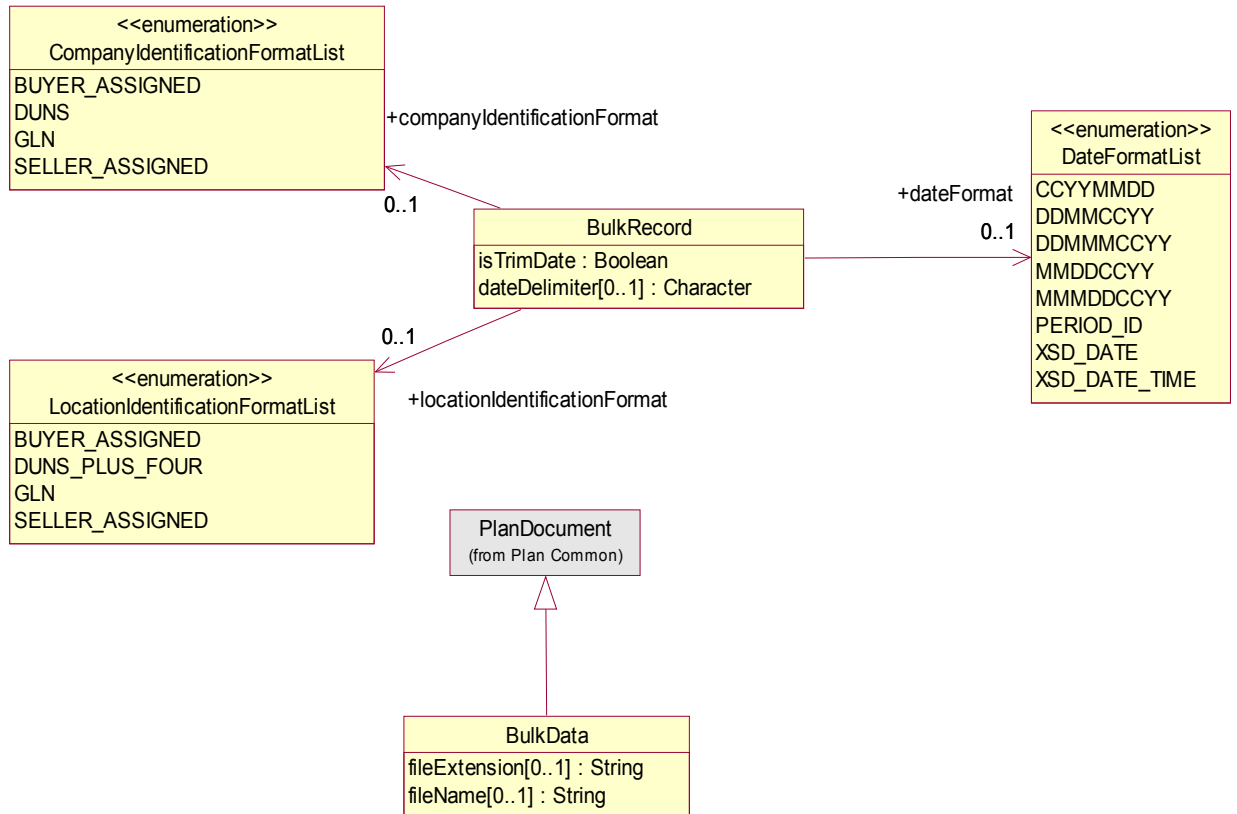
Appendices

Appendix 1: Class Diagram for Product Activity Bulk Data



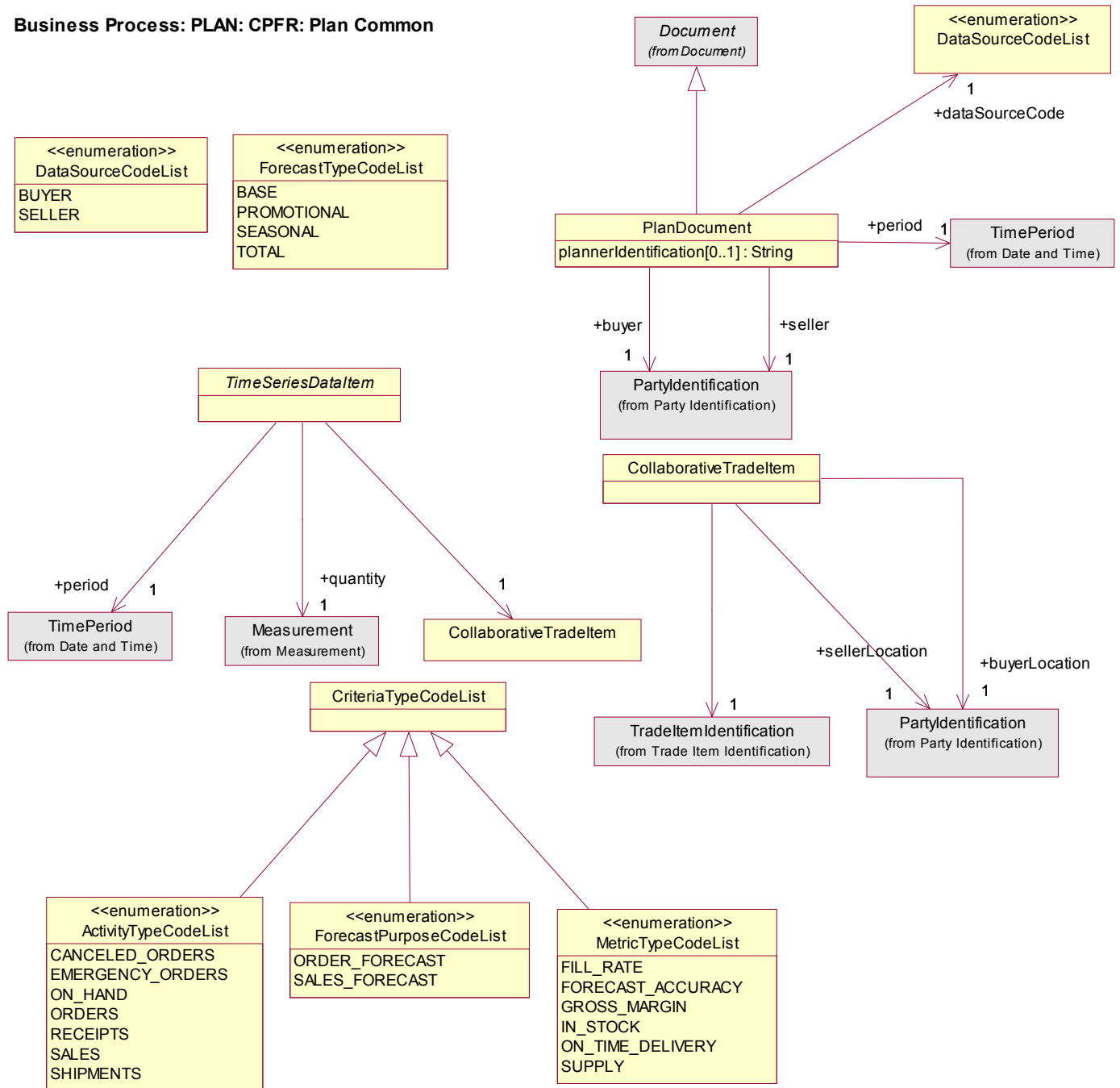
Appendix 2: Class Diagram from Bulk Common

Business Process: PLAN: CPFR: Bulk: Bulk Common



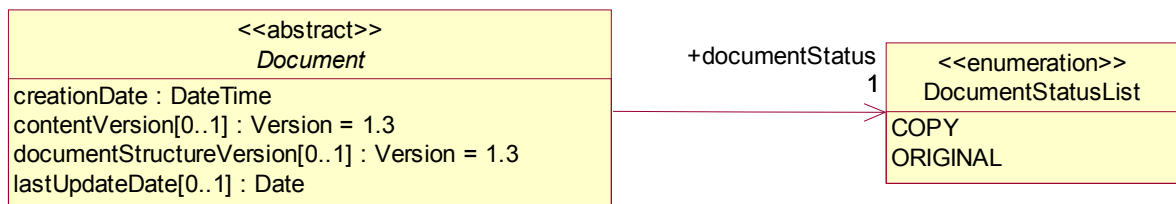
Appendix 3: Class Diagram from Plan Common

Business Process: PLAN: CPFR: Plan Common



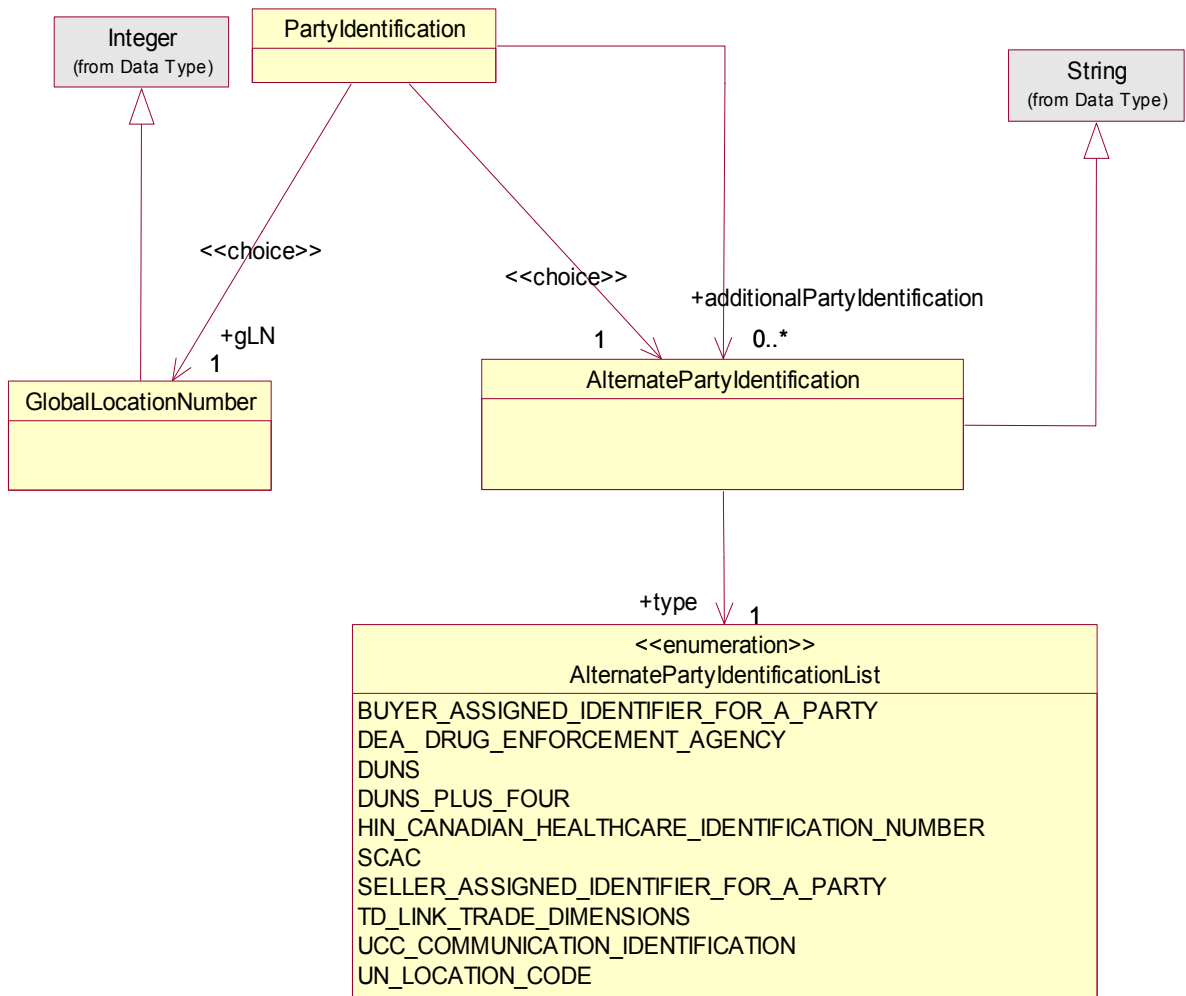
Appendix 4: Class Diagram from Document

Common Library :Common: Components: Document



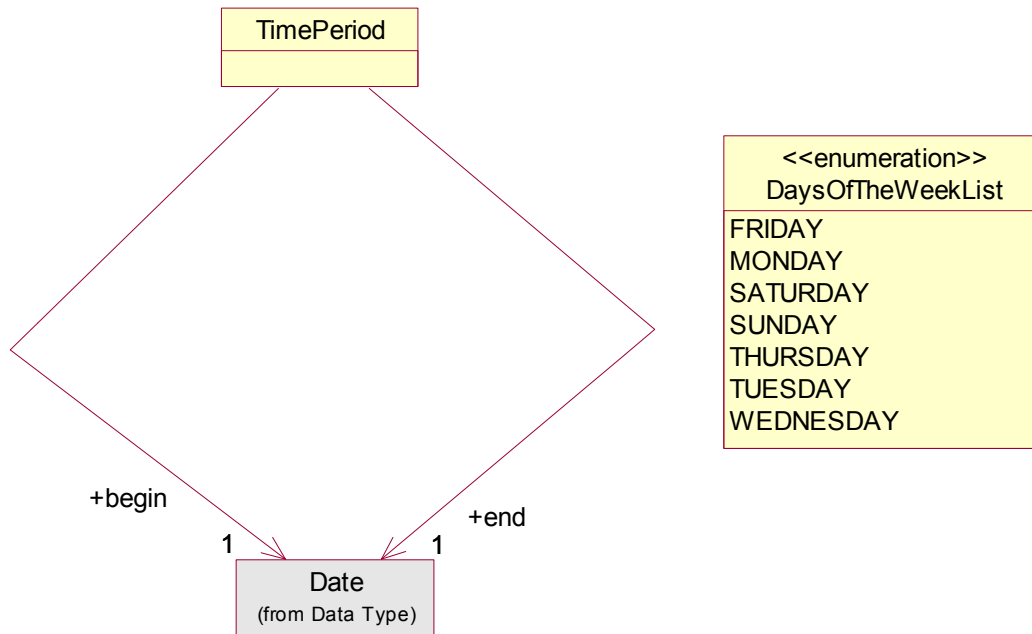
Appendix 5: Class Diagram from Party Identification

Common Library: Common: Identification: Party Identification



Appendix 6: Class Diagram from Date and Time

Common Library: Common: Components: Date and Time



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. 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
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Command ADD	Creator ID = MSG-123-20040110	Content Owner = 0012345000359
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Product Activity Bulk Data 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		

Product Activity Bulk Data Information

Planner ID	UCC	Data Source	BUYER
Seller	0012345000058	Buyer	0012345000359
Period Begin	March 28, 2004	Period End	March 29, 2004
File Extension	xml	File Name	productActivity

Record Descriptor

Type	eanucc:ProductActivityFixedWidthRecordType	Is Trim Date?	yes
Date Delimiter	:	Date Format	CCYYMMDD
Location ID Format	SELLER_ASSIGNED	Company ID Format	BUYER_ASSIGNED
Number of Columns	100		

Defaults

Type	Value
BUYER_LOCATION_CODE	1354872

Fields

Type	Begin Column Number	End Column Number
BUYER_LOCATION_CODE	1	12

GLOBAL DATA DICTIONARY

1.0 Bulk Product Activity Class Data Descriptions v1.3

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
AlternatePartyIdentification	additionalPartyIdentification			Only one primary party identifier is used for each party. If an alternate identifier, other than GLN is used, there is no guarantee of data integrity across the process. It is the responsibility of the company electing the choice to ensure data integrity.		O	Identification
AlternatePartyIdentificationList	type			Only one primary party identifier is used for each party. If an alternate identifier, other than GLN is used, there is no guarantee of data integrity across the process. It is the responsibility of the company electing the choice to ensure data integrity.		M	Identification
		BUYER_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.			
BulkData				This external class originates in Bulk Common and is a class that is used in more than one CPFR class diagram. This is a type of plan document and links data to a bulk record.		M	BulkCommon
			fileExtension	TBD	1/15	O	
			fileName	TBD	1/10	O	

BulkRecord				This external class originates in Bulk Common and is a class that is used in more than one CPFR bulk class diagram. The bulk record links company ID format(s), location ID format(s) and date format(s).		M	BulkCommon
			dateDelimiter	TBD	1/8	O	
			isTrimDate	A boolean field.	1/8	M	
CompanyIdentificationFormatList	companyIdentificationFormat			CompanyIdentificationFormatList is an external class that defines the allowable formats for Company Identification Formats.		O	BulkCommon
		BUYER_ASSIGNED		Buyer Assigned			
		DUNS		DUNS			
		GLN		GLN			
		SELLER_ASSIGNED		Seller Assigned			
DataSourceCodeList	dataSourceCode			DataSourceCode is an external class that originates in Plan Common. The data source code list has the following attributes: ·Buyer ·Seller		M	PlanComponent Library
		BUYER		Buyer			
		SELLER		Seller			
Date	begin					M	
	end						
DateFormatList	dateFormat			DateFormatList is an external class that defines the allowable formats for dates.		O	BulkCommon
		CCYYMMDD		CCYYMMDD			

		DDMMCCYY		DDMMCCYY			
		DDMMMCCYY		DDMMMCCYY			
		MMDDCCYY		MMDDCCYY			
		MMMDDCCYY		MMMDDCCYY			
		PERIOD_ID		Period ID			
		XSD_DATE		XSD Date			
		XSD_DATE_TIME		XSD Date Time			
Document				This class is used to specify the basic information about the context of the message.		M	Components
			creationDate	DateTime			
			contentVersion	Version = 1.3			
			documentStructureVersion	Version =1.3			
			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			
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
LocationIdentificationFormatList	locationIdentificationFormat			LocationIdentificationFormat List is an external class that defines the allowable formats for Location Identification.		O	BulkCommon
		BUYER_ASSIGNED		Buyer Assigned			

		DUNS_PLUS_FOUR		DUNS Plus Four			
		GLN		GLN			
		SELLER_ASSIGNED		Seller Assigned			
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 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
	seller					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	PlanComponent Library
			plannerIdentification	Generic field to denote the specific planner involved with planning this event. This can be either Seller assigned or Buyer assigned.		O	
ProductActivityBulkData				This is the root class for bulk data for product activity and links a product activity bulk record to bulk data.		M	ProductActivityBulkData
ProductActivityBulkRecord	recordDescriptor			This class provides the record descriptor for the product activity bulk data and identifies the default fields, and the table as fixed field width or delimited field.		M	ProductActivityBulkData
ProductActivityDefaultField	default			Product activity bulk records may have an assigned default or defaults. The product activity default field provides the default and has one attribute: Value		O	ProductActivityBulkData
			value	The default value to be used for the field when that field is not present in the file.	1/5	O	

ProductActivityDelimitedField	field			Each product activity delimited record has one or more delimited fields. This class has no attributes.		M	ProductActivityBulkData
ProductActivityDelimitedRecord				A product activity bulk record may be established as a product activity delimited record. This class provides the basis of the record. The product activity delimited record has two attributes: Are string fields quote delimited, Delimiter.		O	ProductActivityBulkData
			areStringFieldsQuoteDelimited	Indicator of whether string fields within the record are delimited by quotation marks	1/3	M	
			delimiter	Single character to be used as a field delimiter (e.g., comma, tab, or asterisk)	1/1	M	
ProductActivityField				The product activity field class provides for the assignment of a field type code to the fields of a record. The field has no attributes.		O	ProductActivityBulkData
ProductActivityFieldTypeCodeList	productActivityFieldType			Each field will have an assigned product activity field type from the field type code list. Product activity field type code list has the following attributes: Buyer location Code, Item Id, Period Begin Date, Period End Date, Participating Loc.		M	ProductActivityBulkData
		BUYER_LOCATION_CODE		Unique identifier of the buyer's location			
		ITEM_ID		Unique identifier for the item			

		PARTICIPATING_LOCATIONS		Integer number of locations participating in event.			
		PERIOD_BEGIN_DATE		Earliest date of the data contained within the message.			
		PERIOD_END_DATE		Latest date of the data contained within the message.			
		QUANTITY		Decimal quantity of forecast or actual item movement.			
ProductActivityFixedWidthField	field			Each product activity fixed width record may have one or more fields. This class links the fields to the record. The product activity fixed width field has two attributes: * Begin column number * End column number		M	ProductActivityBulkData
			beginColumnNumber	The beginning column number of a field (The first column is column 1)	1/5	M	
			endColumnNumber	The ending column number of the field.	1/5	M	
ProductActivityFixedWidthRecord				Each product activity bulk record may be either a fixed width record or a delimited record. This class links fixed fields to the record. This class one attribute to identify the number of columns. · Number of columns		O	ProductActivityBulkData
			numberOfColumns	A count of the number of fields expected in Batch messages of this type.			

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.	M	Components
------------	--------	--	--	--	---	------------

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/smp/schemas/fmcg"
xsi:schemaLocation="http://www.ean-ucc.org/schemas/1.3/eanucc
../2_XSD_PROXY/ProductActivityBulkDataProxy.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:productActivityBulkData creationDate="2004-01-10T12:00:01" documentStatus="COPY"
contentVersion="1.3" documentStructureVersion="1.3" lastUpdateDate="2004-10-01">
              <plannerIdentification>UCC</plannerIdentification>
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                <gln>0012345000058</gln>
              </seller>
            </eanucc:productActivityBulkData>
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  <gln>0012345000359</gln>
</buyer>
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  <dateDelimiter>:</dateDelimiter>
  <dateFormat>CCYYMMDD</dateFormat>
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  <companyIdentificationFormat>BUYER_ASSIGNED</companyIdentificationFormat>
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    <value>1354872</value>
  </default>
  <numberOfColumns>100</numberOfColumns>
  <field>
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    <beginColumnNumber>1</beginColumnNumber>
    <endColumnNumber>12</endColumnNumber>
  </field>
</recordDescriptor>
</eanucc:productActivityBulkData>
</documentCommandOperand>
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</eanucc:transaction>
</body>
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