

EAN.UCC XML
Business Message
Standard For

Control Totals – Buyer to Buyer's
Financial Institution

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 Pay 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:	Control Totals – Buyer to Buyer's Financial Institution	
Business Requirement Group:	Pay	
Business Requirement Document:	Control Totals – Buyer to Buyer's Financial Institution	
Business Requirements Group Manager:	Tom Heist	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**

**Control Totals -Buyer to Buyer's
Financial Institution**

Version 1.4

April 17, 2003

DOCUMENT HISTORY

Document Number:	1.4
Document Version:	1.4
Document Issue Date	April 17, 2003

Document Summary

Document Title	EAN?UCC – Business Requirements Document For 'Control Totals--Buyer to Buyer's Financial Institution'
Owner	Pay BRG UCC - mailto:theist@uc-council.org
Status	BRG Approved

Document Change History Log

Date of Change	Version	Reason for Change	Summary of Change	CCR #
04/10/2002	1.0		Approved BRD	
04/29/2002	1.1	Harmonization February 2002	1. Added 'TypedEntityIdentification' class to uniquely identify Control Total. 2. Changed 'SimpleDate' class to 'Date' class. 3. Broke EANUCC Common into Data Type, Extended Data Type, and Amount.	
05/03/2002	1.2	Change	1. Changed 'TypedEntityIdentification' class to 'EntityIdentification' class	
09/18/2002	1.3	Submit for ITRG approval	Final edit. No change to business requirements. Upgraded classes to current common enhancements:	
April 17, 2003	1.4	Harmonisation version 1.3.1		

Approvals

Name	Title	Signature	Date

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Preface:

The EAN.UCC System uses a process-to-data approach to the creation and maintenance of global standards.

The work of the Business Requirements Group (BRG) is to establish clear and unambiguous business requirements based upon validated business processes. The Business Requirements Document (BRD) is the vehicle by which business requirements are documented.

The BRD, when approved by the BRG, will be incorporated directly into subsequent standards documentation prepared by either the Information Technical Requirements Group (ITRG) or the Physical Technical Requirements Group (PTRG).

The Unified Modeling Language (UML) has been chosen for modeling business processes because of its current popularity and global acceptance. UML business process models form the basis from which business processes, supporting data and global standards are linked.

The 'Control Totals- Buyer to Buyer's Financial Institution' BRD is the result of the talents of the EAN.UCC Pay Business Requirements Group.

1.0 Business Opportunity:

1.1 Problem Statement:

As part of the financial checks and balances employed within a company, to insure that sufficient funds are available for payment by the financial institution, and in order to remove the possibility of the submission of fraudulent payment transactions, a validation process is needed to verify payment requests submitted to the paying financial institution.

Typically, payment transactions are generated by the accounts payable department of a company and forwarded to a financial institution for payment. As part of a company's control mechanism, a request has been made to have the capability of initiating a verification document to the financial institution, confirming the monetary value and count of payments to be made by the financial institution.

1.2 Audience:

The audience of the standards would be any participant in the global supply chain. This would include retailers, manufacturers, service providers and other third parties.

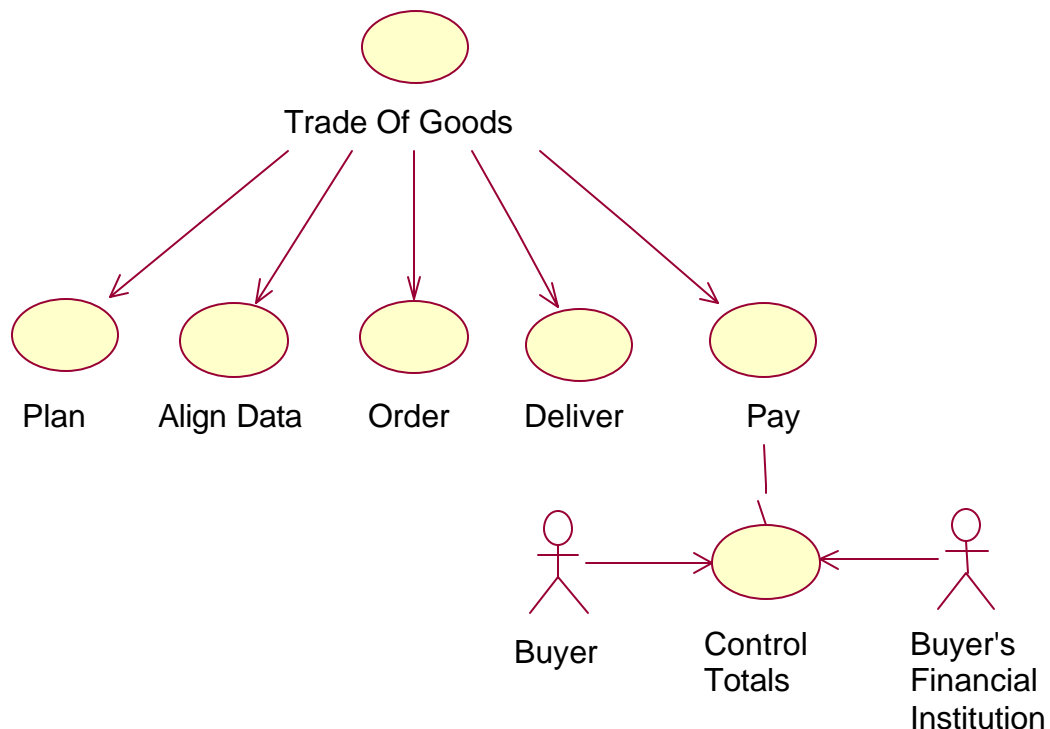
1.3 Acknowledgements:

Mickey Atkins	AHOLD Information Services
Janet Bailey	VF Corporation
Brian Barker	Wal-Mart Stores
Henry Gerstman	Century Business Credit Corporation
Joel Goldberg	Rosenthal & Rosenthal
Mark Gorman	HSBC Business Credit (USA) Inc.
Nancy Laskero	Sears, Roebuck & Company
John Little	Hershey Foods
Marie Perry	Coca Cola Enterprises Inc.
Diane Pruitt	SunTrust Bank
Ian Rogers	Cap Gemini Ernst & Young
Steve Rosenberg	UCC BRG Manager
John Ryu	UCC Business Process Modeler

2.0 Process View – General Requirements:

Buyer has sent one or more 'Settlement of Request for Payment(s)' to buyer's financial institution to process. Buyer sends to buyer's financial institution a Control Total amount and total number of the 'Settlement of Request for Payment(s)'.

2.1 Use Case Scenario:



2.1.1 Business Opportunity/Problem Statement

The objective of this document is to elaborate the 'Control Totals- Buyer to Buyer's Financial Institution' process in enough detail to support the construction of standards. It is assumed that the actors, both buyer and the buyer's financial institution, have established a business understanding of the trading partner relationship.

2.1.2 Actors

The two general actors in the 'Control Totals-Buyer to Buyer's Financial Institution' process are the "buyer" and the "buyer's financial institution". Depending on the specific nature of the relationship other players may have a role, such as a third party.

2.1.3 Preconditions

The 'Control Totals- Buyer to Buyer's Financial Institution' process begins when the following conditions have been met.

Buyer has sent one or more 'Settlement of Request for Payment(s)' to buyer's financial institution to process.

2.1.4 Process Start

The start-state for 'Control Totals- Buyer to Buyer's Financial Institution' process is the buyer sends control total number and amount to buyer's financial institution.

2.1.5 Process End

Control total and amount is received by buyer's financial institution

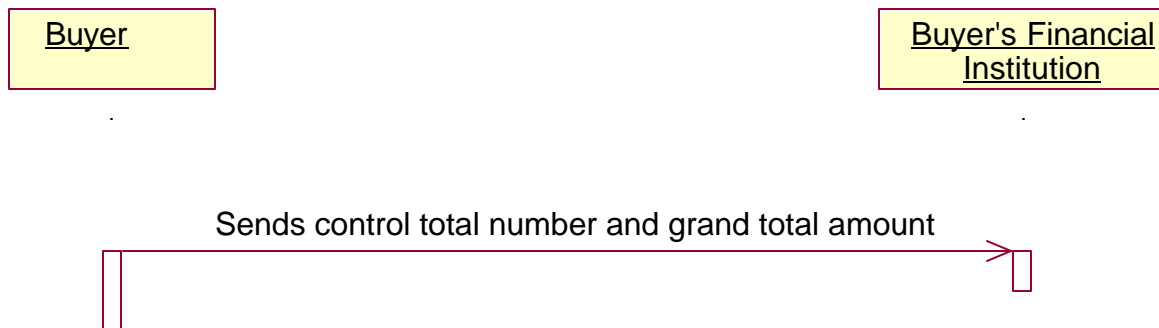
2.1.6 Post Conditions

None

2.1.7 Process Activities

Step #	Actor	Activity Step
1	Buyer	Buyer sends a control totals document to the financial institution, indicating the total number of 'Settlement of Request for Payment(s)' transmitted and grand total amount sent by the buyer (payer).

2.1.8 Sequence of Communications



3.0 Logical View

3.1 Control Totals - Buyer to Buyer's Financial Institution - Data Attributes

A 'Control Totals-Buyer to Buyer's Financial Institution' message includes attributes as follows.

Field	Mandatory/Optional	Comments/Attributes
Document	Mandatory	
		Content Version
		Creation Date
		Document Structure Version
		Last Update Date
		Document Status
Party Identification	Mandatory	
		Buyer
		Buyer Financial Institution
Reference Information	Optional	
		Batch Identification- Reference identification that identifies one or more transactions sent by the Buyer to the Financial Institution.
Date	Mandatory	
		Work-of Date-- The date to which the control totals refers.
Amounts	Mandatory	
		Amount Submitted—Monetary value of Settlement of Request for Payment transactions submitted for processing for a specific work-of date.
		Currency
		Transaction Count Processed - count of transactions processed for a specific work-of date

4.0 Control Totals-Buyer to Buyer's Financial Institution Data Attribute List:

This section refers to the class diagram for the Control Totals-Buyer to Buyer's Financial Institution scenario. 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.
- ?? Green indicates notes.

The Control Totals-Buyer to Buyer's Financial Institution classes are pictured and the classes are listed alphabetically. These include:

- ?? Amount
- ?? Control Total
- ?? Control Total Detail
 - ?? Document
 - ?? Entity Identification
 - ?? Party Identification

4.1 Amount

1. This external class originates from Amount.
2. This is a mandatory class to determine the amount submitted.
3. Amount will define the value and the currency for the amount submitted.
4. Amount class contains one attribute.
 - ?? Currency ISO Code: The identification of the name or symbol of the amount. The ISO 4217 three-character alpha code is used.

4.2 Control Total

1. Control Total class is the root of the 'Control Totals-Buyer to Buyer's Financial Institution' class diagram.
2. This Control Total class inherits attributes from the Document class.
3. There are two mandatory associations to the Party Identification class with role names of buyer and buyer Financial Institution.
4. There is a mandatory and possible multiple occurrence association to Control Total Detail class with a role name of detail.
5. There is a mandatory association to Entity Identification class with a role name of control total identification.
6. The class contains no attributes.

4.3 Control Total Detail

1. Control Total Detail class has one mandatory association to Amount class with a role name of amount submitted.
2. The class contains four attributes.
 - ?? Batch Identification
 - ?? Counter
 - ?? Transaction Count Processed
 - ?? Work Of Date

4.4 Document

1. This external class originates from Document.
2. It contains four attributes.
 1. Content Version: This is a version number for the content of the document.
 2. Creation Date: This is the date and time the message was created. The format is 'CCYYMMDDTHHMMSS'
 3. Document Structure Version: This is a version number for the structure of the document
 4. Last Update Date: This is the last update date for the specific document. The format is 'CCYYMMDD'

4.5 Entity Identification

1. This external class originates from Entity Identification.
2. There is a mandatory role of control total identification.
3. It contains one attribute.
 - ?? Unique Creator Identification – unique identifier of the entity Type.

4.6 Party Identification

1. This external class originates from Party Identification.
2. It is recommended to use Global Location Number as the primary party identification.
3. There are two mandatory roles of buyer and buyer Financial Institution.
4. The class contains no attributes.

5.0 Global Data Dictionary: Data Attributes for Control Totals – Buyer to Buyer's Financial Institution

ControlTotal

ControlTotalDetail

batchIdentification:

Reference identification that identifies one or more transactions sent by the Buyer to the Financial Institution.

counter: TBD

transactionCountProcessed:

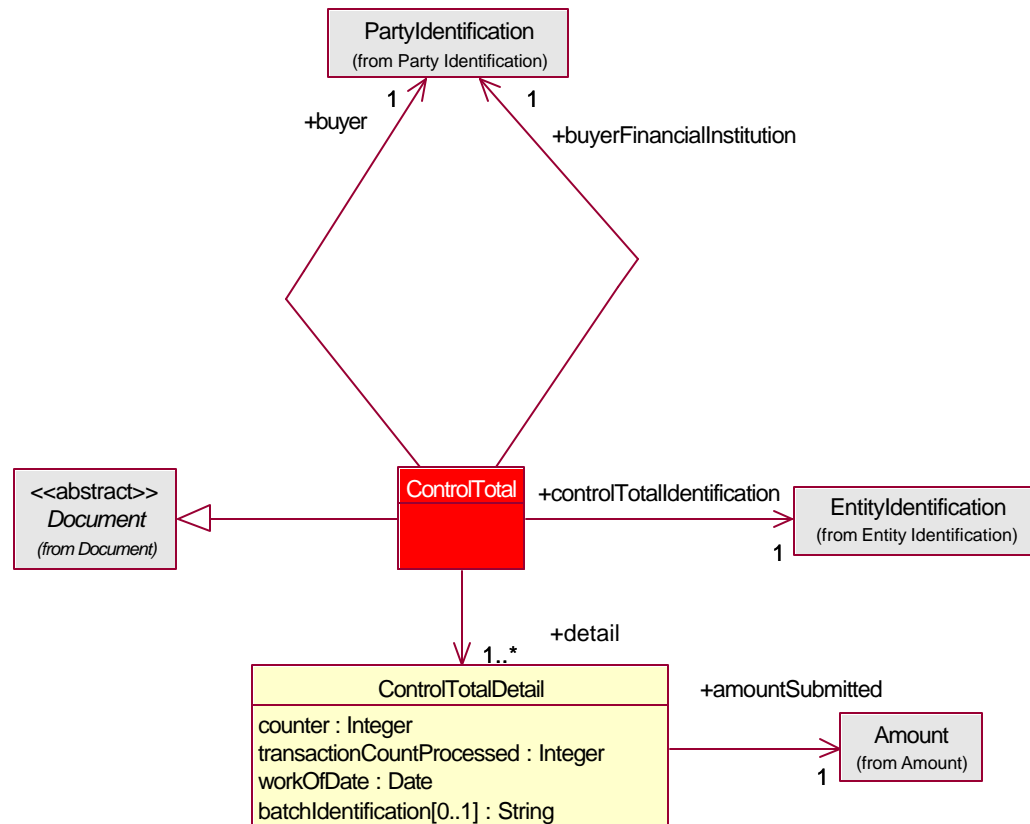
Count of transactions processed for a specific work-of date

workOfDate:

The date to which the control totals refers.

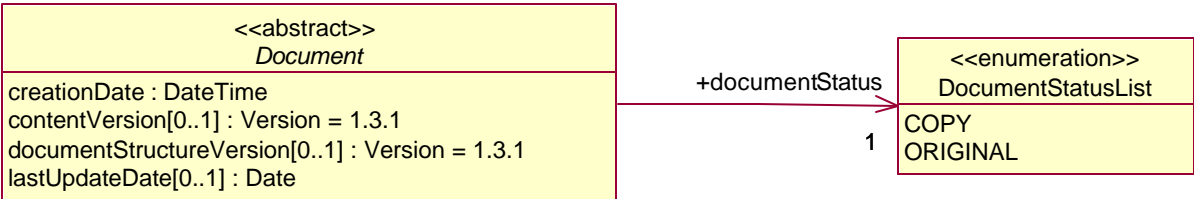
Appendix 1 Class Diagram: Control Totals- Buyer to Buyer's Financial Institution

Business Process: PAY: Control Total



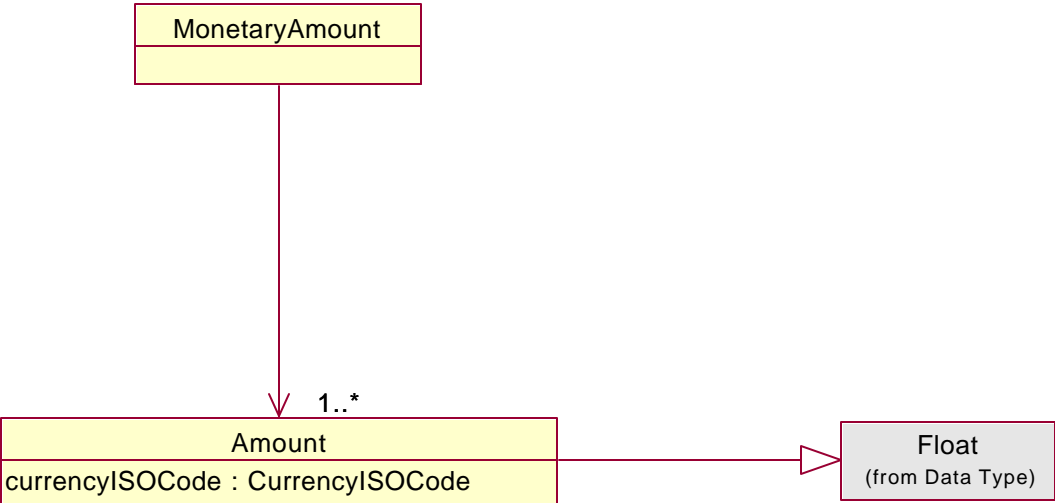
Appendix 2 Class Diagram: Document

Common Library: Common: Components: Document



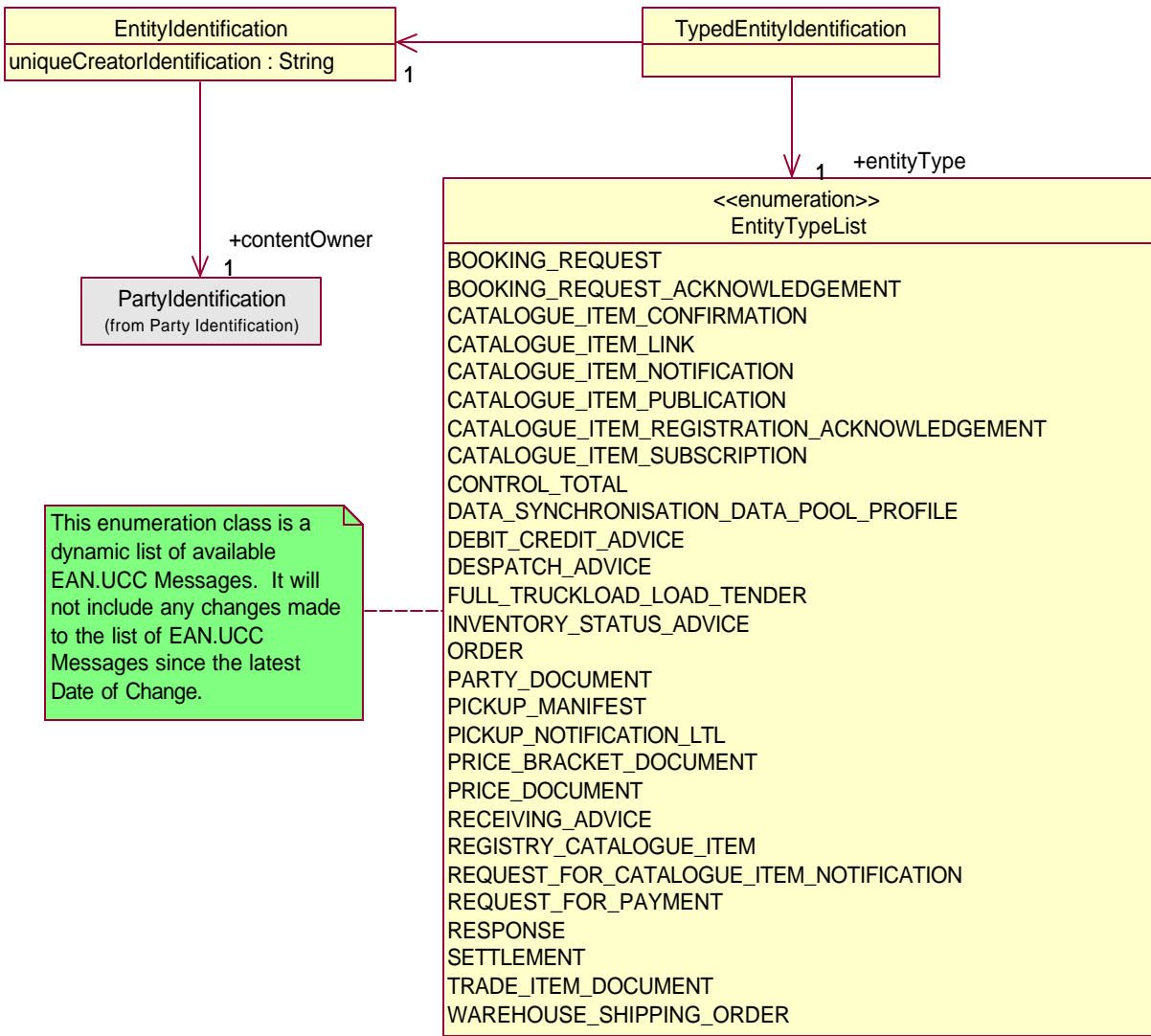
Appendix 3 Class Diagram: Amount

Common Library: Common: Components: Amount



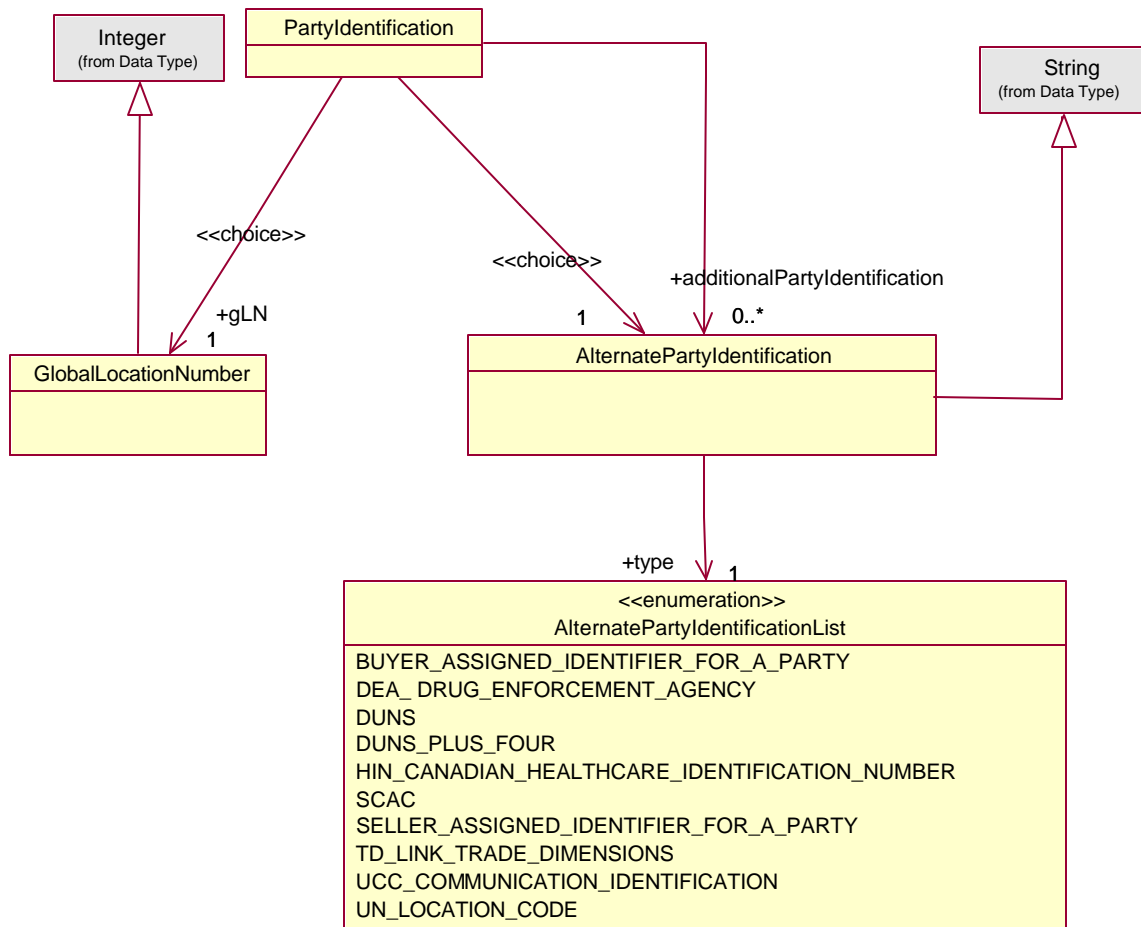
Appendix 4 Class Diagram: Entity Identification

Common Library: Common: Identification: Entity Identification



Appendix 5 Class Diagram: Party Identification

Common Library: Common: Identification: Party



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	August 02, 2001 12:00:00	Representing Party	0012345000065
Msg From Party	0614141000012	Msg To Party	0012345000065

Transaction

Creator ID = OJGROWER-TRANS-12345

Content Owner = 0614141000012

Command ADD

Creator ID = OJGROWER-ITEM-12345

Content Owner = 0614141000012

Control Total Document

Creator ID = CT0123

Content Owner = 0012345000359

Document Information

Creation Date	June 28, 2001 12:13:14	Last Update Date	June 28, 2001
Content Version	1.3.1	Doc Structure Version	1.3.1
Status	ORIGINAL		

Control Total Information

Buyer	0012345000359	Buyer Financial Institution	0614141000052
--------------	---------------	------------------------------------	---------------

Control Total Details

Counter	Work Of Date	Transaction Count Processed	Amount Submitted	Batch ID
1	March 28, 2004	10	10.2	B00120040110
2	March 29, 2004	12	125.2	B00220040110

Global Data Dictionary

Control Totals – Buyer to Buyer's Financial Institution 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
AlternatePartyIdentification				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.		CM	Identification
	additionalPartyIdentification					O	
AlternatePartyIdentificationList	type			Only one primary party identifier is used for each party. If an alternate identifier, other than GLN is used, there is no guarantee of data integrity across the process. It is the responsibility of the company electing the choice to ensure data integrity.		M	Identification
		BUYER_ASSIGNED_IDENTIFIER_FOR_A_PARTY		This optional code will be used for cross-reference on a one-to-one relationship.			
		DEA_DRUG_ENFORCEMENT_AGENCY		This optional code will be used for cross-reference on a one-to-one relationship.			
		DUNS		This optional code will be used for cross-reference on a one-to-one relationship.			
		DUNS_PLUS_FOUR		This optional code will be used for cross-reference on a one-to-one relationship.			
		HIN_CANADIAN_HEALTHCARE_IDENTIFICATION_NUMBER		This optional code will be used for cross-reference on a one-to-one relationship.			

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
		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.			
Amount	amountSubmitted			This external class originates from Amount. This is a mandatory class to determine the amount submitted. Amount will define the value and the currency for the amount submitted. This class contains one attribute.		M	
			currencyISOCode	Currency ISO Code.			
ControlTotal				Control Total class is the root of the Control Totals – Buyer to Buyer's Financial Institution' and inherits attributes from the Document class. There are two mandatory associations to the Party Identification class with role names of buyer and buyer Financial Institution. There is a mandatory and possible multiple occurrence association to Control Total Detail class with a role name of detail. There is a mandatory association to Entity Identification class with a role name of control Total Identification. This class contains no attributes.		M	

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
ControlTotalDetail	detail			This class has one mandatory association to Amount class with a role name of amount submitted. This class contains four attributes. Batch Identification Counter Transaction Count Processed Work Of Date		M	
			batchIdentification	String		O	
			counter	Integer		M	
			transactionCountProcessed	Integer		M	
			workOfDate	Date		M	
Document				This class is used to specify the basic information about the context of the message.		M	Components
			creationDate	Datetime		M	
			contentVersion	Version = 1.3.1		O	
			documentStructureVersion	Version = 1.3.1		O	
			lastUpdateDate	Date		O	
DocumentStatusList	documentStatus			Indicates if the document is a copy or an original.		M	Components
		COPY		A copy of the original document.			
		ORIGINAL		The original document.			
EntityIdentification	controlTotalIdentification			This external class originates from Entity Identification. The unique identification for the settlement and reference identification is mandatory.		M	Identification
			uniqueCreatorIdentification	String	1/80	M	

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
EntityTypeList	entityType					M	Identification
		BOOKING_REQUEST		Booking request			
		BOOKING_REQUEST_ACKNOWLEDGEMENT		Booking request acknowledgement			
		CATALOGUE_ITEM_CONFIRMATION		Catalogue item confirmation			
		CATALOGUE_ITEM_LINK		Catalogue item link			
		CATALOGUE_ITEM_NOTIFICATION		Catalogue item notification			
		CATALOGUE_ITEM_PUBLICATION		Catalogue item publication			
		CATALOGUE_ITEM_REGISTRATION_ACKNOWLEDGMENT		Catalogue item registration acknowledgement			
		CATALOGUE_ITEM_SUBSCRIPTION		Catalogue item subscription			
		CONTROL_TOTAL		Control total			
		DATA_SYNCHRONISATION_DATA_POOL_PROFILE		Data synchronisation data pool profile			
		DEBIT_CREDIT_ADVICE		Debit credit advice			
		DESPATCH_ADVICE		Despatch advice			
		FULL_TRUCKLOAD_LOAD_TENDER		Full truckload load tender			
		INVENTORY_STATUSES_ADVICE		Inventory status advice			
		ORDER		Order			
		PARTY_DOCUMENT		Party document			

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
		PICKUP_MANIFEST		Pickup manifest			
		PICKUP_NOTIFICATION_LTL		Pickup notification LTL			
		PRICE_BRACKET_DOCUMENT		Price bracket document			
		PRICE_DOCUMENT		Price document			
		RECEIVING_ADVICE		Receiving advice			
		REGISTRY_CATALOGUE_ITEM		Registry catalogue item			
		REQUEST_FOR_CATALOGUE_ITEM_NOTIFICATION		Request for catalogue item notification			
		REQUEST_FOR_PAYMENT		Request for payment			
		RESPONSE		Response			
		SETTLEMENT		Settlement			
		TRADE_ITEM_DOCUMENT		Trade item document			
		WAREHOUSE_SHIPPING_ORDER		Warehouse shipping order			
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.		CM	Identification
MonetaryAmount						M	

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
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
	buyerFinancialInstitution		CONTENTOWNER			M	
TypedEntityIdentification				This external class originates from Entity Identification and is mandatory. This class contains no attributes.		M	ControlTotal

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="../../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" xsi:schemaLocation="http://www.ean-ucc.org/schemas/1.3.1/eanucc ../2_XSD_PROXY/ControlTotalProxy.xsd" communicationVersion="1.3.1">
  <messageHeader creationDate="2001-08-02T12:00:00">
    <userId>OJGROWER-12345</userId>
    <password>SECRET</password>
    <messageIdentifier>MSG-123</messageIdentifier>
    <to>
      <gln>0012345000065</gln>
    </to>
    <from>
      <gln>0614141000012</gln>
    </from>
    <representingParty>
      <gln>0012345000065</gln>
    </representingParty>
  </messageHeader>
  <body>
    <eanucc:transaction>
      <entityIdentification>
        <uniqueCreatorIdentification>OJGROWER-TRANS-12345</uniqueCreatorIdentification>
        <contentOwner>
          <gln>0614141000012</gln>
        </contentOwner>
      </entityIdentification>
      <command>
        <eanucc:documentCommand>
          <documentCommandHeader type="ADD">
            <entityIdentification>
              <uniqueCreatorIdentification>OJGROWER-ITEM-12345</uniqueCreatorIdentification>
              <contentOwner>
                <gln>0614141000012</gln>
              </contentOwner>
            </entityIdentification>
          </documentCommandHeader>
          <documentCommandOperand>
            <eanucc:controlTotal creationDate="2001-06-28T12:13:14" documentStatus="ORIGINAL "
contentVersion="1.3.1" documentStructureVersion="1.3.1" lastUpdateDate="2001-06-28">
```

```
<controlTotalIdentification>
  <uniqueCreatorIdentification>CT0123</uniqueCreatorIdentification>
  <contentOwner>
    <gln>0012345000359</gln>
  </contentOwner>
</controlTotalIdentification>
<buyer>
  <gln>0012345000359</gln>
</buyer>
<buyerFinancialInstitution>
  <gln>0614141000052</gln>
</buyerFinancialInstitution>
<detail>
  <counter>1</counter>
  <workOfDate>2004-03-28</workOfDate>
  <transactionCountProcessed>10</transactionCountProcessed>
  <amountSubmitted currencyISOCode="USD">10.2</amountSubmitted>
  <batchIdentification>B00120040110</batchIdentification>
</detail>
<detail>
  <counter>2</counter>
  <workOfDate>2004-03-29</workOfDate>
  <transactionCountProcessed>12</transactionCountProcessed>
  <amountSubmitted currencyISOCode="USD">125.2</amountSubmitted>
  <batchIdentification>B00220040110</batchIdentification>
</detail>
</eanucc:controlTotal>
</documentCommandOperand>
</eanucc:documentCommand>
</command>
</eanucc:transaction>
</body>
</eanucc:envelope>
```