

EAN.UCC XML
Business Message
Standard For
Simple Invoice Extension

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:	Simple Invoice Extension	
Business Requirement Group:	Pay	
Business Requirement Document:	Simple Invoice Extension	
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 Simple Invoice Extension

Version 1.2

April 2003

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Document History

Document Version:	Version 1.2
Document Issue Date	April 2003

Document Change History Log

Date of Change	Version	Reason for Change	Summary of Change
July 2001	1.0	Version 1.0 Release	
April 2003	1.2	Harmonisation version 1.3.1	

1.0 Overview of Simple Invoice Extension

The Simple Invoice Extension to Core Request for Payment contains data relative to pricing and reference numbers. It can be used in conjunction with the Core Request for Payment message in a business-to-business exchange of Simple Invoice information between trading partners. As an

2.0 Simple Invoice Extension Attribute List

extension, it cannot be used independently.

This section refers to the class diagram for the 'Simple Invoice Extension' 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 'Simple Invoice Extension' classes are pictured and are listed alphabetically. These include:

- ?? Line Item
- ?? Reference
- ?? Request For Payment
- ?? Simple Invoice
- ?? Simple Invoice Line Item

2.1 Line Item

1. This external class originates from Document.
2. The unique identification for Invoice Line Item is mandatory.
3. The class contains one attribute:
 - ?? Number

2.2 Reference

1. This external class originates from Document.
2. This class is required to specify the buyer's order identification and order date for the shipment. Optionally, a delivery note may be included. A Reference requires both the number and associated date.
3. The class contains two attributes:
 - ?? Reference Date
 - ?? Reference Identification

2.3 Request for Payment

1. This class originates from Request for Payment and is mandatory.
2. The Simple Invoice class inherits the association and attributes of the Request For Payment.
3. The class contains no attributes.

2.4 Simple Invoice

1. Simple Invoice class is the root of the class diagram.
2. There is one mandatory association to the Request for Payment class.
3. There are two associations to the Reference class with role names of order Identification (mandatory) and delivery Note (optional).
4. The class contains one attribute:
?? Total Amount

2.5 Simple Invoice Line Item

1. Simple Invoice Line Item is a mandatory class holding the net price (net price per unit of product, service or commodity) and total line amount (extended line item amount).
2. It has a mandatory association with Invoice Line Item.
3. The class has two attributes:
?? Net Price
?? Total Line Amount

3.0 Global Data Dictionary Report

SimpleInvoiceLineItem

totalAmount: Monetary Amount

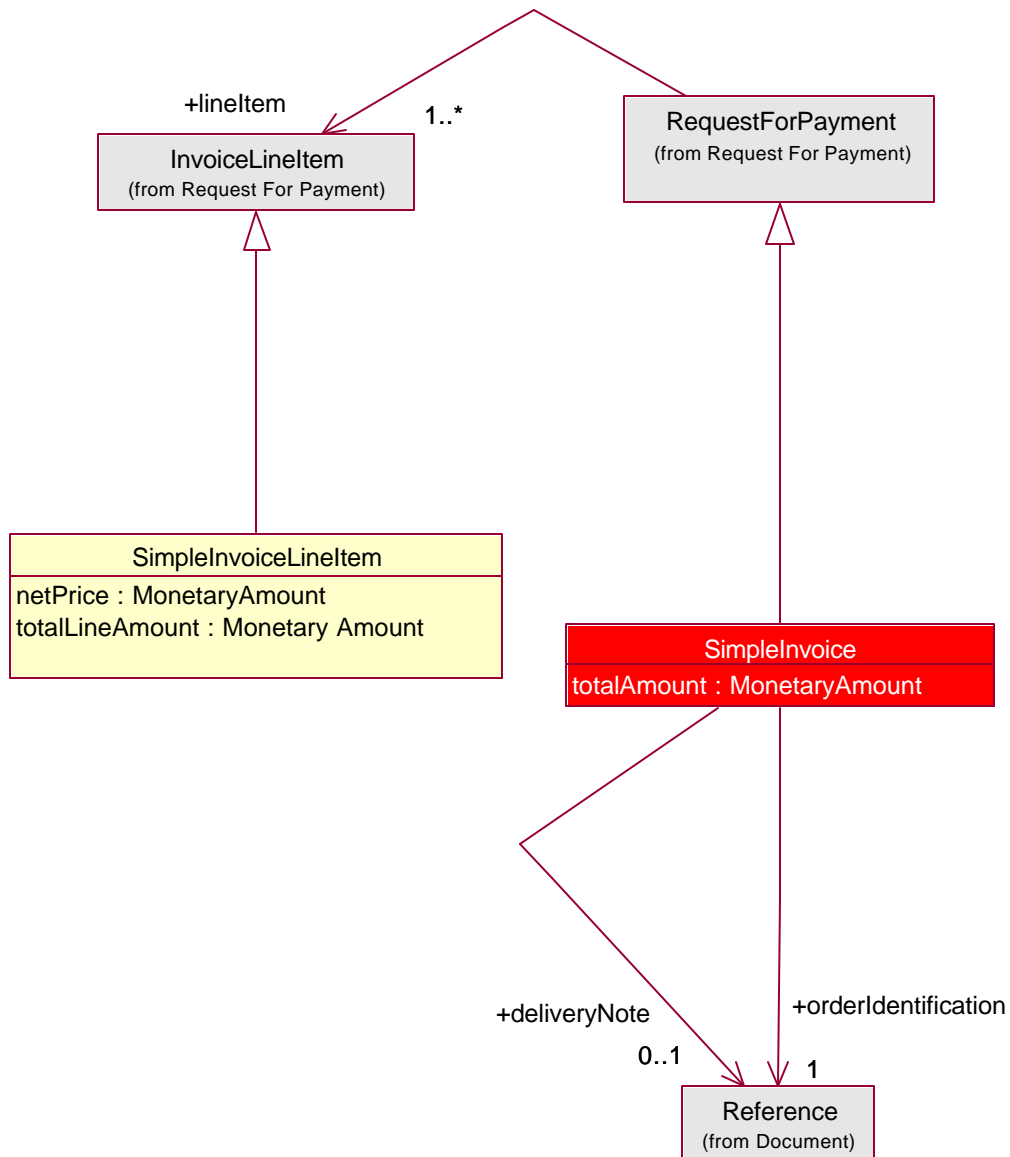
SimpleInvoiceLineItem

netPrice: Monetary Amount

totalLineAmount: Monetary Amount

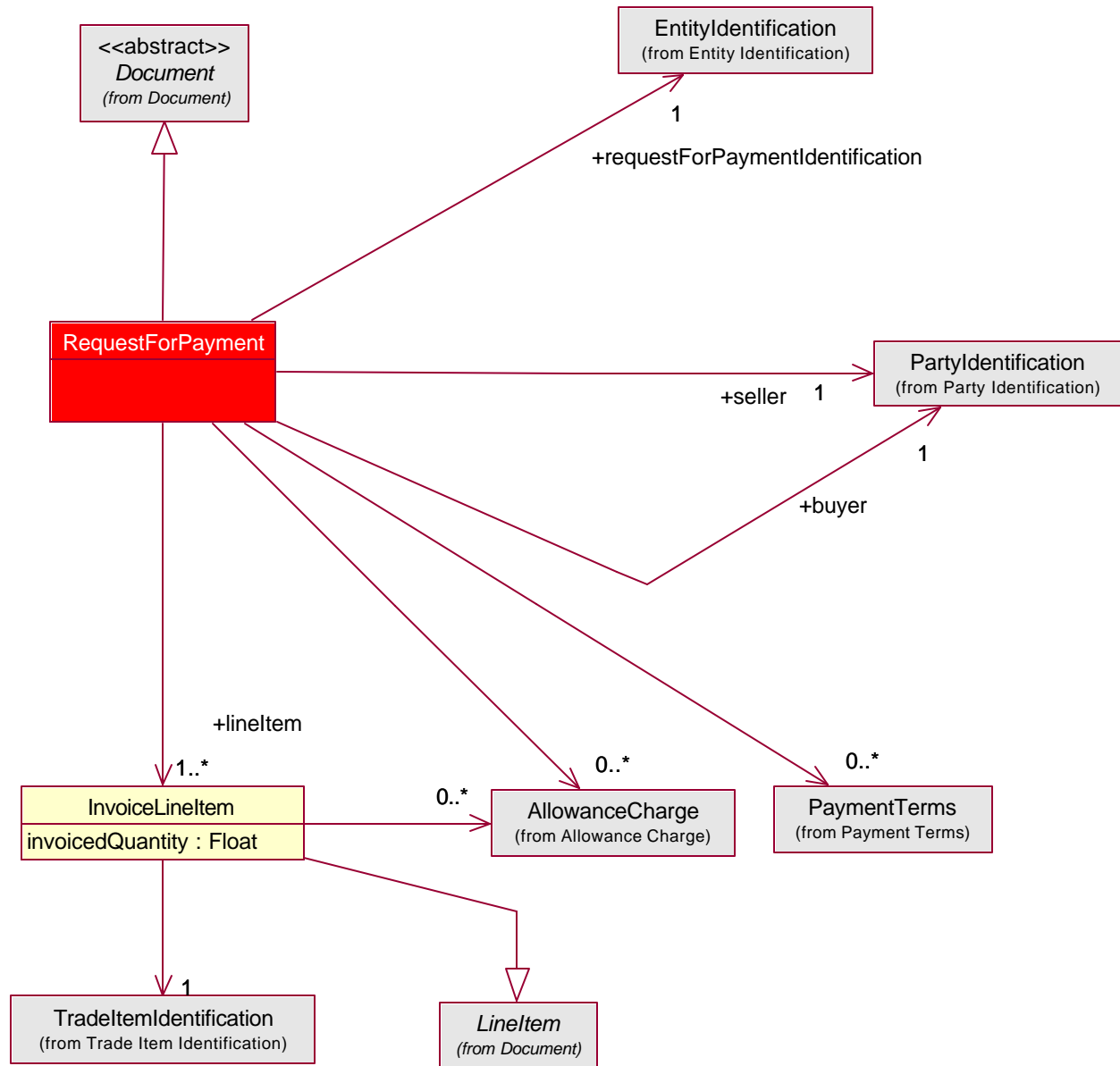
Appendix 1 Class Diagram for Simple Invoice

Business Process: PAY : Request For Payment: Simple Invoice



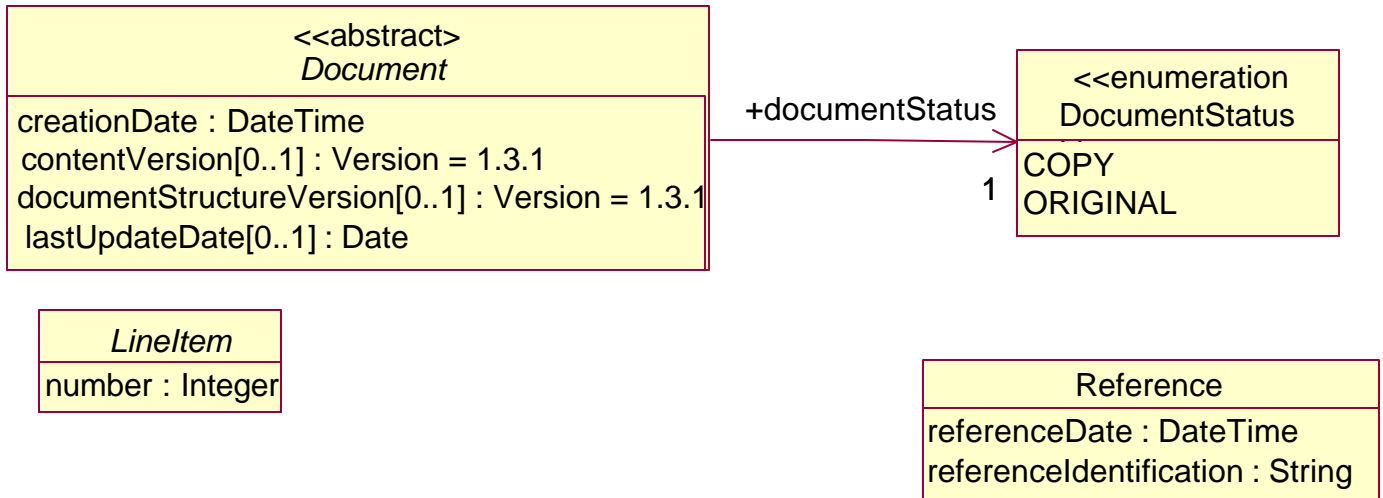
Appendix 2 Class Diagram for Simple Core Request for Payment

Business Process: PAY: Request For Payment



Appendix 3 Class Diagram for Document

Common Library: Common: Components: Document



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

Request for Payment Document

Creator ID = OJGROWER-TRANS-12345

Content Owner = 0614141000012

Document Information

Creation Date	January 10, 2004 12:00:01	Last Update Date	October 1, 2004
Content Version	1.3.1	Doc Structure Version	1.3.1
Status	ORIGINAL		

Request for Payment Information

Buyer	1234567890123	Seller	0614141000012
--------------	---------------	---------------	---------------

Simple Invoice Information

Order Ref. ID	34	Ref. Date	June 28, 2004 12:13:14
Total Amount	122.00		

Line Item 123

Trade Item	01234567891234	Invoiced Quantity	121
Net Price	2.00 USD	Total Line Amount	122.00 USD

Line Item Allowance or Charge 1

Allowance or Charge	ALLOWANCE	Type	ALLOWANCE_GLOBAL
Settlement Type	BILL_BACK	Effective Date Type	EFFECTIVE_DATE
Price Bracket List	TOP		
Description	(EN) Allowance charge description		
Base Amount	Rate per Unit: 98 (18.12 USD, 54 % , 7 LBS)	Monetary Amounts/Pcts	Rate per Unit: 1234 (123.12 USD, 24 % , 2 LBS)

Allowances or Charges

Allowance or Charge 1

Allowance or Charge	ALLOWANCE	Type	ALLOWANCE_GLOBAL
Settlement Type	BILL_BACK	Effective Date Type	EFFECTIVE_DATE
Price Bracket List	TOP		
Description	(EN) Euro		
Base Amount	Rate per Unit: 98 (18.12 USD, 54 % , 7 LBS)	Monetary Amounts/Pcts	Rate per Unit: 1234 (123.12 USD, 24 % , 4 LBS)

Payment Terms

Payment Terms 1

Type	BASIC_(NET)	Event	ANTICIPATED_DELIVERY_DATE
Net Payment	30 DAYS	Installment Due	12 % , 28 DAYS
Proximo Cut Off Day	23		
Discounts			
Type	Description	Time Period	
100	(EN) Carrier missed scheduled delivery appointment	30 DAYS	

Global Data Dictionary

Simple Invoice Extension 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
AllowanceCharge						CM	
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	orderIdentification			This external class originates from Entity Identification. The unique identification for the settlement and reference identification is mandatory.		M	Identification
	reference		uniqueCreatorIdentification	String	1/80	M	
	requestForPaymentIdentification						
InvoiceLineItem	lineItem					M	
			invoicedQuantity	Float			
LineItem				This external class originates from Document. Settlement Line Item class inherits from the Line Item.		M	Components
			number	This is the line item number represented in Integer.		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
	contentOwner					M	
	seller					M	
PaymentTerms						CM	
Reference				This external class originates from Document and is required to specify the buyer;s order identification and order date for the shiopment. Optionally, a delivery not may be included. A Reference requires both the number and associated date. This class contains two attributes: - Reference Date - Reference identification		CM	
	deliveryNote					O	
	orderIdentification		referenceDate	DateTime		M	
			referenceIdentification	String		M	

Class Name	Role Name	Enumerated Value for List Class	Attribute Name	Description	Min/Max Size	M/O	EAN.UCC XSD
RequestForPayment				This class originates from Request for Payment and is mandatory. The Simple Invoice class inherits the association and attributes of the Request For Payment. This class contains no attributes.		M	
SimpleInvoice				Simple Invoice class is the root of this class diagram. There is one Mandatory association to the Request for Payment class. There are two associations to the Reference class with role names of order identification (mandatory) and delivery note (optional). This class contains one attribute: - Total amount		M	
			totalAmount	Monetary amount		M	
SimpleInvoiceLineItem				This is a Mandatory class holding the net price (net price per unit of product, service, or commodity) and total line amount (extended line item amount). It has a mandatory association with Invoice Line Item and contains two attributes: - Net price - Total line amount		M	
			netPrice	Monetary amount		M	
			totalLineAmount	Monetary amount		M	
TradeItemIdentification				This external class originates from Trade Item Identification and is mandatory to identify the trade item in the sub line items. The Global Trade Item Number is the recommended primary trade item identification. This class contains no attributes.		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"
xsi:schemaLocation="http://www.ean-ucc.org/schemas/1.3.1/eanucc
../2_XSD_PROXY/RequestForPaymentProxy.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:requestForPayment xsi:type="eanucc:SimpleInvoiceType" creationDate="2004-01-
10T12:00:01" documentStatus="ORIGINAL" contentVersion="1.3.1"
documentStructureVersion="1.3.1" lastUpdateDate="2004-10-01">
    <requestForPaymentIdentification>
        <uniqueCreatorIdentification> OJGROWER-TRANS12345</uniqueCreatorIdentification>
        <contentOwner>
            <gln>0614141000012</gln>
        </contentOwner>
    </requestForPaymentIdentification>
    <buyer>
        <gln>1234567890123</gln>
    </buyer>
    <seller>
        <gln>0614141000012</gln>
    </seller>
    <lineltem xsi:type="eanucc:SimpleInvoiceLineltemType" number="123">
        <tradeItemIdentification>
            <gtin>01234567891234</gtin>
        </tradeItemIdentification>
        <invoicedQuantity>121</invoicedQuantity>
        <allowanceCharge allowanceChargeType="ALLOWANCE_GLOBAL"
allowanceOrChargeType="ALLOWANCE" effectiveDateType="EFFECTIVE_DATE"
sequenceNumber="1" settlementType="BILL_BACK">
            <allowanceChargePriceBracket>
                <bracketIdentifier> TOP</bracketIdentifier>
            </allowanceChargePriceBracket>
            <monetaryAmountOrPercentage>
                <ratePerUnit>
                    <allowanceOrChargeRatePerUnit>1234</allowanceOrChargeRatePerUnit>
                    <amountPerUnit currencyISOCode="USD">123.12</amountPerUnit>
                    <percentagePerUnit>24</percentagePerUnit>
                    <measurementPerUnit unitOfMeasure="LBS">2</measurementPerUnit>
                </ratePerUnit>
            </monetaryAmountOrPercentage>
            <baseAmount>
                <ratePerUnit>
                    <allowanceOrChargeRatePerUnit>98</allowanceOrChargeRatePerUnit>
                    <amountPerUnit currencyISOCode="USD">18.12</amountPerUnit>
                    <percentagePerUnit>54</percentagePerUnit>
                    <measurementPerUnit unitOfMeasure="LBS">7</measurementPerUnit>
                </ratePerUnit>
            </baseAmount>
            <description>
                <description language="EN">
                    <text>Allowance charge description</text>
                </description>
            </description>
        </allowanceCharge>
        <netPrice>
            <amount currencyISOCode="USD">2.00</amount>
        </netPrice>
        <totalLineAmount>
            <amount currencyISOCode="USD">122.00</amount>
        </totalLineAmount>
    </lineltem>

```

```

    <allowanceCharge allowanceChargeType="ALLOWANCE_GLOBAL"
allowanceOrChargeType="ALLOWANCE" effectiveDateType="EFFECTIVE_DATE"
sequenceNumber="1" settlementType="BILL_BACK">
    <allowanceChargePriceBracket>
    <bracketIdentifier>TOP</bracketIdentifier>
    </allowanceChargePriceBracket>
    <monetaryAmountOrPercentage>
    <ratePerUnit>
    <allowanceOrChargeRatePerUnit>1234</allowanceOrChargeRatePerUnit>
    <amountPerUnit currencyISOCode="USD">123.12</amountPerUnit>
    <percentagePerUnit>24</percentagePerUnit>
    <measurementPerUnit unitOfMeasure="LBS">4</measurementPerUnit>
    </ratePerUnit>
    </monetaryAmountOrPercentage>
    <baseAmount>
    <ratePerUnit>
    <allowanceOrChargeRatePerUnit>98</allowanceOrChargeRatePerUnit>
    <amountPerUnit currencyISOCode="USD">18.12</amountPerUnit>
    <percentagePerUnit>54</percentagePerUnit>
    <measurementPerUnit unitOfMeasure="LBS">7</measurementPerUnit>
    </ratePerUnit>
    </baseAmount>
    <description>
    <description language="EN">
    <text>Euro</text>
    </description>
    </description>
    </allowanceCharge>
    <paymentTerms paymentTermsType="BASIC_(NET)"
paymentTermsEvent="ANTICIPATED_DELIVERY_DATE">
    <netPayment>
    <paymentTimePeriod>
    <timePeriodDue timePeriod="DAYS"><value>30</value></timePeriodDue>
    </paymentTimePeriod>
    </netPayment>
    <installmentDue>
    <percentageOfPaymentDue>12</percentageOfPaymentDue>
    <paymentTimePeriod>
    <timePeriodDue timePeriod="DAYS"><value>28</value></timePeriodDue>
    </paymentTimePeriod>
    </installmentDue>
    <discountPayment discountType="100">
    <discountDescription>
    <description language="EN">
    <text>Carrier missed scheduled delivery appointment</text>
    </description>
    </discountDescription>
    <paymentTimePeriod>
    <timePeriodDue timePeriod="DAYS"><value>30</value></timePeriodDue>
    </paymentTimePeriod>
    </discountPayment>
    <proximoCutOffDay>
    <value>23</value>
    </proximoCutOffDay>
    </paymentTerms>
    <orderIdentification number="34">

```

```
<dateTime>2004-06-28T12:13:14</dateTime>
</orderIdentification>
<totalAmount>
  <amount currencyISOCode="USD">122.00</amount>
</totalAmount>
</eanucc:requestForPayment>
</documentCommandOperand>
</eanucc:documentCommand>
</command>
</eanucc:transaction>
</body>
</eanucc:envelope>
```