

## Ariba Network EDI 810 Implementation Guide

### 1 Overview

Ariba Network allows suppliers to send invoices to buying organisations in the form of cXML InvoiceDetailRequest documents.

As a service to suppliers preferring to transact via EDI, Ariba Network accepts the ANSI X12 004010 810 (Invoice) transaction set and translates it to a cXML InvoiceDetailRequest.

Because the 810 implementation ultimately maps to an InvoiceDetailRequest, it must conform to its rules.

On receiving an 810 (documented here), Ariba Network validates the EDI content, returns a 997 to the Supplier, and then converts it to the cXML InvoiceDetailRequest. The final cXML document is internally posted to process the actual invoice.

810 documents must strictly conform to these implementation guidelines. The 810 is implemented using ANSI X12 Version **004010**.

There are two layout templates for invoices: Detailed and Header. A detailed invoice addresses the line items of one purchase order. A header invoice covers many purchase orders without listing specific line items.

There are three types of invoices: Standard, Credit Memo, and Debit Memo. Only the Standard invoice can use the Detailed layout template. Credit and Debit Memos can use only the Header layout template.

Each layout template and invoice type has particular requirements: content that must be present in order to be valid. There are also some content requirements for 810 itself to be satisfied.

Section 5, **Structure of the Invoice**, is intended to assist suppliers to start testing 810 documents with the minimal requirements. It describes the base data content for the invoice and what must be included in an 810 document. This document does not attempt to explain how every possible cXML construct is represented in the 810.

Readers should consult the InvoiceDetail.dtd from the cXML specifications alongside the guidelines for 810 and this document. cXML DTDs and documentation are available at <http://www.cxml.org/>.

### 2 Enveloping

#### 2.1 Syntax

Standard syntax rules of ANSI X12 004010 are required. You should use the normal characters prescribed by the standard for element separator, sub-element separator, and segment terminator. All legal X12 characters can be used. The preferred characters are:

Segment terminator	~ (tilde)
Element separator	* (asterisk)
Sub-element separator	> (right angle)

#### 2.2 Character Encoding

X12 normally uses a subset of 7-bit ASCII. This subset is preferred for reliable passage through value-added networks (VANs), in which data might be translated to EBCDIC. Ariba Network accepts characters beyond 7-bit ASCII and interprets them as ISO 8859-1. Not all extended characters survive VAN passage.

#### 2.3 Interchange and Functional Group Identity

ISA01	Authorization Code Qualifier	00
ISA02	Authorization Code	(blank)
ISA03	Security Code Qualifier	00

ISA04	Security Code	(blank)
ISA05	Sender Id Qualifier	(your qualifier)
ISA06	Sender Identifier	(your identifier)
ISA07	Receiver Id Qualifier	<b>ZZ</b>
ISA08	Receiver Identifier	<b>ARIBAEDI</b>
ISA09	Interchange Date	(YYMMDD)
ISA10	Interchange Time	(HHMM)
ISA11	Control Standards Identifier	<b>U</b>
ISA12	Version	<b>00401</b>
ISA13	Interchange Control Number	(unique control no)
ISA14	Acknowledgment Requested	<b>0</b> (interchanges are not acknowledged - no TA1 returned)
ISA15	Test Indicator <sup>1</sup>	<b>P</b> or <b>T</b>
ISA16	Sub-Element Separator	<b>&gt;</b> (suggested)

The ISA sender qualifier and identifier (ISA05-06) must uniquely identify your Ariba Network Identifier (NetworkId) as a supplier. You can use any identifier you wish, but it must have a unique 1:1 correspondence to your NetworkId. Ariba Network uses a translation table to map your ISA05-06 pair to your NetworkId.

You can use the same ISA qualifier / identifier pair for production and test, or you can use two distinct identifiers.

For ISA07-08, the interchange receiver qualifier / identifier, ISA07 must be ZZ and ISA08 must be ARIBAEDI. The same interchange id is used for both production and test data. ISA15 is used to distinguish production from test.

GS01	Functional Group Identifier	<b>IN</b>
GS02	Application Sender	(your value)
GS03	Application Receiver	Buying Organization's NetworkId
GS04	Functional Group Date	CCYYMMDD
GS05	Functional Group Time	HHMM
GS06	Functional Group Control No	(unique control no)
GS07	Agency	<b>X</b>
GS08	Version	<b>004010</b>

The Application Sender Identifier (GS02) should be your supplier NetworkId in the application sender identifier (GS02), but it is not required. As long as ISA05-06 *uniquely* identifies your Supplier NetworkId, GS02 is ignored.

The Application Receiver Identifier (GS03) must be the Buyer's NetworkId. Never include the -T in GS03 for test accounts.

For example:

```
ISA*00*                *00*                *01*123456789          *ZZ*ARIBAEDI
*030430*1152*U*00401*000001234*0*P*>~
GS*IN*123456789*AN01000000001*20030430*1152*2414*X*004010~
ST*810*24140001~
```

### 3 Functional Acknowledgements: 997

Ariba Network returns a 997 document for each received functional group.

Errors in EDI translation, including non-conformance to this guideline, cause a negative functional acknowledgement.

If you receive a negative FA, then the 810 document was not converted to cXML, and is not expected to appear in your Ariba Network invoice out box.

<sup>1</sup> ISA15 has the final word on whether an interchange is to be processed as test or production.

If you receive a positive FA, Ariba Network has accepted the 810 and can successfully translate it to cXML. The invoice has not yet passed Ariba Network cXML validation or the buying organization's business rule validation on Ariba Network. If the invoice fails either of these steps, then an email notification is returned, advising you of the failure and the reason.

Summary 997 documents are returned with an explicit AK2 group for each acknowledged document within a functional group. Detailed 997 documents (with AK3 and AK4) are not currently supported.

A positive FA sets AK901 (0715) to A. A negative FA sets AK901 to E. The codes are the same at the AK5 level, where AK501 (0717) returns code A or E accordingly.

## 4 Using this Guideline

The Segment list shows Base Status, which is how it is defined in 004010, and User Status, which shows its requirement for Ariba Network. Unused segments are not shown.

The Element list shows Base Attribute and User Attributes in the same context. User Attributes sometimes alter the element size.

The codes defining Segment and Element usage are:

- M** Mandatory
- R** Recommended (not Mandatory, but its use is preferred)
- D** Dependant (Mandatory if certain conditions are true)
- O** Optional
- X** Conditional on ANSI X12 syntax rules

This guideline should be used in conjunction with the following document:

**cXML InvoiceDetail.dtd:** Official definition of the InvoiceDetailRequest document. 810 documents must ultimately render to a valid InvoiceDetailRequest document in order to be processed by Ariba Network.

cXML DTDs and documentation can be downloaded from <http://www.cxml.org/>

## 5 Structure of the Invoice

InvoiceDetailRequest is defined like this:

```
<!ELEMENT InvoiceDetailRequest
  ( InvoiceDetailRequestHeader,
    ( InvoiceDetailOrder+ | InvoiceDetailHeaderOrder+ ),
  InvoiceDetailSummary )>
```

This means that you have a header section, followed by one or more orders OR one or more summary orders, followed by a summary section. Detailed invoices use the InvoiceDetailOrder and Header invoices use the InvoiceDetailHeaderOrder.

Each InvoiceDetailOrder has one or more InvoiceDetailLine elements, so it is in fact three-tiered. Ariba Network implements a two-tiered structure with 810, so only one order can be covered in a detailed invoice.

### 5.1 Dates

Dates and times in cXML must be specified in a full date / time / time-zone format. Whatever date you enter must ultimately render as CCYY-MM-DDTHH:MM:SS±HH:MM.

For example, "2002-08-13T16:19:23-07:00" means August 13, 2002 at 4:19:23pm PDT. In EDI, it would be represented as DTM\*...\*20020813\*161923\*PD~.

In EDI therefore, it is preferable to use the DTM segment with a full date, time, and zone. All of the time zones for data element 0623 are supported, except for code LT, meaning "Local Time".

Whenever the EDI syntax allows for only a date, (such as the invoice date in BIG), a full DTM segment, if available, is implemented to optionally provide the full date/time/zone if desired.

## 5.2 Header Section

The `InvoiceDetailRequestHeader` element mandates only four things: Invoice Number, Invoice Date, Purpose, and Operation.

This is easily done with the lead BIG segment, like this:

```
BIG*20030430*INVSP248904188*20030415*ERP14914***DI*00~
```

Here, INVSP248904188 in BIG02 is the invoice number, 20030430 in BIG01 is the invoice date, the DI in BIG07 says "Debit invoice" which is mapped as purpose="standard", and the trailing 00 in BIG08 is the operation="new".

The order number (ERP14914) and date (20030415) were also provided in this example.

## 5.3 Names and Addresses

Names and addresses at the header level are rendered with the N1 Group 1/070. In `InvoiceDetailRequestHeader`, they fall into two categories depending on their qualifier. Ship-From (ST), Ship-To (ST) and Carrier (CA) go into `InvoiceDetailShipping`. All others go into `InvoicePartner`.

`InvoiceDetailShipping` is optional, but if it is used, then Ship-from and Ship-to are **both** required.

There should be at least one N1 group to identify the invoice sender. The recommended qualifier is II for "Issuer of invoice". If you wish to specify a distinct Remit-to, then you should include qualifier RI.

`InvoicePartner` contacts also support one or more coded identifiers for account identification. This is done with the child REF at 1/110. For convenience, certain name qualifiers will capture the identifier in N103-04 as a shortcut for a certain reference.

If you include a Carrier contact (N1\*CA), then N104 contains a carrier identifier. Remember that if you include N1\*CA, you incur a obligation to include N1\*SF and N1\*ST.

With most N1 groups, the postal address is not required. You should include it with N1\*SF (Ship-from) and N1\*ST (Ship-to). If you do include a postal address, then one Street, the City, and the two-char ISO-3166 country code are all required. If the country code, N404, is US or CA, then N402, the state/province code is also required and must be a valid state or province digraph.

Telephone numbers are stored in cXML separated into their components. In EDI it is simply one string. Therefore, it is essential to write it properly. You should include the country code, preceded with a plus sign, followed by the area or city code, optionally in parenthesis, then the local number. If there is an extension, precede it with a lowercase 'x'. Each component of the phone number should be separated with a dash char. Ten digit numbers without a leading 1 are assumed to be in North America.

For example, the Ariba Network support number is 1-888-89ARIBA. In a PER segment, it should appear as: PER\*CN\*Support\*TE\*+1(888)892-7422~. Or you can render it as PER\*CN\*Support\*TE\*8888927422~.

## 5.4 Detailed Invoices

Looking more closely at the `InvoiceDetail.dtd`, we see this basic structure:

```

InvoiceDetailRequest
  InvoiceDetailRequestHeader
  InvoiceDetailOrder+
    InvoiceDetailOrderInfo
    InvoiceDetailItem+ | InvoiceDetailServiceItem+
  InvoiceDetailSummary

```

This says that: (a) one or more purchase order documents must be referenced in the invoice, (b) each purchase order must have information identifying it, and (c) each purchase order must reference one or more line items.

With the 810 implementation, *Detailed Invoices* address one Purchase Order (PO) and the line items of that PO. The PO itself is referenced at the header level of the 810 and the IT1 *Line Item Group* is used to invoice and reference each line item of the PO. At least one occurrence of the IT1 Group is required.

#### 5.4.1 InvoiceDetailOrder & InvoiceDetailOrderInfo

\* Use BIG (1/020) and REF (1/050) Reference

To reference one purchase order requires `InvoiceDetailOrderInfo`. This element contains a choice of information to reference a particular Purchase Order and/or Master Agreement and optionally a supplier-assigned order tracking number. These requirements are implemented with BIG (1/020), REF (1/050), and DTM (1/140).

A detailed invoice requires the Buyer's purchase order number to be cited in BIG04. The order date should be in BIG03. If you need to cite an order number longer than 22 characters, then REF\*PO can optionally be used to replace BIG04 with up to 30 characters. Likewise, DTM\*004 optionally replaces BIG03 with full date/time/zone.

The invoice date and number must be in BIG01-02. If a longer invoice number or more date detail is required, then REF\*IV and DTM\*003 can optionally be used accordingly.

This table shows the REF and DTM qualifiers to be used for this group:

Reference	1/050 REF Qualifier		1/140 DTM Qualifier	
Buyer's purchase order number	PO	Purchase Order Number	004	Purchase Order (date)
Invoice number	IV	Seller's Invoice Number	003	Invoice (date)
Master agreement identifier	AH	Agreement Number	LEA	Letter of Agreement
Supplier's order number (from O/E)	VN	Vendor Order Number	n/a	(not implemented)

Looking at `InvoiceDetailOrderInfo`, there is a choice of acceptable combinations.

```

<!ELEMENT InvoiceDetailOrderInfo
  ( (OrderReference, (MasterAgreementReference | MasterAgreementIDInfo)?,
    SupplierOrderInfo?) |
    (MasterAgreementReference, OrderIDInfo?, SupplierOrderInfo?) |
    (MasterAgreementIDInfo, OrderIDInfo?, SupplierOrderInfo?) |
    (OrderIDInfo, SupplierOrderInfo?) |
    SupplierOrderInfo )>

```

Elements ending with "Reference" typically require a cXML *payloadID*, which is not currently supported in EDI, so the IDInfo types are actually used in mapping.

So there are three ways to refer to purchase orders, of which one must be used:

- Master Agreement Number and date, and optionally Purchase Order Number and date, and optionally Supplier Order Number. Use this if you have a Master Agreement.
- Purchase Order Number and date, and optionally Supplier Order Number. Use this for Purchase Orders without a Master Agreement.
- Supplier Order Number. (This would be the supplier-assigned Sales Order Number)

Note that in order for a particular Purchase Order in Ariba Network to be invoiced, the Purchase Order Number itself is required.

This example:

```
BIG*20030430*INV0001*20030415*ERP14914***DI*00~
REF*AH*843-2187-5193~
REF*VN*ORD24185~
...
DTM*LEA*20010903*121844*ET~
```

produces:

```
<MasterAgreementIDInfo agreementID="843-2187-5193" agreementDate="2001-09-03T12:18:44-
05:00"/>
<OrderIDInfo orderID="ERP14914" orderDate="2003-04-15T00:00:00-05:00">
<SupplierOrderInfo orderID="ORD24185">
```

Notice that the order date defaulted to midnight using the time zone from the supplier's profile (who happened to specify Eastern).

### 5.4.2 InvoiceDetailItem

➤ Use IT1 Group (Table 2, 2/010)

cXML makes this definition for the Invoice Line Item. The required data is highlighted.

```
<!ELEMENT InvoiceDetailItem
  (UnitOfMeasure, UnitPrice, InvoiceDetailItemReference,
  SubtotalAmount?, Tax?, InvoiceDetailLineSpecialHandling?,
  InvoiceDetailLineShipping?, GrossAmount?,
  InvoiceDetailDiscount?, InvoiceItemModifications?, TotalCharges?,
  TotalAllowances?, TotalAmountWithoutTax?, NetAmount?, Distribution*,
  Comments?, Extrinsic*)>

<!ATTLIST InvoiceDetailItem
  invoiceLineNumber      %uint;          #REQUIRED
  quantity               %r8;            #REQUIRED
>

<!ELEMENT InvoiceDetailItemReference
  (ItemID?, Description?, SerialNumber*,
  (ManufacturerPartID, ManufacturerName)?,
  Country?)>

<!ATTLIST InvoiceDetailItemReference
  lineNumber             %uint;          #REQUIRED
>
```

#### 5.4.2.1 Minimum Requirements

To invoice a Purchase Order, at least one line item is required. To build this group, five things are required:

- (1) **invoiceLineNumber**: 2/120: REF\*FJ... It must be an integer. Each `InvoiceDetailItem` must have a distinct `invoiceLineNumber`.
- (2) **quantity**: 2/010: IT102 (0358) "Quantity Invoiced"
- (3) **UnitOfMeasure**: 2/010: IT103 (0355) "Unit or Basis for Measurement Code". The ANSI code will be translated to an ISO code for Ariba Network.

- (4) **UnitPrice:** 2/010: IT104 (0212) "Unit price".
- (5) **InvoiceDetailItemReference@lineNumber:** 2/010: IT101 (0350) "Assigned Identification". This is the line number from the Purchase Order. It must match PO101 (0350) from the 850 document you are invoicing. Note that this is distinct from the **invoiceLineNumber** (above).

#### 5.4.2.2 IT1: Product/Service Identifiers

The IT1 Product/Service Identifier/Qualifier pairs are used for most of the identifiers in *InvoiceDetailItemReference*. It covers the Supplier Item ID, Manufacturer Part ID, and even the Buyer Part ID. Here is the complete list:

Identifier	0235: Product/Service ID Qualifier	004010 Description
ItemID.SupplierPartID	VP	Vendor's (Seller's) Part Number
ItemID.SupplierPartAuxiliaryID	VS	Vendor's Supplemental Item Number
ManufacturerPartID	MG	Manufacturer's Part Number
ManufacturerName	MF	Manufacturer
SerialNumber	SN	Serial Number
Buyer Part ID (renders to Extrinsic)	BP	Buyer's Part Number

You can use the item types in any order.<sup>2</sup> Only SN is allowed to repeat. With all others, only the last occurrence is captured.

In using these, there are some pairing requirements:

- If *ItemID* is used, then *SupplierPartID* is required. *SupplierPartAuxiliaryID* is optional. Simply put, if you use VS, then VP is required.
- ManufacturerPartID* requires *ManufacturerName*. The two are paired. So if you use MF, then you must use MG and visa-versa.

#### 5.4.2.3 Serial Numbers

Multiple serial numbers are supported. You can use SN with a serial number as many times as you wish. IT1 is a limited resource. Additional serial numbers can be added using REF\*SE (2/120). Any serial numbers specified in IT1 with SN are combined with REF\*SE. You can use either implementation or both. While it is theoretically possible to have an unlimited number of serial numbers, Ariba Network imposes a limit of 1000 per line item.

#### 5.4.2.4 Line Item Example

Two examples are shown: one with only the minimum required information, and the other demonstrating more IT1 usage with Manufacturer Name.

##### 5.4.2.4.1 Minimal Content Example

```
IT1*4*3*RE*146.84~
REF*FJ*1~
```

This produces the following cXML code:

```
<InvoiceDetailItem invoiceLineNumber="1" quantity="3">
  <UnitOfMeasure>RL</UnitOfMeasure>
  <UnitPrice>
```

<sup>2</sup> The product/service id qualifiers are shown in the 810 guideline in specific IT1 locations for consistency and readability. The IT1 segment is scanned and the product/service identifiers are dispersed appropriately.

```

    <Money currency="USD">84.27</Money>
  </UnitPrice>
  <InvoiceDetailItemReference lineNumber="4"/>
</InvoiceDetailItem>

```

The unit of measure code is highlighted to show the translation. The reel & roll units are sometimes a source of confusion when transacting through Ariba Network, which uses the ISO code table. The invoiced unit in this example is **reel**. The correct ANSI code, **RE**, was used in the 810 and translated to the correct ISO code, **RL**.

The currency, USD, if not specified at the line item with CUR (2/020), is defaulted from CUR (1/040) at the header level. If it is not specified at all in 810, then the default currency specified in the Ariba Network Supplier profile is used.

#### 5.4.2.4.2 IT1 Product/Service Identifier Usage Example

```

IT1*4*3*DZ*84.27**SN*4488392813*VP*ABC456*VS*red*MG*RH41-K*MF*Paul's Canopy~
CUR*SE*CAD~
REF*FJ*1~
REF*SE*7382956188~
REF*SE*6286198724~

```

Here, three serial numbers are given. The first one is in IT1 with the other two in REF. You can put all three in REF, or fit them all into IT1 if space permits.

The currency is changed for this line item, to show that it can be changed. This CUR at 2/020 will cause all monetary figures in this line item to be in CAD, even if the rest of the invoice is USD. Specific currency conversion rates applied are not supported. The invoice total(s) must be in a single currency.

This example produces the following cXML code:

```

<InvoiceDetailItem invoiceLineNumber="1" quantity="3">
  <UnitOfMeasure>DZN</UnitOfMeasure>
  <UnitPrice>
    <Money currency="CAD">84.27</Money>
  </UnitPrice>
  <InvoiceDetailItemReference lineNumber="4">
    <ItemID>
      <SupplierPartID>ABC456</SupplierPartID>
      <SupplierPartAuxiliaryID>red</SupplierPartAuxiliaryID>
    </ItemID>
    <SerialNumber>4488392813</SerialNumber>
    <SerialNumber>7382956188</SerialNumber>
    <SerialNumber>6286198724</SerialNumber>
    <ManufacturerPartID>RH41-K</ManufacturerPartID>
    <ManufacturerName>Paul's Canopy</ManufacturerName>
  </InvoiceDetailItemReference>
  <Extrinsic name="Buyer's Part ID">BK4211</Extrinsic>
</InvoiceDetailItem>

```

#### 5.4.3 InvoiceDetailServiceItem

- Use IT1 Group (Table 2, 2/010) with one Product/Service Id qualifier as SH

cXML makes this definition for the Invoice Service Line Item. The required data is in bold.

```

<!ELEMENT InvoiceDetailServiceItem
  ( InvoiceDetailServiceItemReference, SubtotalAmount,
    Period?, (UnitOfMeasure, UnitPrice)?,
    Tax?, GrossAmount?, InvoiceDetailDiscount?, NetAmount?,
    Distribution*, Comments?, Extrinsic*)>

<!ATTLIST InvoiceDetailServiceItem
  invoiceLineNumber      %uint;          #REQUIRED
  quantity               %r8;            #IMPLIED
  referenceDate          %datetime.tz;   #IMPLIED

```



```
>

<!ELEMENT InvoiceDetailServiceItemReference
  (Classification*,
   ItemID?,
   Description?)>

<!--ATTLIST InvoiceDetailServiceItemReference
  lineNumber      %uint;          #IMPLIED
-->
```

#### 5.4.3.1 Minimum Requirements

To invoice a Purchase Order, at least one line item is required. To build this group, five items are required:

- (1) **invoiceLineNumber**: 2/120: REF\*FJ... This must be an integer. Each `InvoiceDetailItem` must have a distinct `invoiceLineNumber`.
- (2) **quantity**: 2/010: IT102 (0358) "Quantity Invoiced"
- (3) **UnitOfMeasure**: 2/010: IT103 (0355) "Unit or Basis for Measurement Code". The ANSI code will be translated to an ISO code for Ariba Network.
- (4) **UnitPrice**: 2/010: IT104 (0212) "Unit price".
- (5) **InvoiceDetailServiceItemReference@lineNumber**: 2/010: IT101 (0350) "Assigned Identification". This is the line number from the Purchase Order. It must match PO101 (0350) from the 850 document you are invoicing. Note that this is distinct from the **invoiceLineNumber** (above).

#### 5.4.3.2 IT1: Product/Service Identifiers

The IT1 Product/Service Identifier/Qualifier pairs are used for most of the identifiers in `InvoiceDetailItemReference`. It covers the Supplier Item ID, Manufacturer Part ID, and the Buyer Part ID. Here is the complete list:

Identifier	0235: Product/Service ID Qualifier	004010 Description
ItemID.SupplierPartID	SH	Service Item Part Number
ItemID.SupplierPartAuxiliaryID	VS	Vendor's Supplemental Item Number
Classification	C3	Classification Id
Buyer Part ID (renders to Extrinsic)	BP	Buyer's Part Number

You can use the item types in any order.<sup>3</sup> Only SN is allowed to repeat. With all others, only the last occurrence is captured.

In using these, you must follow these requirements:

- a) If `ItemID` is used, then `SupplierPartID` is required. `SupplierPartAuxiliaryID` is optional. Simply put, if you use VS, then SH is required.
- b) If line item is a service item, then Product/Service Id qualifiers VP, SN are not allowed.

#### 5.4.3.3 Line Item Example

Two examples are shown: one with only the minimum required information, and the other demonstrating more IT1 usage with Classification.

<sup>3</sup> The product/service id qualifiers are shown in the 810 guideline in specific IT1 locations for consistency and readability. The IT1 segment is scanned and the product/service identifiers are dispersed appropriately.

**5.4.3.3.1 Minimal Content Example**

IT1\*4\*3\*EA\*146.84\*SH\*3465566~  
REF\*FJ\*1~

This produces the following cXML code:

```
<InvoiceDetailServiceItem invoiceLineNumber="1" quantity="3">
  <InvoiceDetailServiceItemReference lineNumber="4">
    <ItemID>
      <SupplierPartID>3465566</SupplierPartID>
    </ItemID>
  </InvoiceDetailServiceItemReference>
  <SubtotalAmount>
    <Money currency="USD">440.52</Money>
  </SubtotalAmount>
  <UnitOfMeasure>EA</UnitOfMeasure>
  <UnitPrice>
    <Money currency="SGD">146.84</Money>
  </UnitPrice>
</InvoiceDetailServiceItem>
```

The currency, USD, if not specified at the line item with CUR (2/020), is defaulted from CUR (1/040) at the header level. If this is not specified at all in 810, then the default currency specified in the Ariba Network Supplier profile is used.

**5.4.3.3.2 Service Item with service item period Example**

IT1\*2\*2\*EA\*86\*\*SH\*V16311\*VS\*RI\*BP\*B19CX9\*C3\*44080845~  
CUR\*SE\*CAD~  
PID\*F\*GEN\*\*\*Oracle Data Base Administrator\*\*\*\*en~  
REF\*FJ\*2~  
DTM\*214\*20061130\*1524\*ET~  
DTM\*150\*20061030\*1524\*ET~  
DTM\*151\*20061130\*1524\*ET~

The currency is changed for this line item, to show that it can be changed. This CUR at 2/020 will cause all monetary figures in this line item to be in CAD, even if the rest of the invoice is USD. Specific currency conversion rates applied are not supported. The invoice total(s) must be in a single currency.

This example produces the following cXML code:

```
<InvoiceDetailServiceItem invoiceLineNumber="2" quantity="2" referenceDate="20061130">
  <InvoiceDetailServiceItemReference lineNumber="2">
    <ItemID>
      <SupplierPartID>V16311</SupplierPartID>
      <SupplierPartAuxiliaryID>RI</SupplierPartAuxiliaryID>
    </ItemID>
    <Description xml:lang="en">Oracle Data Base Administrator</Description>
  </InvoiceDetailServiceItemReference>
  <SubtotalAmount>
    <Money currency="USD">192</Money>
  </SubtotalAmount>
  <Period startDate="20061030" endDate="20061130"></Period>
  <UnitOfMeasure>EA</UnitOfMeasure>
  <UnitPrice>
    <Money currency="SGD">86</Money>
  </UnitPrice>
</InvoiceDetailServiceItem>
```

**5.5 Header Invoices**

Header Invoices reference one whole Purchase Order on each line item of the invoice. The line items of each Purchase Order are not detailed. Standard Invoices can be in header form. Credit Memos and Debit Memos must be in header form.

Header Invoices are identified by NOT specifying order identification at the invoice header level. Specifically, BIG03-04 must be null. Header level REF segments identifying orders or master agreements must not be present.

For Header Invoices, the cXML structure is:

```
InvoiceDetailRequest
  InvoiceDetailRequestHeader
  InvoiceDetailHeaderOrder+
    InvoiceDetailOrderInfo
    InvoiceDetailOrderSummary
  InvoiceDetailSummary
```

### 5.5.1 InvoiceDetailHeaderOrder and InvoiceDetailOrderSummary

➤ Use IT1 Group (Table 2, 2/010)

Each Purchase Order being covered in a Header Invoice requires an occurrence of the IT1 Group at 2/010. Each PO requires InvoiceDetailOrderInfo and InvoiceDetailOrderSummary.

#### 5.5.1.1 InvoiceDetailOrderInfo

➤ Use IT1 (2/010), REF (2/120), DTM (2/150)

The content rules for InvoiceDetailOrderInfo are the same as in the header. Some of the information is stored in the IT1 segment.

The following information is coded in the IT1 segment:

1. PO Total: This is the unit price for the line item, so it is written to IT104. Since IT104 is used, IT102-03 are required, so IT102=1 (quantity) and IT103="ZZ" (unit). IT101 is not used.
2. Purchase Order Number: IT106="PO" and IT107= the purchase order number
3. Vendor Order Number: IT108="VO" and IT109= the vendor order number

As with the Detailed Invoice, the PO and VO qualifiers do not need to be in that exact sequence. They can appear in any order. And depending on how the order is being identified, PO and VO are both optional.

It is important to note that PO and VO are used only for Header Invoices, while SN, VP, VS, MG, MF, CH are used only for Detailed Invoices. They cannot be mixed.

An example of a line item used in a Header Invoice:

```
IT1**ZZ*1*391.14**PO*ERP71965~
REF*FJ*1~
DTM*004*20030415~
```

#### 5.5.1.2 InvoiceDetailOrderSummary

cXML makes this definition for the InvoiceDetailOrderSummary. The required data is bolded.

```
<!ELEMENT InvoiceDetailOrderSummary
  (SubtotalAmount, Tax?,
  InvoiceDetailLineSpecialHandling?, InvoiceDetailLineShipping?,
  GrossAmount?, InvoiceDetailDiscount?, NetAmount?,
  Comments?, Extrinsic*)>

<!--ATTLIST InvoiceDetailOrderSummary
  invoiceLineNumber      %uint;          #REQUIRED
-->
```

This element requires `invoiceLineNumber` and `SubtotalAmount`.

- (1) **invoiceLineNumber**: REF\*FJ (2/120). It must be an integer. Each `InvoiceDetailHeaderOrder` must have a distinct `invoiceLineNumber`.
- (2) **SubtotalAmount**: IT104 (2/010).

### 5.5.1.3 Minimum Content Example

Section 5.4.1 shows examples for using `InvoiceDetailOrderInfo` with its various options. It is shown here with an order number:

```
IT1**1*ZZ*358.82**PO*ORDSP82778~
REF*FJ*1~
```

This produces the following cXML code:

```
<InvoiceDetailHeaderOrder>
  <InvoiceDetailOrderInfo>
    <OrderIDInfo orderID="ORDSP82778"/>
  </InvoiceDetailOrderInfo>
  <InvoiceDetailOrderSummary invoiceLineNumber="1"/>
</InvoiceDetailHeaderOrder>
```

## 5.6 InvoiceDetailSummary

cXML makes this definition for the `InvoiceDetailSummary`. The required data is bolded.

```
<!ELEMENT InvoiceDetailSummary
  (SubtotalAmount?, Tax?, SpecialHandlingAmount?,
  ShippingAmount?, GrossAmount?, InvoiceDetailDiscount?,
  InvoiceHeaderModifications?, TotalCharges?,
  TotalAllowances?, TotalAmountWithoutTax?,
  NetAmount?, DepositAmount?, DueAmount?)>
```

`InvoiceDetailSummary` requires `SubtotalAmount`, `Tax`, and `NetAmount`. The 810 document requires TDS01.

- (1) **SubtotalAmount**: 3/035: AMT, with AMT01="1" (Line Item Total).
- (2) **Tax**: 3/040: SAC, with SAC01 (0248) = "C" and SAC02 (1300) = "H850" (Tax). The Tax element requires both Money and Description. For Money, use SAC05 (Amount). For Description, use SAC15 (0352) "Description". All descriptions on Ariba Network require a language code. It should be specified in SAC16 (0819) "Language Code". (Language is defaulted if SAC16 is not specified.)
- (3) **InvoiceHeaderModifications**: 3/040: SAC with SAC02(1300) corresponding to modifications at header level. Refer to notes section of SAC for the code list.
- (4) **TotalCharges**: 3/035: AMT, with AMT01="GW".
- (5) **TotalAllowances**: 3/035: AMT, with AMT01="EC".
- (6) **TotalAmountWithoutTax**: 3/035: AMT, with AMT01="ZZ".
- (7) **NetAmount**: 3/035: AMT, with AMT01="N" (Net).
- (8) **DueAmount**: 3/035: AMT, with AMT01="BAP" (Total Amount Due). Not technically required for `InvoiceDetailRequest`, but is required by Ariba Network for invoice processing.

## 6 Special Features

### 6.1 REF Segments Support all Qualifiers

The two standalone REF segments, in the header section at 1/050 and line item at 2/120 support all qualifiers. Any qualifier defined in X12 004010 for DE0128 may be used. Those which are listed in this guide have specific mappings to cXML. All others render to Extrinsic segments.

This is a particularly useful feature for customization. For example, a *Repair Part Number* can be sent using qualifier 20.

```
REF*20*6453221~
```

... produces

```
<Extrinsic name="Repair Part Number">6453221</Extrinsic>
```

The `Extrinsic@name` came from the X12 definition. Both REF02 and/or REF03 may be used. Either one is required. If both are used they are simply concatenated.

In addition, REF\*ZZ may be used as a "text extrinsic", in which REF02 maps to the @name attribute and REF03 is the data. For example,

```
REF*ZZ*Apples*Oranges~
```

... produces

```
<Extrinsic name="Apples">Oranges</Extrinsic>
```

This technique is also used to implement the AP Plus feature, in the next section.

The qualifier mapping is also available for the N1 child REF at 1/110. This REF is used to produce an `IdReference` element, and the REF01 qualifier maps to the @domain attribute, and REF02 to the identifier @attribute. Here a cXML style value is returned.

```
REF*94*3355864~
```

... produces

```
<IdReference domain="fileIdentificationNo" identifier="3355864" />
```

The complete list of codes and their actual mappings is provided in Appendix A.

### 6.2 AP Plus

Ariba Processing Plus (AP Plus) is an automated payment service offered by Ariba Network. It charges payment cards (PCards) when suppliers submit invoices. It sends level-three (L3) accounting information to the card processor for use in transaction reports sent to the buying organization. Both trading partners must subscribe to AP Plus before they can use it.

To use this feature in an invoice, two cXML elements must be present:

The `isInformationOnly` attribute of `InvoiceDetailRequest` must be present and set to "yes", and a header level Extrinsic element with its name attribute set to "action:InitiatePayment". This example from the cXML Solutions Guide:

```
<InvoiceDetailRequestHeader
invoiceID="inv777"
purpose="standard"
operation="new"
invoiceDate="2001-12-03"
```

```
isInformationOnly="yes">
...
<Extrinsic name="action:InitiatePayment" />
```

Both of these highlighted elements can be represented from the EDI 810 Invoice by including:

```
1/020 BIG09="NA"
1/050 REF*ZZ*action:InitiatePayment~
```

The above example in 810 form would look like this:

```
BIG*20011203*inv777*20011130*po555***DI*00*NA~
REF*ZZ*action:InitiatePayment~
```

See the cXML Solutions Guide, Chapter 9 “Invoices” / Implementation Hints / AP Plus for more information.

## 7 Frequent Errors

These are some of the most frequent issues experienced by suppliers implementing 810 invoicing. Checking these issues first before calling technical support will help save time.

### 7.1 Overall

- Only segments and values actually listed in this guide are processed. Sending a data segment that is valid for the 810 Invoice, but not described in this guideline will in most cases be ignored.
- The Invoice has two distinct templates. Detail and Header. The requirements are different depending on the template used. Only regular invoices (BIG07='DI') can use the Detail template.
- Debit Memos (BIG07='DR') and Credit Memos (BIG07='CR') can only use the Header Invoice template. BIG03-04 must be null and IT1 has different content requirements.

### 7.2 Header Section

- When referencing a Purchase Order, the PO number is mandatory but the PO date is optional. If the PO date is used, then it must match the PO's date. (It is a frequent error that the PO number is correct and the date is wrong!) Ditto when referencing a Ship Notice.
- Ship-From (N1\*SF) and Ship-To (N1\*ST) Contacts are optional, but they must be used together. And if Carrier (N1\*CA) is used, then Ship-From and Ship-To are both required as well. (Tip: Only N101 and N102 are actually required.)
- N103-04 has a strict validation. Only certain N1 entities support N103-04 and only certain qualifiers may be used.
- If a postal address is used with a contact (N2-N3-N4), then N3 and N4 are both required, and N401 (City) and N404 (Country) are required. If N404 = 'US' or 'CA' then N402 is required. (Tip: If N404 is absent but N402 contains a valid US State or Canadian Province code, then N404 is defaulted accordingly.)

### 7.3 Line Item Section

- IT101 is the Purchase Order line number and is used only with detail invoices. This line number must correspond to ItemOut@lineNumber in an OrderRequest, or the PO101 element if an EDI PO (850) was received. Beware of PO's with line numbers that may not necessarily be ordinal sequential integers.
- The invoice line number is always mandatory and is specified with REF\*FJ.
- SAC\*C\*G830 builds line item shipping and mandates N1\*SF and N1\*ST.
- SAC segments usually require an amount (SAC05) and a description (SAC15).

## 7.4 Summary Section

- Summary tax (SAC\*C\*H850) is mandatory, even if the amount is zero.
- Three AMT segments are required, with qualifiers: '**1**' (Subtotal), '**N**' (Net Amount), '**BAP**' (Due Amount)

## 8 Sample Data

Sample data shows how a complete 810 document should be formatted. All of them are marked as test (ISA15 = 'T'). The examples are all similar and lend themselves to diff type comparisons.

### 8.1 Line Item Detail Invoice with No Tax Details

```
ISA*00*                *00*                *ZZ*ABCMUSICSUPPLY *ZZ*ARIBAEDI
*030910*1059*U*00401*000000001*0*T*>~
GS*IN*ABCMUSIC*AN02000012345*20030910*1059*1*X*004010~
ST*810*0001~
BIG*20030310*DO091003TESTINV01*20030910*DO091003***DI*00~
CUR*SE*USD~
REF*VN*DO091003~
N1*SO*Aaron Copeland~
N2*Aaron Copeland~
N3*123 Symphony Street~
N4*San Francisco*CA*94107*US~
PER*CN*default*EM*aaronc@musicinsurance.com~
PER*CN*work*TE*14151234567*FX*14151112222~
N1*RI*XYZ Bank~
N2*XYZ Bank~
N3*111 5th Avenue~
N4*New York*NY*10007*US~
REF*AP*00000-11111~
REF*RT*123456789~
PER*CN*default*EM*money@xyzbank.com~
PER*CN*work*TE*12121234567~
ITD*52*3*10**10~
ITD*52*3*5**20~
ITD*52*3*0**30~
ITD*05*3*-5**40~
ITD*05*3*-10**50~
DTM*003*20030910*105920*PD~
IT1*1*2*EA*99.99**VP*ID001~
PID*F***Power Cord***EN~
REF*FJ*1~
SAC*N*B840*AB*Buyer assi*19998*Z*100*****ABC123456789*Purchasing*Production Control*EN~
SAC*C*G830***300~
N1*SF*Philadelphia~
N3*555 W. Any Street~
N4*Philadelphia*PA*19002*US~
PER*CN*default*EM*shipping@albestmusicwarehouse.com~
PER*CN*work*TE*14151234567*FX*14151112222~
N1*ST*Music Insurance Co. - San Fran~
N2*Aaron Copeland~
N3*123 Symphony Street~
N4*San Francisco*CA*94107*US~
PER*CN*default*EM*aaronc@musicinsurance.com~
PER*CN*work*TE*14151234567*FX*14151112222~
IT1*2*2*EA*79.99**VP*ID002~
PID*F***Power Cord***EN~
REF*FJ*1~
SAC*N*B840*AB*Buyer assi*15998*Z*100*****ABC123456789*Purchasing*Production Control*EN~
SAC*C*G830***300~
N1*SF*Philadelphia~
N3*555 W. Any Street~
N4*Philadelphia*PA*19002*US~
PER*CN*default*EM*shipping@albestmusicwarehouse.com~
PER*CN*work*TE*14151234567*FX*14151112222~
N1*ST*Music Insurance Co. - San Fran~
N2*Aaron Copeland~
N3*123 Symphony Street~
N4*San Francisco*CA*94107*US~
```



PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 TDS\*36596~  
 AMT\*1\*359.96~  
 AMT\*N\*365.96~  
 AMT\*BAP\*365.96~  
 SAC\*C\*G830\*\*\*600~  
 SAC\*C\*H850\*\*\*0\*\*\*\*\*no tax\*EN~  
 CTT\*2~  
 SE\*64\*0001~  
 GE\*1\*1~  
 IEA\*1\*000000001~

## 8.2 Service Line Item Detail Invoice with No Tax Details

ISA\*00\* \*00\* \*ZZ\*ABCMUSICSUPPLY \*ZZ\*ARIBAEDI  
 \*030910\*1059\*U\*00401\*000000001\*0\*T\*>~  
 GS\*IN\*ABCMUSIC\*AN02000012345\*20030910\*1059\*1\*X\*004010~  
 ST\*810\*0001~  
 BIG\*20030310\*DO091003TESTINV01\*20030910\*DO091003\*\*\*DI\*00~  
 CUR\*SE\*USD~  
 REF\*VN\*DO091003~  
 N1\*SO\*Aaron Copeland~  
 N2\*Aaron Copeland~  
 N3\*123 Symphony Street~  
 N4\*San Francisco\*CA\*94107\*US~  
 PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 N1\*RI\*XYZ Bank~  
 N2\*XYZ Bank~  
 N3\*111 5th Avenue~  
 N4\*New York\*NY\*10007\*US~  
 REF\*AP\*00000-11111~  
 REF\*RT\*123456789~  
 PER\*CN\*default\*EM\*money@xyzbank.com~  
 PER\*CN\*work\*TE\*12121234567~  
 ITD\*52\*3\*10\*\*10~  
 ITD\*52\*3\*5\*\*20~  
 ITD\*52\*3\*0\*\*30~  
 ITD\*05\*3\*-5\*\*40~  
 ITD\*05\*3\*-10\*\*50~  
 DTM\*003\*20030910\*105920\*PD~  
 IT1\*1\*2\*EA\*99.99\*\*SH\*ORA-DBA-53454~  
 PID\*F\*GEN\*\*\*Device for scrubbing graphite marks from bleached wood pulp\*\*\*\*en~  
 REF\*FJ\*2~  
 DTM\*214\*20010826\*1524\*ET~  
 DTM\*150\*20050826\*1524\*ET~  
 DTM\*151\*20060826\*1524\*ET~  
 SAC\*N\*B840\*AB\*Default\*24819\*Z\*1000\*\*\*\*\*DX4\*costcenter\*Office supplier\*en~  
 TDS\*36596~  
 AMT\*1\*359.96~  
 AMT\*N\*365.96~  
 AMT\*BAP\*365.96~  
 SAC\*C\*G830\*\*\*600~  
 SAC\*C\*H850\*\*\*0\*\*\*\*\*no tax\*EN~  
 CTT\*1~  
 SE\*39\*0001~  
 GE\*1\*1~  
 IEA\*1\*000000001~

## 8.3 Line Item Detail Invoice with Tax Details

ISA\*00\* \*00\* \*ZZ\*ABCMUSICSUPPLY \*ZZ\*ARIBAEDI  
 \*030910\*1059\*U\*00401\*000000001\*0\*T\*>~  
 GS\*IN\*ABCMUSIC\*AN02000012345\*20030910\*1059\*1\*X\*004010~

ST\*810\*0001~  
 BIG\*20030310\*DO091003TESTINV01TAX\*20030910\*DO091003\*\*\*DI\*00~  
 CUR\*SE\*USD~  
 REF\*IV\*DO091003~  
 N1\*SO\*Aaron Copeland~  
 N2\*Aaron Copeland~  
 N3\*123 Symphony Street~  
 N4\*San Francisco\*CA\*94107\*US~  
 PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 N1\*RI\*XYZ Bank~  
 N2\*XYZ Bank~  
 N3\*111 5th Avenue~  
 N4\*New York\*NY\*10007\*US~  
 REF\*AP\*00000-11111~  
 REF\*RT\*123456789~  
 PER\*CN\*default\*EM\*money@xyzbank.com~  
 PER\*CN\*work\*TE\*12121234567~  
 ITD\*52\*3\*10\*\*10~  
 ITD\*52\*3\*5\*\*20~  
 ITD\*52\*3\*0\*\*30~  
 ITD\*05\*3\*-5\*\*40~  
 ITD\*05\*3\*-10\*\*50~  
 DTM\*003\*20030910\*105920\*PD~  
 IT1\*1\*2\*EA\*99.99\*\*VP\*ID001~  
 PID\*F\*\*\*Power Cord\*\*\*EN~  
 REF\*FJ\*1~  
 SAC\*N\*B840\*AB\*Buyer assi\*21996\*Z\*100\*\*\*\*\*ABC123456789\*Purchasing\*Production Control\*EN~  
 SAC\*C\*G830\*\*\*300~  
 SAC\*C\*H850\*\*\*1998\*\*\*\*\*total item tax\*EN~  
 TXI\*ST\*15.99\*8\*VD\*CA\*\*\*199.98~  
 TXI\*FD\*3.99\*2\*\*\*\*\*199.98~  
 TXI\*FD\*2.99\*2\*\*\*\*\*199.98~  
 TXI\*HZ\*1.00\*2\*\*\*\*\*199.98\*HWTax~  
 N1\*SF\*Philadelphia~  
 N3\*555 W. Any Street~  
 N4\*Philadelphia\*PA\*19002\*US~  
 PER\*CN\*default\*EM\*shipping@albestmusicwarehouse.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 N1\*ST\*Music Insurance Co. - San Fran~  
 N2\*Aaron Copeland~  
 N3\*123 Symphony Street~  
 N4\*San Francisco\*CA\*94107\*US~  
 PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 IT1\*2\*2\*EA\*79.99\*\*VP\*ID002~  
 PID\*F\*\*\*Power Cord\*\*\*EN~  
 REF\*FJ\*2~  
 SAC\*N\*B840\*AB\*Buyer assi\*17596\*Z\*100\*\*\*\*\*ABC123456789\*Purchasing\*Production Control\*EN~  
 SAC\*C\*G830\*\*\*3~  
 SAC\*C\*H850\*\*\*1598\*\*\*\*\*total item tax\*EN~  
 TXI\*ST\*12.79\*8\*VD\*CA\*\*\*159.98~  
 TXI\*FD\*2.19\*2\*\*\*\*\*159.98~  
 TXI\*HZ\*1.00\*2\*\*\*\*\*159.98\*HWTax~  
 N1\*SF\*Philadelphia~  
 N3\*555 W. Any Street~  
 N4\*Philadelphia\*PA\*19002\*US~  
 PER\*CN\*default\*EM\*shipping@albestmusicwarehouse.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 N1\*ST\*Music Insurance Co. - San Fran~  
 N2\*Aaron Copeland~  
 N3\*123 Symphony Street~  
 N4\*San Francisco\*CA\*94107\*US~  
 PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 TDS\*40192~

AMT\*1\*359.96~  
 AMT\*N\*401.92~  
 AMT\*BAP\*401.92~  
 SAC\*C\*G830\*\*\*600~  
 SAC\*C\*H850\*\*\*3596\*\*\*\*\*total tax\*EN~  
 TXI\*ST\*28.78\*8\*VD\*CA\*\*\*359.96~  
 TXI\*FD\*6.18\*2\*\*\*\*\*359.96~  
 TXI\*HZ\*1.00\*2\*\*\*\*\*359.96\*HWTax~  
 CTT\*2~  
 SE\*75\*0001~  
 GE\*1\*1~  
 IEA\*1\*000000001~

## 8.4 Header Level Invoice with One PO

ISA\*00\* \*00\* \*ZZ\*ABCMUSICSUPPLY \*ZZ\*ARIBAEDI  
 \*030910\*1059\*U\*00401\*000000001\*0\*T\*>~  
 GS\*IN\*ABCMUSIC\*AN02000012345\*20030910\*1059\*1\*X\*004010~  
 ST\*810\*0001~  
 BIG\*20030310\*DO091003TESTHDRINV01\*\*\*\*\*DI\*00~  
 CUR\*SE\*USD~  
 N1\*SO\*Aaron Copeland~  
 N2\*Aaron Copeland~  
 N3\*123 Symphony Street~  
 N4\*San Francisco\*CA\*94107\*US~  
 PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 N1\*RI\*XYZ Bank~  
 N2\*XYZ Bank~  
 N3\*111 5th Avenue~  
 N4\*New York\*NY\*10007\*US~  
 REF\*AP\*00000-11111~  
 REF\*RT\*123456789~  
 PER\*CN\*default\*EM\*money@xyzbank.com~  
 PER\*CN\*work\*TE\*12121234567~  
 DTM\*003\*20030910\*105920\*PD~  
 IT1\*\*1\*ZZ\*359.96\*\*PO\*DO091003~  
 REF\*FJ\*1~  
 SAC\*A\*C310\*\*\*4119\*3\*10~  
 SAC\*C\*G830\*\*\*600~  
 SAC\*C\*H090\*\*\*1000~  
 SAC\*C\*H850\*\*\*3596\*\*\*\*\*tax on order\*EN~  
 N1\*SF\*Philadelphia~  
 N3\*555 W. Any Street~  
 N4\*Philadelphia\*PA\*19002\*US~  
 PER\*CN\*default\*EM\*shipping@albestmusicwarehouse.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 N1\*ST\*Music Insurance Co. - San Fran~  
 N2\*Aaron Copeland~  
 N3\*123 Symphony Street~  
 N4\*San Francisco\*CA\*94107\*US~  
 PER\*CN\*default\*EM\*aaronc@musicinsurance.com~  
 PER\*CN\*work\*TE\*14151234567\*FX\*14151112222~  
 TDS\*41192~  
 AMT\*1\*359.96~  
 AMT\*N\*370.73~  
 AMT\*BAP\*370.73~  
 SAC\*A\*C310\*\*\*4119\*3\*10~  
 SAC\*C\*G830\*\*\*600~  
 SAC\*C\*H090\*\*\*1000~  
 SAC\*C\*H850\*\*\*3596\*\*\*\*\*total tax\*EN~  
 CTT\*1~  
 SE\*45\*0001~  
 GE\*1\*1~  
 IEA\*1\*000000001~

## 8.5 Header Level Invoice with Two POs

```

ISA*00*                *00*                *ZZ*ABCMUSICSUPPLY *ZZ*ARIBAEDI
*030910*1059*U*00401*000000001*0*T*>~
GS*IN*ABCMUSIC*AN02000012345*20030910*1059*1*X*004010~
ST*810*0001~
BIG*20030310*DO091003TESTHDRINV02*****DI*00~
CUR*SE*USD~
N1*SO*Aaron Copeland~
N2*Aaron Copeland~
N3*123 Symphony Street~
N4*San Francisco*CA*94107*US~
PER*CN*default*EM*aaronc@musicinsurance.com~
PER*CN*work*TE*14151234567*FX*14151112222~
N1*RI*XYZ Bank~
N2*XYZ Bank~
N3*111 5th Avenue~
N4*New York*NY*10007*US~
REF*AP*00000-11111~
REF*RT*123456789~
PER*CN*default*EM*money@xyzbank.com~
PER*CN*work*TE*12121234567~
DTM*003*20030910*105920*PD~
IT1**1*ZZ*359.96**PO*DO091003~
REF*FJ*1~
DTM*004*20030910~
SAC*A*C310***4119*3*10~
SAC*C*G830***600~
SAC*C*H090***1000~
SAC*C*H850***3596*****tax on order*EN~
N1*SF*Philadelphia~
N3*555 W. Any Street~
N4*Philadelphia*PA*19002*US~
PER*CN*default*EM*shipping@albestmusicwarehouse.com~
PER*CN*work*TE*14151234567*FX*14151112222~
N1*ST*Music Insurance Co. - San Fran~
N2*Aaron Copeland~
N3*123 Symphony Street~
N4*San Francisco*CA*94107*US~
PER*CN*default*EM*aaronc@musicinsurance.com~
PER*CN*work*TE*14151234567*FX*14151112222~
IT1**1*ZZ*200**PO*DO091004~
REF*FJ*2~
DTM*004*20030910~
SAC*A*C310***1175*3*5~
SAC*C*G830***500~
SAC*C*H090***1000~
SAC*C*H850***2000*****tax on order*EN~
N1*SF*Philadelphia~
N3*555 W. Any Street~
N4*Philadelphia*PA*19002*US~
PER*CN*default*EM*shipping@albestmusicwarehouse.com~
PER*CN*work*TE*14151234567*FX*14151112222~
N1*ST*Music Insurance Co. - San Fran~
N2*Aaron Copeland~
N3*123 Symphony Street~
N4*San Francisco*CA*94107*US~
PER*CN*default*EM*aaronc@musicinsurance.com~
PER*CN*work*TE*14151234567*FX*14151112222~
TDS*64692~
AMT*1*559.96~
AMT*N*582.23~
AMT*BAP*582.23~
SAC*A*C310***6469*3*10~
SAC*C*G830***1100~
SAC*C*H090***2000~

```

SAC\*C\*H850\*\*\*5596\*\*\*\*\*total tax\*EN~  
CTT\*2~  
SE\*64\*0001~  
GE\*1\*1~  
IEA\*1\*000000001~

## 8.6 Credit Memo

ISA\*00\* \*00\* \*ZZ\*ABCMUSICSUPPLY \*ZZ\*ARIBAEDI  
\*030910\*1059\*U\*00401\*000000001\*0\*T\*>~  
GS\*IN\*ABCMUSIC\*AN02000012345\*20030910\*1059\*1\*X\*004010~  
ST\*810\*0001~  
BIG\*20030910\*DO091003TestCMINV01\*\*\*\*\*CR\*00~  
CUR\*SE\*USD~  
DTM\*003\*20030910\*105920\*PD~  
N9\*L1\*en-US~  
MSG\*Item1 - We invoiced you for a qty of 2. Only 1 was shipped.~  
IT1\*\*1\*ZZ\*-99.99\*\*PO\*DO091003\*VO\*DO091003~  
REF\*FJ\*1~  
DTM\*004\*20030910~  
TDS\*-10998~  
AMT\*1\*-99.99~  
AMT\*N\*-109.98~  
AMT\*BAP\*-109.98~  
SAC\*C\*H850\*\*\*-999\*\*\*\*\*total tax\*EN~  
CTT\*1~  
SE\*16\*0001~  
GE\*1\*1~  
IEA\*1\*000000001~

## 9 Technical Support

Ariba Network Support is available to help resolve technical issues with EDI. Suppliers are requested to open cases if they need assistance.

If your case concerns a failed 810, Network Support might ask to see the 997 you received, if it is relevant. (997 does not contain sensitive data, but it does reveal the tracking numbers of the message(s) in question, to help expedite analysis.)

For Ariba Network support contact information, see [http://connect.ariba.com/techsupport\\_contacting.htm?Network](http://connect.ariba.com/techsupport_contacting.htm?Network)

# 810 Invoice

Functional Group ID=**IN**

## Introduction:

This Draft Standard for Trial Use contains the format and establishes the data contents of the Invoice Transaction Set (810) for use within the context of an Electronic Data Interchange (EDI) environment. The transaction set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.

## Heading:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Status</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
24	010	ST	Transaction Set Header	M	M	1		
25	020	BIG	Beginning Segment for Invoice	M	M	1		
28	040	CUR	Currency	O	Rec	1		
30	050	REF	Reference Identification	O		12		
LOOP ID - N1							200	
34	070	N1	Name	O	Rec	1		
36	080	N2	Additional Name Information	O	D	2		
38	090	N3	Address Information	O	D	2		
40	100	N4	Geographic Location	O	D	1		
43	110	REF	Reference Identification	O		12		
45	120	PER	Administrative Communications Contact	O		3		
48	130	ITD	Terms of Sale/Deferred Terms of Sale	O		>1		
50	140	DTM	Date/Time Reference	O		10		
LOOP ID - N9							1	
55	240	N9	Reference Identification	O		1		
58	250	MSG	Message Text	M	M	10		

## Detail:

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Status</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
LOOP ID - IT1							200000	
59	010	IT1	Baseline Item Data (Invoice)	O	Must Use	1		
64	020	CUR	Currency	O		1		
66	050	CTP	Pricing Information	O		25		
LOOP ID - PID							500	
67	060	PID	Product/Item Description	O		1		
69	110	ITD	Terms of Sale/Deferred Terms of Sale	O		2		
71	120	REF	Reference Identification	O	Must Use	>1		
74	150	DTM	Date/Time Reference	O		2		
LOOP ID - SAC							25	
76	180	SAC	Service, Promotion, Allowance, or Charge Information	O		1		
82	190	TXI	Tax Information	O		10		
LOOP ID - N1							3	

90	240	N1	Name	O	1
92	250	N2	Additional Name Information	O	2
93	260	N3	Address Information	O	2
94	270	N4	Geographic Location	O	1
95	280	REF	Reference Identification	O	12
96	290	PER	Administrative Communications Contact	O	3

**Summary:**

<u>Page No.</u>	<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Base Status</u>	<u>User Status</u>	<u>Max.Use</u>	<u>Loop Repeat</u>	<u>Notes and Comments</u>
97	010	TDS	Total Monetary Value Summary	M	M	1		
98	035	AMT	Monetary Amount	O	Must Use	>1		
LOOP ID - SAC							25	
101	040	SAC	Service, Promotion, Allowance, or Charge Information	O	Rec	1		
105	050	TXI	Tax Information	O		10		
112	070	CTT	Transaction Totals	O	Rec	1		n1
113	080	SE	Transaction Set Trailer	M	M	1		

**Transaction Set Notes**

1. Number of line items (CTT01) is the accumulation of the number of IT1 segments. If used, hash total (CTT02) is the sum of the value of quantities invoiced (IT102) for each IT1 segment.



<b>Segment:</b>	<b>ST</b> Transaction Set Header
<b>Position:</b>	010
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To indicate the start of a transaction set and to assign a control number
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	1 The transaction set identifier (ST01) is used by the translation routines of the interchange partners to select the appropriate transaction set definition (e.g., 810 selects the Invoice Transaction Set).
<b>Comments:</b>	
<b>Notes:</b>	Example: ST*810*0001~

## Data Element Summary

<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Base Attributes</b>	<b>User Attributes</b>
ST01	143	Transaction Set Identifier Code Code uniquely identifying a Transaction Set 810 Invoice	M ID 3/3	M
ST02	329	Transaction Set Control Number Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set	M AN 4/9	M

<b>Segment:</b>	<b>BIG</b> Beginning Segment for Invoice
<b>Position:</b>	020
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 BIG01 is the invoice issue date.</li> <li>2 BIG03 is the date assigned by the purchaser to purchase order.</li> <li>3 BIG10 indicates the consolidated invoice number. When BIG07 contains code CI, BIG10 is not used.</li> </ol>
<b>Comments:</b>	1 BIG07 is used only to further define the type of invoice when needed.
<b>Notes:</b>	Example:

```
BIG*20000417*INVSP248904188*20000415*DO364***DI*00~
```

produces...

```
<InvoiceDetailRequest>
  <InvoiceDetailRequestHeader invoiceID="INVSP248904188" purpose="standard"
operation="new" invoiceDate="2000-04-17">
    ...
  <InvoiceDetailOrder>
    <InvoiceDetailOrderInfo>
      <OrderIDInfo orderID="DO364" orderDate="2000-04-15">
```

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>	<u>Date</u>	<u>Attributes</u>	<u>Attributes</u>
BIG01	373	Date	M DT 8/8	M
		Date expressed as CCYYMMDD		
		Date this Invoice was created. The Invoice Date also serves as the base date for payment terms, which use number of days from the invoice date.		
		<InvoiceDetailRequestHeader ... invoiceDate %datetime.tz; #REQUIRED >		
BIG02	76	Invoice Number	M AN 1/22	M
		Identifying number assigned by issuer		
		A supplier-generated identifier for this Invoice. Identical to the Invoice Number which appears at the top of a physical Invoice.		
		<InvoiceDetailRequestHeader invoiceID %string; #REQUIRED ...>		
BIG03	373	Date	O DT 8/8	D
		Date expressed as CCYYMMDD		
		Date assigned by the buyer to the original purchase order. Copied from the 850's BEG05 date element. This is used with a regular invoice referencing a single purchase order and its line items.		
		If a regular invoice referencing a single purchase order and its line items is being built, then BIG04 is required. BIG03 is recommended to clarify the order date. If the order number (BIG04) for the buyer is unique, then BIG03 is not required.		

If a full date/time/zone is preferred, then DTM at 1/140 should be used with qualifier 004. If DTM\*004 is used, then it replaces BIG03.

If a header type invoice is being used, then BIG03 and BIG04 must be left empty.

If the Purchase order number (BIG04) with the given order date (BIG03) is available in the Supplier's Ariba Network account, then BIG03 is mapped to

```
<InvoiceDetailRequest>
...
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
    <OrderReference orderID
      orderDate           %datetime.tz;           #IMPLIED
    <DocumentReference ...>
  >
else

<InvoiceDetailRequest>
...
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
    <OrderIDInfo
      orderDate %datetime.tz; #IMPLIED
    >
```

**BIG04**      **324**      **Purchase Order Number**      **O**    **AN 1/22**    **D**

Identifying number for Purchase Order assigned by the orderer/purchaser  
Identifier assigned by the buyer to the original purchase order. Copied from the 850's BEG03 purchase order number element. This is used with a regular invoice referencing a single purchase order and its line items.

Note that BIG04 is limited to 22 chars. REF at 1/050 may be used with qualifier PO to extend the PO number to 30 chars. If REF\*PO is used, it replaces BIG04.

If the Purchase order number (BIG04) with the given order date (BIG03) is available in the Supplier's Ariba Network account, then BIG04 is mapped to

```
<InvoiceDetailRequest>
...
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
    <OrderReference orderID
      orderDate           %datetime.tz;           #IMPLIED
    <DocumentReference ...>
  >
else

<InvoiceDetailRequest>
...
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
    <OrderIDInfo
      orderDate %datetime.tz; #IMPLIED
    >
```

**BIG07**      **640**      **Transaction Type Code**      **O**    **ID 2/2**    **M**

Code specifying the type of transaction

```
<InvoiceDetailHeaderRequest ...
  purpose (standard | creditMemo | debitMemo) "standard"
```

		...>			
		CN	Credit Invoice		
			= "lineLevelCreditMemo"		
			Line level credit memo		
			In case the 810 is a line level credit memo, Ariba Network will default all the quantities and amounts to negative.		
		CR	Credit Memo		
			= "creditMemo"		
			Credit Memo must use a header type invoice. BIG03-04 must be empty.		
		DI	Debit Invoice		
			= "standard"		
			If Debit Invoice is using Single-Detailed form, then BIG03-04 are both required. If it is using Summary-Header form, then BIG03-04 must be empty.		
		DR	Debit Memo		
			= "debitMemo"		
			Debit Memo must use a header type invoice. BIG03-04 must be empty.		
BIG08	353	Transaction Set Purpose Code		O	ID 2/2 M
		Code identifying purpose of transaction set			
		<InvoiceDetailHeaderRequest ... operation ( "new"   "delete" ) "new" ...>			
		00	Original		
			= "new"		
BIG09	306	Action Code		O	ID 1/2 O
		Code indicating type of action			
		The only allowed value for this element is NA, which maps to the isInformationOnly attribute in <InvoiceDetailRequestHeader>.			
		This element is used for AP Plus in conjunction with REF*ZZ*action:InitiatePayment~(1/050).			
		To use AP Plus, BIG09 = "NA" must be present.			
		<InvoiceDetailHeaderRequest ... informationOnly "yes" #IMPLIED ...>			
		NA	No Action Required		

<b>Segment:</b>	<b>CUR</b> Currency
<b>Position:</b>	040
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Optional (Recommended)
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the currency (dollars, pounds, francs, etc.) used in a transaction
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If CUR08 is present, then CUR07 is required.</li> <li>2 If CUR09 is present, then CUR07 is required.</li> <li>3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.</li> <li>4 If CUR11 is present, then CUR10 is required.</li> <li>5 If CUR12 is present, then CUR10 is required.</li> <li>6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.</li> <li>7 If CUR14 is present, then CUR13 is required.</li> <li>8 If CUR15 is present, then CUR13 is required.</li> <li>9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.</li> <li>10 If CUR17 is present, then CUR16 is required.</li> <li>11 If CUR18 is present, then CUR16 is required.</li> <li>12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.</li> <li>13 If CUR20 is present, then CUR19 is required.</li> <li>14 If CUR21 is present, then CUR19 is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	1 See Figures Appendix for examples detailing the use of the CUR segment.
<b>Usage Notes:</b>	Recommended
<b>Notes:</b>	Example: CUR*SE*USD~

Serves as the default currency for all monetary figures in the invoice.

ISO Currency codes can be found here:

<http://www.unece.org/trade/rec/rec09en.htm>

CUR at this level is recommended to specify the currency default for all monetary figures on the invoice. It also avoids legal discrepancy to have your amounts properly qualified.

In cXML, all monetary amounts require a currency qualifier, so it cannot be left as ambiguous. The default used is the default transaction currency in the SUPPLIER'S profile on Ariba Network.

It is not mandatory here because many trading partners have a pre-agreed contract to conduct transactions with the assumption of their home currency.

It is still recommended that you explicitly specify the currency. If you do not, then the profile default will be used.

```
<Total>
  <Money>
    currency %isoCurrencyCode; #REQUIRED
```

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>		<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
CUR01	98	Entity Identifier Code	M ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual		
		BY	Buying Party (Purchaser)	
		SE	Selling Party	

<b>CUR02</b>	<b>100</b>	<b>Currency Code</b>	<b>M</b>	<b>ID 3/3</b>	<b>M</b>
Code (Standard ISO) for country in whose currency the charges are specified					

<b>Segment:</b>	<b>REF</b> <b>Reference Identification</b>
<b>Position:</b>	050
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of REF02 or REF03 is required.</li> <li>2 If either C04003 or C04004 is present, then the other is required.</li> <li>3 If either C04005 or C04006 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 REF04 contains data relating to the value cited in REF02.</li> </ol>
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Header level References are collated with dates (DTM 1/140) and applied to the various parts of the invoice. Their application and alignment in the <InvoiceDetailRequest> depends on the REF01 qualifier value.

Example:

```
REF*AH*AGR31429~
REF*MA*843-2187-5193~
REF*VN*ORD24185~
```

Any valid X12 REF qualifiers may be used here. Seven qualifiers, AH, IL, IV, MA, PO, VN, and ZZ are mapped for specific use. All others are allowed and map to Extrinsic elements. The qualifier (REF01) is used to incur the @name attribute and REF02 and REF03 are used to form the data. See section 6.1 on REF segments.

Example:

```
REF*2J*1503~
```

produces...

```
<Extrinsic name="Floor Number">1503</Extrinsic>
```

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
REF01	128	<b>Reference Identification Qualifier</b>	<b>M ID 2/3</b>	<b>M</b>
		Code qualifying the Reference Identification		
		AH  I5	Agreement Number  Invoice Identification	If a Master Agreement is to be cited under <InvoiceDetailOrder>, then the agreement number goes in REF02, and REF03 is unused. This is used in conjunction with DTM @1/140, with DTM01="LEA".  <pre>&lt;InvoiceDetailRequest&gt;   &lt;InvoiceDetailOrder&gt;     &lt;InvoiceDetailOrderInfo&gt;       &lt;MasterAgreementIDInfo agreementID=REF02&gt;</pre> Example: REF*I5*INV1234567~  It can be used only with the line level credit memo.

IL

Every line level credit memo needs to have an invoice reference. This is used only for referring to an invoice. This forms the DocumentReference and InvoiceIDInfo element in the InvoiceDetailRequestHeader. Inclusion of the referring invoice date is recommended. Use with DTM+003.

Internal Order Number

Example: REF\*IL\*1234567~

Used only for Ariba Network internal identification of a purchase order. Suppliers should only return REF\*IL if it is present in the 850. Otherwise do not map it.

If used, REF02 contains a numeric purchase order identifier assigned by Ariba Network. REF03 is ignored.

This information is not visible to the Buyer, and is reserved only for internal EDI processing.

IV

Seller's Invoice Number

If supplier needs to specify an invoice number longer than 22 chars, REF\*IV can be used to convey up to 30 chars in REF02. If present, REF02 takes priority over the invoice number found in BIG02. REF03 is ignored.

This can be used in combination with DTM @1/140, where DTM01="003", to provide the full date, time, and zone for the invoice time.

```
<InvoiceDetailRequestHeader
  invoiceID %string; #REQUIRED
  = REF02, replacing BIG02
...>
```

MA

Ship Notice/Manifest Number

Shipment Id of an earlier Advance Ship Notice (ASN). This would be BSN02 (DE0396) "Shipment Identifier" from an 856 previously sent.

If you are using this, then it is recommended to include a DTM @1/140, with DTM01="111" Manifest/Ship Notice Date which would match its counterpart in BSN03 (date) and BSN04 (time) from the 856.

Example:

(1/050) REF\*MA\*843-2187-5193~  
(1/140) DTM\*111\*20010903\*121844~

produces...

```
<InvoiceDetailRequestHeader>
<InvoiceDetailShipping>
<DocumentReference
  payloadID of ASN
  with shipmentID="843-2187-5193"
  and noticeDate="2001-09-03T12:18:44"
>
```

Mapping target:



PO

```
<InvoiceDetailRequestHeader>
  <InvoiceDetailShipping>
    <DocumentReference>
```

Purchase Order Number

Provided to support order numbers longer than 22 chars. There have been cases where buyers have sent purchase orders where the order number was longer than 22 chars and thus had problems in EDI order routing.

To address the above stated problem, the 850 document for Ariba EDI version 1.2 will implement REF\*PO to represent order numbers up to 30 chars.

If REF\*PO is present, then REF02 overrides the order number found in BIG04. REF03 is ignored.

This can be used in combination with DTM @1/140, where DTM01="004".

```
<InvoiceDetailRequest>
  ...
  <InvoiceDetailOrder>
    <InvoiceDetailOrderInfo>
      <OrderIDInfo
        orderDate %datetime.tz; #IMPLIED = REF02
      >
```

VN

Vendor Order Number

This is the supplier's order number. Compare to BAK08 in the 855. REF03 is unused.

```
<InvoiceDetailRequest>
  <InvoiceDetailOrder>
    <InvoiceDetailOrderInfo>
      <SupplierOrderInfo orderID=REF02>
```

YD

Buyer Identification

This is the Buyer's SystemID number.

Example: REF\*YD\*ORACLE~

```
<Header>
  ....
  <To>
    <Credential domain="SystemID">
      <Identity>REF02</Identity>
    ....
  </Header>
```

ZZ

Mutually Defined

Text extrinsics with a supplier-defined name in REF02 and data in REF03. Note that this data cannot be electronically processed, unless your customer is programatically aware of the name used in REF02.

Both REF02 and REF03 are required.

Example:

REF\*ZZ\*Employee ID\*ABC1235~

produces...

```
<Extrinsic name="Employee ID">ABC12345</Extrinsic>
```

```
<InvoiceDetailRequest>
  <InvoiceDetailRequestHeader>
    <Extrinsic name=REF02>REF03</Extrinsic>
```

REF02	127	Reference Identification	X	AN 1/30	O
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
REF03	352	Description	X	AN 1/80	O
		A free-form description to clarify the related data elements and their content			

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	070
<b>Loop:</b>	N1 Optional (Recommended)
<b>Level:</b>	Heading
<b>Usage:</b>	Optional (Recommended)
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<b>1</b> At least one of N102 or N103 is required. <b>2</b> If either N103 or N104 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party. <b>2</b> N105 and N106 further define the type of entity in N101.
<b>Usage Notes:</b>	Recommended
<b>Notes:</b>	InvoiceDetailRequest divides header level invoice contacts into two categories: InvoicePartner and InvoiceDetailShipping. Entities SF (Ship From), ST (Ship To), and CA (Carrier) are captured by <InvoiceDetailShipping>. All others are captured by <InvoicePartner>.  The <InvoicePartner> section is technically optional, but strongly recommended if payment of the invoice is desired. You should include entity codes BT (Bill To), RI (Remit To), and II (Issuer of Invoice).  If <InvoiceDetailShipping> is being used, then entity codes SF (Ship From) and ST (Ship To) are required. CA (Carrier) builds the (CarrierIdentifier+, ShipmentIdentifier) optional particle.  The nested REF segment @1/110 is implemented to map to the nested <IdReference> element in the <InvoicePartner> structure. It also carries the <ShipmentIdentifier> when N101="CA".  Certain N1 entities for <InvoicePartner> capture the N103/N104 identifier pair to form an appropriate <IdReference>. See notes under those entities for N101.  The <PostalAddress> structure is built from segments N2, N3, and N4. <PostalAddress> is optional in itself. If used, then at least one N3 is required, along with N401 and N404. If N404="US" or "CA", then N402 is required.  This section of N1 also allows for detailed contact information. Aside from the codes stated above, which are needed to build a correct invoice, there is no reason to copy any of the other contact information from the purchase order, unless the supplier wishes to send it. This should represent supplier related contact information for the buyer's reference.  Mapping target:  <InvoicePartner> or <InvoiceDetailShipping> <Contact>

Data Element Summary				
Ref.	Data	Name	Base	User
Des.	Element		Attributes	Attributes
N101	98	Entity Identifier Code	M ID 2/3	M
Code identifying an organizational entity, a physical location, property or an individual				
7X Party Represented				

BT

```
<InvoicePartner>
  <Contact role="taxRepresentative">
```

Bill-to-Party

Represents the Buyer's Accounts Payable Department - the main recipient of an invoice.

If N103="91", then N104 is captured as the Supplier-assigned customer id for the buyer, forming <IdReference domain="accountReceivableID">.

```
<InvoicePartner>
  <Contact role="billTo">
    ...
    <IdReference
domain="accountReceivableID">N104, where
N103="91"</IdReference>
```

CA

Carrier

Identifies the carrier commissioned for the shipment. Its use is optional. The N103/04 pair is recommended, but not mandatory.

If N103="1", "2", or "4", then N104 is captured as a <CarrierIdentifier>.

If REF @1/110 is present with REF01="CN", then REF02 is captured to form <ShipmentIdentifier>.

If N103 is used, then REF01="CN" is required.  
It is permissible to use REF01="CN" without the N103/04 pair.

N1\*CA is the only contact that is allowed to contain a REF\*CN.

If N1\*CA is used, then N1\*SF and N1\*ST are both required.

```
<InvoiceDetailShipping>
  <Contact role="carrierCorporate">
    <Name>N102</Name>
    ...
  </Contact>
  <CarrierIdentifier
domain="companyName">N102</CarrierIdentifier>
  <CarrierIdentifier domain=N103
(translated)>N104</CarrierIdentifier>
  <ShipmentIdentifier>REF02, where
REF01="CN"</ShipmentIdentifier>
  ...
</InvoiceDetailShipping>
```

FR

Message From

```
<InvoicePartner>
  <Contact role="from">
    ...
```

II

Issuer of Invoice

Suppliers should use "II" if the Issuer of Invoice is different from their corporate office.

If N103="92", then N104 is captured as the Buyer-assigned vendor id for the supplier, forming <IdReference domain="accountPayableID">.

```
<InvoicePartner>
```

			<pre>         &lt;Contact role="issuerOfInvoice"&gt;             ...             &lt;IdReference domain="accountPayableID"&gt;N104, if             N103="92"&lt;/IdReference&gt; </pre>
	RI	Remit To	<p>Represents where the Buyer is expected to send the remittance.</p> <p>If N103="92", then N104 is captured as the addressID of the remitTo, forming &lt;Contact role="remitTo" addressID=" ...."&gt;</p> <p>You can also include an REF*RT and REF*PY identifier for bank remittance, if desired.</p> <pre> &lt;InvoicePartner&gt;     &lt;Contact role="remitTo" addressID=".."&gt; </pre>
	SF	Ship From	<p>N1*Sf and N1*ST are used together to form InvoiceDetailShipping.</p> <p>If N1*Sf is used, then N1*ST is required.</p> <p>If N103="92", then N104 is captured as the addressID of the ShipFrom, forming &lt;Contact role="shipFrom" addressID=" ...."&gt;</p>
	SO	Sold To If Different From Bill To	<pre> &lt;InvoicePartner&gt;     &lt;Contact role="soldTo"&gt; </pre>
	ST	Ship To	<p>N1*ST and N1*Sf are used together to form InvoiceDetailShipping.</p> <p>If N1*ST is used, then N1*Sf is required.</p> <p>If N103="92", then N104 is captured as the addressID of the ShipTo, forming &lt;Contact role="shipTo" addressID=" ...."&gt;</p>
<b>N102</b>	<b>93</b>	<b>Name</b>	<b>X AN 1/60 M</b>
		Free-form name	
		Note that N102 Name is required.	
		<pre> &lt;Contact&gt;     &lt;Name&gt; </pre>	
<b>N103</b>	<b>66</b>	<b>Identification Code Qualifier</b>	<b>X ID 1/2 O</b>
		Code designating the system/method of code structure used for Identification Code (67)	
		Certain entities capture an identification code if it is present. Qualifiers 1, 2, and 4 are used only with N101="CA" (Carrier), to form the <CarrierIdentifier>. 91 and 92 are used selectively for other <InvoicePartner> class entities.	
		1 D-U-N-S Number, Dun & Bradstreet	
		2 Standard Carrier Alpha Code (SCAC)	
		4 International Air Transport Association (IATA)	
		91 Assigned by Seller or Seller's Agent	
		92 Assigned by Buyer or Buyer's Agent	
<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X AN 2/80 O</b>
		Code identifying a party or other code	

<b>Segment:</b>	<b>N2 Additional Name Information</b>
<b>Position:</b>	080
<b>Loop:</b>	N1 Optional (Recommended)
<b>Level:</b>	Heading
<b>Usage:</b>	Optional (Dependent)
<b>Max Use:</b>	2
<b>Purpose:</b>	To specify additional names or those longer than 35 characters in length
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	
<b>Comments:</b>	
<b>Usage Notes:</b>	Dependant
<b>Notes:</b>	<p>Each DE0093 produces one &lt;DeliverTo&gt; in a &lt;PostalAddress&gt;. They are translated in the sequence: N201, N202, N201, N202. A maximum of four &lt;DeliverTo&gt; elements can be generated.</p> <p>Within a &lt;PostalAddress&gt;, &lt;DeliverTo&gt; is supposed to represent specific recipient name(s) of a package or envelope. This can also include intra-office routing information, such as a department, a floor, office, or cube number.</p> <p>Use of &lt;DeliverTo&gt; is entirely optional.</p> <pre>&lt;Contact&gt;   &lt;PostalAddress&gt;     &lt;DeliverTo&gt;</pre>

Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
N201	93	Name	M AN 1/60	M
		Free-form name		
N202	93	Name	O AN 1/60	O
		Free-form name		

**Segment:** **N3 Address Information**  
**Position:** 090  
**Loop:** N1 Optional (Recommended)  
**Level:** Heading  
**Usage:** Optional (Dependent)  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Usage Notes:**  
**Notes:**

Dependant

Each DE0166 produces one <Street> in a <PostalAddress>. They are translated in the sequence: N301, N302, N301, N302. A maximum of four <Street> elements can be generated.

Within a <PostalAddress>, <Street> is supposed to be used by the postal service or courier. It should include an address to the resolution of a building or an office suite.

A recommendation is to use <Street> as far as outside carriers would deliver it, and then use <DeliverTo> for the internal delivery.

If you are building a <PostalAddress> then at least one <Street> is required.

```
<Contact>
  <PostalAddress>
    <Street>
```

Data Element Summary				
Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
N301	166	Address Information	M AN 1/55	M
		Address information		
N302	166	Address Information	O AN 1/55	O
		Address information		

<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	100
<b>Loop:</b>	N1 Optional (Recommended)
<b>Level:</b>	Heading
<b>Usage:</b>	Optional (Dependent)
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	1 If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. 2 N402 is required only if city name (N401) is in the U.S. or Canada.
<b>Usage Notes:</b>	Dependant
<b>Notes:</b>	If you are building a <PostalAddress> then <City> and <Country> are required, hence N4 is required.

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
N401	19	City Name	O AN 2/30	M
		Free-form text for city name		
		<Contact> <PostalAddress> <City>		
N402	156	State or Province Code	O ID 2/2	O
		Code (Standard State/Province) as defined by appropriate government agency		
		For addresses in the United States or Canada, use the two letter digraph recognized by the United States Postal Service or Canada Post.		
		Official State and Territory codes are published by the US Postal Service here: <a href="http://www.usps.gov/ncsc/lookups/abbr_state.txt">http://www.usps.gov/ncsc/lookups/abbr_state.txt</a>		
		All codes for US and Canada are listed here for convenience.		
		Ariba Network can fail a document if N402 and N404 contradict.		
		<Contact> <PostalAddress> <State>		
		AB Alberta		
		AK Alaska		
		AL Alabama		
		AR Arkansas		
		AS American Samoa		
		AZ Arizona		
		BC British Columbia		
		CA California		
		CO Colorado		
		CT Connecticut		
		DC District of Columbia		
		DE Delaware		
		FL Florida		
		FM Federated States of Micronesia		
		GA Georgia		



GU	Guam
HI	Hawaii
IA	Iowa
ID	Idaho
IL	Illinois
IN	Indiana
KS	Kansas
KY	Kentucky
LA	Louisiana
MA	Massachusetts
MB	Manitoba
MD	Maryland
ME	Maine
MH	Marshall Islands
MI	Michigan
MN	Minnesota
MO	Missouri
MP	Northern Mariana Islands
MS	Mississippi
MT	Montana
NB	New Brunswick
NC	North Carolina
ND	North Dakota
NE	Nebraska
NF	Newfoundland
NH	New Hampshire
NJ	New Jersey
NM	New Mexico
NS	Nova Scotia
NT	Northwest Territories
NU	Nunavut
NV	Nevada
NY	New York
OH	Ohio
OK	Oklahoma
ON	Ontario
OR	Oregon
PA	Pennsylvania
PE	Prince Edward Island
PR	Puerto Rico
PW	Palau
QC	Quebec
RI	Rhode Island
SC	South Carolina
SD	South Dakota
SK	Saskatchewan
TN	Tennessee
TX	Texas
UT	Utah

VA	Virginia
VI	Virgin Islands
VT	Vermont
WA	Washington
WI	Wisconsin
WV	West Virginia
WY	Wyoming
YT	Yukon

N403	116	Postal Code	O	ID 3/15	O
Code defining international postal zone code excluding punctuation and blanks (zip code for United States)					
Zip codes will be either five or nine digits with no separator. Canadian postal codes must be formatted A9A9A9, with no separator.					
Ariba Network may validate a Zip/Postal code to correspond to the State or Province code in N402, if N404="US" or "CA", and cause the invoice to fail if they disagree.					
<Contact> <PostalAddress> <PostalCode>					
N404	26	Country Code	O	ID 2/3	M ID 2/2
Code identifying the country					
Country code is ISO-3166 compliant, and must be a two char digraph. You can see a list here along with their respective currency codes:					
<a href="http://www.unece.org/trade/rec/rec09en.htm">http://www.unece.org/trade/rec/rec09en.htm</a>					
If N404 is "US" or "CA", then N402 is required.					
<Contact> <PostalAddress> <Country> isoCountryCode %isoCountryCode; #REQUIRED					

<b>Segment:</b>	<b>REF</b> <b>Reference Identification</b>
<b>Position:</b>	110
<b>Loop:</b>	N1 Optional (Recommended)
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Only the <InvoicePartner> class contacts have an <IdReference> to map to. If you use a REF with N101="SF" or "ST", then it will be ignored. N101="CA" makes special use of REF01="CN".

All reference identifiers are optional, and most all can be used. Care should be taken to avoid ambiguity and duplication. Remember that certain N1 entities have the ability to capture the N104 identifier, if used, and create an <IdReference>.

The special cases are:  
RT (Payee's financial inst) - recommended for N1\*RI (Remit To), but allowed anywhere.  
PY (Payee's bank acct) - recommended for N1\*RI (Remit To), but allowed anywhere.  
CN (Carrier's Reference Number) - used only with N1\*CA. A compliance error occurs if it is misused.

As with REF (1/050), any valid X12 qualifier can be used, but for an IdReference, not an Extrinsic. Those listed here have special meaning to the map. All others map a cXML style code representing the X12 definition to the @domain attribute.

For example, REF\*9X\*1234567~ produces this:

```
<IdReference domain="accountCategory" identifier="1234567" />
```

Note that REF\*ZZ does not produce a text Extrinsic, as it does at 1/050, since there is no Extrinsic element at this level.

REF\*ZZ\*My Number~ produces this:

```
<IdReference domain="mutuallyDefined" identifier="My Number" />
```

```
<InvoicePartner>  
  <IdReference>
```

or

```
<InvoiceDetailShipping>  
  <ShipmentIdentifier>
```

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
REF01	128	<b>Reference Identification Qualifier</b>	<b>M</b> <b>ID 2/3</b>	<b>M</b>
		Code qualifying the Reference Identification		
		12	Billing Account	
			Account number under which billing is rendered	

	Buyer-assigned vendor ID.
	If N101="II" and N103="92", then an equivalent <IdReference> is built from N104.
	<IdReference domain="accountPayableID"> REF02
4G	Provincial Tax Identification
	<IdReference domain="provincialTaxID"> REF02
AP	Accounts Receivable Number
	Supplier-assigned customer ID.
	If N101="BT" and N103="91", then an equivalent <IdReference> is built from N104.
	<IdReference domain="accountReceivableID"> REF02
BAA	Franchise Tax Account Number
	<IdReference domain="SupplierTaxID"> This can be used only with N1*RI
BAD	State Tax Identification Number
	<IdReference domain="stateTaxID">
CN	Carrier's Reference Number (PRO/Invoice)
	Used only with N101="CA" (Carrier). This is the shipment identifier issued by the carrier.
	<InvoiceDetailShipping> ... <ShippingIdentifier>REF02</ShippingIdentifier>
GT	Goods and Service Tax Registration Number
	<IdReference domain="gstTaxID"> REF02
PY	Payee's Financial Institution Account Number for Check, Draft or Wire Payments; Receiving Company Account Number for ACH Transfer
	Recommended for use with N101="RI" (Remit To). Can be combined with REF01="RT".
	<IdReference domain="accountID"> REF02
RT	Payee's Financial Institution Transit Routing Number for Check, Draft or Wire Payments. Receiving Depository Financial Institution Transit Routing Number for ACH Transfers
	Recommended for use with N101="RI" (Remit To). Can be combined with REF01="PY".
	<IdReference domain="bankRoutingID"> REF02
TJ	Federal Taxpayer's Identification Number
	<IdReference domain="federalTaxID">
TX	Tax Exempt Number
	General tax exemption number.
	<IdReference domain="taxExemptionID"> REF02
VX	Value-Added Tax Registration Number (Europe)
	<IdReference domain="vatID"> REF02

REF02	127	<b>Reference Identification</b>	X	AN 1/30	M
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
REF03	352	<b>Description</b>	X	AN 1/80	O
		A free-form description to clarify the related data elements and their content			
		Description is entirely optional, but is captured. There is no language code available, and the xml:lang attribute is required, so it will be defaulted.			
		<pre>&lt;IdReference domain=...&gt;   &lt;Description xml:lang=(defaulted)&gt;     REF03</pre>			

<b>Segment:</b>	<b>PER Administrative Communications Contact</b>
<b>Position:</b>	120
<b>Loop:</b>	N1 Optional (Recommended)
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	3
<b>Purpose:</b>	To identify a person or office to whom administrative communications should be directed
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If either PER03 or PER04 is present, then the other is required.</li> <li>2 If either PER05 or PER06 is present, then the other is required.</li> <li>3 If either PER07 or PER08 is present, then the other is required.</li> </ol>

**Semantic Notes:**

**Comments:**

**Usage Notes:**

**Notes:**

Used/Optional

Example:

```

PER*CN*Help Desk*EM*helpdesk@thesupplier.org*TE*1-888-555-4321~
PER*CN*Billing Inquiries*TE*1 (800) 5551234 x7890*EM*billing@thesupplier.org~
produces...

<Email name="Help Desk">helpdesk@thesupplier.org</Email>
<Email name="Billing Inquiries">billing@thesupplier.org</Email>
<Phone name="Help Desk">
  <TelephoneNumber>
    <CountryCode isoCountryCode="US">1</CountryCode>
    <AreaOrCityCode>888</AreaOrCityCode>
    <Number>555-4321</Number>
  </TelephoneNumber>
</Phone>
<Phone name="Billing Inquiries">
  <TelephoneNumber>
    <CountryCode isoCountryCode="US">1</CountryCode>
    <AreaOrCityCode>800</AreaOrCityCode>
    <Number>5551234</Number>
    <Extension>7890</Extension>
  </TelephoneNumber>
</Phone>

```

Some important things need to be noted from the above example:

1. PER is a limited resource, allowing only 3 iterations, with 3 communications contacts in each one. PER sorts by name then type. cXML sorts by type and then name, so they get rearranged. A maximum of 9 communications contacts are possible. They will all be collected and sorted out.
2. Telephone numbers have to be intelligently broken. The <TelephoneNumber> structure imposed by cXML is mandatory. Therefore, it is imperative that phone and fax numbers be correctly written, or else the break algorithm will probably misinterpret them.

Here are some *\*very important\** recommendations in writing out phone numbers for correct rendering:

- (a) Always start with the correct country code. NANP (North American Numbering Plan) numbers always begin with '1'. The break algorithm is tolerant to assume that ten digits not starting with 1 or 0 is in NANP.
- (b) If you dial 9 for an outside line, do not include it here. (Remember that country code

91 is India.)

(c) A leading + (plus) sign is allowed.

(d) Separator characters, such as spaces or dashes, or brackets around the area code have influence on the break algorithm. Separators are not required, (you can send raw digits), but they do help to mark off the different sections.

(e) An 'x' preceding an extension has the effect of segregating the trailing text as an extension.

(f) isoCountryCode resolution is done from the leading telephone country code. If it is 1 for NANP, then the following rules are used:

- i) If the AreaOrCityCode is known, then imply the country from that.
- ii) If N404 is present, then use N404.
- iii) Use the supplier default country code in Ariba Network.
- iv) Default "US" if still indeterminate.

```
<(Email | Phone | Fax | URL) name=PER02>
DE0364
```

```
<Email> if DE0365="EM", <Phone> if DE0365="TE", <Fax> if
DE0365="FX", <URL> if DE0365="UR"
```

#### Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
PER01	366	<b>Contact Function Code</b>	M ID 2/2	M
		Code identifying the major duty or responsibility of the person or group named		
		CN General Contact		
PER02	93	<b>Name</b>	O AN 1/60	O
		Free-form name		
PER03	365	<b>Communication Number Qualifier</b>	X ID 2/2	O
		Code identifying the type of communication number		
		EM Electronic Mail		
		FX Facsimile		
		TE Telephone		
		UR Uniform Resource Locator (URL)		
PER04	364	<b>Communication Number</b>	X AN 1/80	O
		Complete communications number including country or area code when applicable		
PER05	365	<b>Communication Number Qualifier</b>	X ID 2/2	O
		Code identifying the type of communication number		
		EM Electronic Mail		
		FX Facsimile		
		TE Telephone		
		UR Uniform Resource Locator (URL)		
PER06	364	<b>Communication Number</b>	X AN 1/80	O
		Complete communications number including country or area code when applicable		
PER07	365	<b>Communication Number Qualifier</b>	X ID 2/2	O
		Code identifying the type of communication number		
		EM Electronic Mail		
		FX Facsimile		

		TE	Telephone		
		UR	Uniform Resource Locator (URL)		
<b>PER08</b>	<b>364</b>	<b>Communication Number</b>		<b>X AN 1/80 O</b>	
		Complete communications number including country or area code when applicable			



<b>Segment:</b>	<b>ITD</b> Terms of Sale/Deferred Terms of Sale
<b>Position:</b>	130
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify terms of sale
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.</li> <li>2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.</li> <li>3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.</li> </ol>
<b>Semantic Notes:</b>	1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
<b>Comments:</b>	1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.

**Usage Notes:** Used/Optional

**Notes:** Ariba Invoicing currently supports payment terms only by the number of days from the invoice date (BIG01), and a discount and/or premium.

You can put the discount and/or late penalty in the same ITD segment, or use multiple ITD segments.

<InvoiceDetailPaymentTerm> contains only two attributes: payInNumberOfDays and percentageRate. The percentageRate is positive for a discount if payment made <= payInNumberOfDays and is negative for a penalty if payment made > payInNumberOfDays. The base date is always the invoice date.

The Terms Type Code in ITD01 is used to help qualify the segment contents, but it is not captured.

A discount uses ITD03 and ITD05. A penalty uses ITD07 and ITD15.

Example 1: A 2% discount for prompt payment in < 10 days

ITD\*52\*3\*2\*\*10~ produces...

<InvoiceDetailPaymentTerm payInNumberOfDays="10" percentageRate="2">

Example 2: No discount offered, but a 15% penalty if they're over 30 days.

ITD\*05\*3\*\*\*\*\*30\*\*\*\*\*15~ produces...

<InvoiceDetailPaymentTerm payInNumberOfDays="30" percentageRate="-15">

Example 3: 2% discount within 10 days, or a 40% penalty if over a year, in one segment.

ITD\*01\*3\*2\*\*10\*\*365\*\*\*\*\*40~ produces...

<InvoiceDetailPaymentTerm payInNumberOfDays="10" percentageRate="2">

<InvoiceDetailPaymentTerm payInNumberOfDays="365" percentageRate="-40">

Ariba Network expects supplier to send the Payment terms if there are any payment terms in PO. This way ITD will become mandatory if the referencing PO has any payment terms (ITD segment in the 850 document).

Mapping the payment terms in cXML purchase order to EDI orders is a configurable option on Ariba Network. If supplier wants to get payment terms in cXML purchase order to EDI orders, then they have to enable the map payment terms check box in the EDI configuration page. For further information, please contact Ariba technical support.

Buyer can configure their account to either allow or not allow changes to the PO payment terms in invoice.

```
<InvoiceDetailRequestHeader>
  <InvoiceDetailPaymentTerm>
```

### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
ITD01	336	<b>Terms Type Code</b>	<b>O ID 2/2</b>	<b>M</b>
		Code identifying type of payment terms		
		ITD01 is required to identify to the translation process the type of terms you are defining. This indicates which elements in ITD to be captured. Only the three types listed here are supported. Using other type codes will cause a failure in translation.		
		01 Basic		
		ITD 03, 05, 07, and 15 are all required.		
		05 Discount Not Applicable		
		You should use this code if no discount is offered, but a late payment penalty exists. Note that ITD07 and ITD15 become mandatory.		
		52 Discount with Prompt Pay		
		ITD03 and ITD05 are required.		
ITD02	333	<b>Terms Basis Date Code</b>	<b>O ID 1/2</b>	<b>M</b>
		Code identifying the beginning of the terms period		
		In Ariba Network Invoicing, all payment terms are based on the Invoice Date. ITD02 is required.		
		3 Invoice Date		
ITD03	338	<b>Terms Discount Percent</b>	<b>O R 1/6</b>	<b>D</b>
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date		
		Required for ITD01=01 or 52, and must be used in combination with ITD05. This value is read as a percentage. If you mean 2.25% then ITD03=2.25, not 0.0225.		
ITD05	351	<b>Terms Discount Days Due</b>	<b>X N0 1/3</b>	<b>D</b>
		Number of days in the terms discount period by which payment is due if terms discount is earned		
		Required for ITD01=01 or 52, and must be used in combination with ITD03. This is the number of days from the Invoice Date (ITD02=3, BIG01).		
ITD07	386	<b>Terms Net Days</b>	<b>O N0 1/3</b>	<b>D</b>
		Number of days until total invoice amount is due (discount not applicable)		
		Required for ITD01=01 or 05. Must be used in combination with ITD15. This is the number of days from the Invoice Date after which penalty terms apply.		
ITD15	954	<b>Percent</b>	<b>O R 1/10</b>	<b>D</b>
		Percentage expressed as a decimal		
		Required for ITD01=01 or 05. Must be used in combination with ITD07. This is the penalty terms percentage to be applied ITD07 days after the Invoice Date (ITD02=3, BIG01).		

<b>Segment:</b>	<b>DTM</b> <b>Date/Time Reference</b>
<b>Position:</b>	140
<b>Loop:</b>	
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	10
<b>Purpose:</b>	To specify pertinent dates and times
<b>Syntax Notes:</b>	<b>1</b> At least one of DTM02 DTM03 or DTM05 is required. <b>2</b> If DTM04 is present, then DTM03 is required. <b>3</b> If either DTM05 or DTM06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Header level Dates are collected and dispursed to the various sections that require dates.  Note that a complete date/time/zone is recommended. Timestamps in cXML are represented as a date with a time, and an offset to UTC. If you do not specify a time, it is taken as midnight on the date specified. If you do not specify the time code (zone), then it will be defaulted.

Data Element Summary				
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
DTM01	374	Date/Time Qualifier	M ID 3/3	M
Code specifying type of date or time, or both date and time				
	003	Invoice	<div>Example:  DTM*003*20000417*1005*CS~  produces...  &lt;InvoiceDetailRequestHeader   invoiceDate="2001-04-17T10:05:00-06:00"&gt;  In case the invoice is a line level credit memo, DTM*003 cannot be to specify the complete date/time/zone of line level credit memo. Supplier needs to use DTM*188 with line level credit memo to specify the complete date/time/zone of line level credit memo.  DTM*003 can be used to provide a complete date/time/zone to Ariba Network, which is preferred over a simple date. If used, this overrides the invoice date found in BIG01.  This can be used in combination with REF @1/050, where REF01="IV". Either one or both can be used. Neither one is required.</div>	
	004	Purchase Order	<div>Example:  DTM*004*20010415*131352*PT~  produces...  &lt;InvoiceDetailRequest&gt;</div>	

011

```
...
<InvoiceDetailOrderInfo>
  <OrderIDInfo orderDate="2001-04-15T13:13:52-08:00">
```

DTM\*004 replaces BIG03.

A known problem with the 850 is that the order date in BEG05 contains only a date and cannot convey the complete date/time/zone used in the cXML OrderRequest.

The 1.2 version of the 850 guideline will be enhanced to include DTM\*004 to fully render the order date. If provided on the 850, suppliers should turn this around on fulfilment documents and invoices.

This is preferred, and highly recommended, but is not mandatory.

This can be used in combination with REF @1/050, where REF01="PO". Either one or both can be used, and neither one is required.

Shipped

Date of the goods shipment. Should match DTM01=011 from an earlier 856.

Example:

DTM\*011\*20010903\*0830\*ED~

becomes

```
<InvoiceDetailRequestHeader>
  <InvoiceDetailShipping shippingDate="2001-09-03T08:30:00-0400">
<InvoiceDetailRequestHeader>
  <InvoiceDetailShipping
    shippingDate= ISO datetime from
DTM02+DTM03+DTM04
  >
```

111

Manifest/Ship Notice

Notice date from earlier 856. Should match BSN03 + BSN04. See example on REF @1/050, with REF01="MA".

186

Invoice Period Start

When the billing period covered by an invoice begins

Used with 187 for Service Period start/end. As a pair they form the Period element in InvoiceDetailHeader.

Note that 186 and 187 must be used as a pair. If one is used without the other, the invoice will fail.

Example:

DTM\*186\*20040801~  
DTM\*187\*20040901~

produces...

```
<Period startDate="2004-08-01T00:00:00+00:00" endDate="2004-09-01T00:00:00+00:00" />
```

			<p>Notice that the startDate and endDate attributes in the Period element are of type datetime.tz. So if the time and timezone are not specified, they are defaulted. In this example the service is for a month, from Aug 1 to Sep 1, 2004. If the end date had been Aug 31 with no time specified, it would default to midnight and not include the actual day.</p>		
	187	Invoice Period End	<p>When the billing period covered by an invoice ends</p>		
			Used with 186 for Service Period start/end.		
	188	Credit Advice	<p>Example:</p> <p>DTM*188*20000417*1005*CS~</p> <p>produces...</p> <pre>&lt;InvoiceDetailRequestHeader   invoiceDate="2001-04-17T10:05:00-06:00"&gt;</pre> <p>DTM*188 can be used only with the line level credit memo.</p> <p>DTM*188 can be used to provide a complete date/time/zone to Ariba Network, which is preferred over a simple date. If used, this overrides the line level credit memo date found in BIG01.</p>		
	LEA	Letter of Agreement	<p>If a Master Agreement is to be cited under &lt;InvoiceDetailOrder&gt;, then the agreement date goes in DTM02-04. This is used in conjunction with REF @1/050, with REF01="AH".</p> <pre>&lt;InvoiceDetailRequestHeader&gt;   &lt;InvoiceDetailOrder&gt;     &lt;InvoiceDetailOrderInfo&gt;       &lt;MasterAgreementIDInfo ... agreementDate=DTM02-04&gt;</pre>		
<b>DTM02</b>	<b>373</b>	<b>Date</b>	<b>X</b>	<b>DT 8/8</b>	<b>O</b>
Date expressed as CCYYMMDD					
<b>DTM03</b>	<b>337</b>	<b>Time</b>	<b>X</b>	<b>TM 4/8</b>	<b>O</b>
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)					
<b>DTM04</b>	<b>623</b>	<b>Time Code</b>	<b>O</b>	<b>ID 2/2</b>	<b>R</b>
Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow					
Note that the LT code is not available. This is because Ariba Network does not currently have a way to make a context-sensitive assumption on the time zone.					
The ISO codes are favorable because you have direct control over the output, but they do not support half hour zones as in Newfoundland. (If you need Newfoundland time, NS & NT map to -0330, ND maps to -0230)					
For Central European Time, use code 01.					
Note also a little inconsistency with Hawaii-Aleutian Time. Hawaii and the Aleutian Islands are not on exactly the same time zone. So the midpoint of -10:00 is used without a					

shift.	
01	Equivalent to ISO P01 ="+01:00"
02	Equivalent to ISO P02 ="+02:00"
03	Equivalent to ISO P03 ="+03:00"
04	Equivalent to ISO P04 ="+04:00"
05	Equivalent to ISO P05 ="+05:00"
06	Equivalent to ISO P06 ="+06:00"
07	Equivalent to ISO P07 ="+07:00"
08	Equivalent to ISO P08 ="+08:00"
09	Equivalent to ISO P09 ="+09:00"
10	Equivalent to ISO P10 ="+10:00"
11	Equivalent to ISO P11 ="+11:00"
12	Equivalent to ISO P12 ="+12:00"
13	Equivalent to ISO M12 ="-12:00"
14	Equivalent to ISO M11 ="-11:00"
15	Equivalent to ISO M10 ="-10:00"
16	Equivalent to ISO M09 ="-09:00"
17	Equivalent to ISO M08 ="-08:00"
18	Equivalent to ISO M07 ="-07:00"
19	Equivalent to ISO M06 ="-06:00"
20	Equivalent to ISO M05 ="-05:00"
21	Equivalent to ISO M04 ="-04:00"
22	Equivalent to ISO M03 ="-03:00"
23	Equivalent to ISO M02 ="-02:00"
24	Equivalent to ISO M01 ="-01:00"

AD	Alaska Daylight Time
	="-08:00"
AS	Alaska Standard Time
	="-09:00"
AT	Alaska Time
	="-09:00"
CD	Central Daylight Time
	="-05:00"
CS	Central Standard Time
	="-06:00"
CT	Central Time
	="-06:00"
ED	Eastern Daylight Time
	="-04:00"
ES	Eastern Standard Time
	="-05:00"
ET	Eastern Time
	="-05:00"
GM	Greenwich Mean Time
	="+00:00"
HD	Hawaii-Aleutian Daylight Time
	="-10:00"
HS	Hawaii-Aleutian Standard Time
	="-10:00"
HT	Hawaii-Aleutian Time
	="-10:00"
MD	Mountain Daylight Time
	="-06:00"
MS	Mountain Standard Time
	="-07:00"
MT	Mountain Time
	="-07:00"
ND	Newfoundland Daylight Time
	="-02:30"
NS	Newfoundland Standard Time
	="-03:30"
NT	Newfoundland Time
	="-03:30"
PD	Pacific Daylight Time
	="-07:00"
PS	Pacific Standard Time
	="-08:00"
PT	Pacific Time
	="-08:00"
TD	Atlantic Daylight Time
	="-03:00"
TS	Atlantic Standard Time
	="-04:00"
TT	Atlantic Time

UT	= "-04:00"
	Universal Time Coordinate
	= "Z" or "-00:00"
	This is Coordinated Universal Time, or UTC. The correct ISO zone extension for UTC is simply a Z. However this release of Ariba Network does not support Z, so it renders as "-00:00", to distinguish it from GMT which uses "+00:00".



<b>Segment:</b>	<b>N9 Reference Identification</b>
<b>Position:</b>	240
<b>Loop:</b>	N9 Optional
<b>Level:</b>	Heading
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To transmit identifying information as specified by the Reference Identification Qualifier
<b>Syntax Notes:</b>	<b>1</b> At least one of N902 or N903 is required. <b>2</b> If N906 is present, then N905 is required. <b>3</b> If either C04003 or C04004 is present, then the other is required. <b>4</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> N906 reflects the time zone which the time reflects. <b>2</b> N907 contains data relating to the value cited in N902.
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Example:

N9\*L1\*en\*Comments~  
MSG\*Be sure printer ink cartridges are properly sealed to avoid spillage.~  
produces...  
  
<ConfirmationRequest>  
<ConfirmationHeader ...>  
...  
<Comments xml:lang="en">Be sure printer ink cartridges are properly sealed to avoid spillage.</Comments>  
  
Multiline comments are also possible. For intentional linefeeds, simply use multiple MSG segments. If you need a single comment line longer than 264 chars, use another MSG with MSG02="LC".  
  
N9\*L1\*en-CA\*Comments~  
MSG\*Fountain pens are on special next month.~  
MSG\*Several popular brands are available,~  
MSG\*along with various colours of ink.\*LC~  
MSG\*Supplies are limited.~  
produces...  
  
<Comments xml:lang="en-CA">Fountain pens are on special next month.  
Several popular brands are available, along with various colours of ink.  
Supplies are limited.</Comments>  
  
<InvoiceDetailRequestHeader>  
<Comments>

Data Element Summary				
Ref.	Data	Name	Base	User
Des.	Element		Attributes	Attributes
N901	128	Reference Identification Qualifier	M ID 2/3	M
		Code qualifying the Reference Identification		
		L1 Letters or Notes		
N902	127	Reference Identification	X AN 1/30	M
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier		

N902 is taken to be a language code. This must be a two char ISO 639 language code optionally followed by a dash and a two char ISO 3166 country code. The <Comments xml:lang> attribute is required.

Some examples...

en	English
en-US	American English
en-GB	British English
es	Spanish
es-MX	Mexican Spanish
fr	French
fr-CA	Canadian French

(Text from ANSI X12 is interpreted by Ariba Network to be ISO-8859-1, but chars above 7-bit ASCII might not relay with integrity across Value Added Networks. If you need multi-lingual text support in EDI, you might consider using EDIFACT.)

**Segment:** **MSG** Message Text

**Position:** 250

**Loop:** N9 Optional

**Level:** Heading

**Usage:** Mandatory

**Max Use:** 10

**Purpose:** To provide a free-form format that allows the transmission of text information

**Syntax Notes:** 1 If MSG03 is present, then MSG02 is required.

**Semantic Notes:** 1 MSG03 is the number of lines to advance before printing.

**Comments:** 1 MSG02 is not related to the specific characteristics of a printer, but identifies top of page, advance a line, etc.  
2 If MSG02 is "AA - Advance the specified number of lines before print" then MSG03 is required.

**Notes:**

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
MSG01	933	<b>Free-Form Message Text</b> Free-form message text	M AN 1/264	M
MSG02	934	<b>Printer Carriage Control Code</b> A field to be used for the control of the line feed of the receiving printer Set this element to "LC" if you wish the text of this segment to continue the text in the previous segment.	X ID 2/2	O
		LC Line Continuation		

<b>Segment:</b>	<b>IT1</b> <b>Baseline Item Data (Invoice)</b>
<b>Position:</b>	010
<b>Loop:</b>	IT1 Optional (Must Use)
<b>Level:</b>	Detail
<b>Usage:</b>	Optional (Must Use)
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the basic and most frequently used line item data for the invoice and related transactions
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If any of IT102 IT103 or IT104 is present, then all are required.</li> <li>2 If either IT106 or IT107 is present, then the other is required.</li> <li>3 If either IT108 or IT109 is present, then the other is required.</li> <li>4 If either IT110 or IT111 is present, then the other is required.</li> <li>5 If either IT112 or IT113 is present, then the other is required.</li> <li>6 If either IT114 or IT115 is present, then the other is required.</li> <li>7 If either IT116 or IT117 is present, then the other is required.</li> <li>8 If either IT118 or IT119 is present, then the other is required.</li> <li>9 If either IT120 or IT121 is present, then the other is required.</li> <li>10 If either IT122 or IT123 is present, then the other is required.</li> <li>11 If either IT124 or IT125 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	1 IT101 is the purchase order line item identification.
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 Element 235/234 combinations should be interpreted to include products and/or services. See the Data Dictionary for a complete list of IDs.</li> <li>2 IT106 through IT125 provide for ten different product/service IDs for each item. For example: Case, Color, Drawing No., U.P.C. No., ISBN No., Model No., or SKU.</li> </ol>
<b>Usage Notes:</b>	Mandatory
<b>Notes:</b>	<p>The contents of the IT1 group depend on whether this is a regular invoice, referencing one order with its line items, or is a summary invoice with each invoice line item citing a whole order.</p> <p>A regular invoice uses IT101, 02, 03, and 04, and Product/Service ID Qualifiers: SH, SN, VP, VS, BP, MG, MF, C3, and CH, with some conditions:</p> <ol style="list-style-type: none"> <li>1. IT101, 02, 03 and 04 are all required.</li> <li>2. If VS is used, then VP or SH is required.</li> <li>3. If either MF or MG is used, the other is required.</li> <li>4. If line item is a service item, then SH is mandatory. In this case, supplier can use only C3, VS, and BP as other qualifiers. SN and VP should not be used along with SH.</li> <li>5. If CH is used, it qualifies an ISO-3166 country code. Do not use the country name. (ARIBA NETWORK will fill in the localized country name)</li> <li>6. Qualifiers cannot be duplicated. You should use them in the above sequence.</li> </ol> <p>Violating any of these rules will cause a compliance error.</p> <p>A summary invoice does not use IT101, but does require IT102-IT104, and also uses Product/Service ID Qualifiers: PO and VO. The following conditions must be met:</p> <ol style="list-style-type: none"> <li>1. IT102 = 1 (one purchase order)</li> <li>2. IT103 = ZZ</li> <li>3. IT104 = Invoiced amount of purchase order being referenced.</li> <li>4. At least one of PO or VO is required. Both can be used.</li> <li>5. IT106="PO", if used, and IT108="VO", if used.</li> </ol> <p>You cannot mix and match your line items. If this invoice's header section references one purchase order, or has content in that manner (i.e. BIG03-04, IT101-04, etc.), then Product/Service ID Qualifiers PO and VO are not allowed at all. Likewise, if you're building a summary invoice, then PO line item content in IT1 is not allowed.</p>

See the separate documentation on how to use these features.

Example 1: Regular invoice citing a PO line item

IT1\*25\*75\*CP\*22\*\*SN\*3482918\*VP\*V16311\*VS\*R1\*BP\*B19CX9\*MG\*M657882\*  
MF\*Stuff, etc.\*CH\*MX~

produces...

```
<InvoiceDetailItem ... quantity="75">
  <InvoiceDetailItemReference lineNumber="25" serialNumber="3482918">
    <ItemID>
      <SupplierPartID>V16311</SupplierPartID>
      <SupplierPartAuxiliaryID>R1</SupplierPartAuxiliaryID>
    </ItemID>
    ...
    <ManufacturerPartID>M657882</ManufacturerPartID>
    <ManufacturerName>Stuff, etc.</ManufacturerName>
    <Country isoCountryCode="MX">Mexico</Country>
  <ItemDetailReference>
    <SubtotalAmount>
      <Money currency="USD">1650.00</Money>
    </SubtotalAmount>
    ...
    <Extrinsic name="Buyer's Part ID">B19CX9</Extrinsic>
  </InvoiceDetailItem>
```

Example 2: Regular invoice citing a PO service line item

IT1\*25\*75\*CP\*22\*\*SH\*3482918\*VS\*R1\*BP\*B19CX9\*C3\*2345678~

produces...

```
<InvoiceDetailServiceItem ... quantity="75">
  <InvoiceDetailServiceItemReference lineNumber="25">
    <Classification domain="UNSPSC">2345678</Classification>
    <ItemID>
      <SupplierPartID>3482918</SupplierPartID>
      <SupplierPartAuxiliaryID>R1</SupplierPartAuxiliaryID>
    </ItemID>
    ...
  </InvoiceDetailServiceItemReference>
  <SubtotalAmount>
    <Money currency="USD">1650.00</Money>
  </SubtotalAmount>
  <UnitOfMeasure>CP</UnitOfMeasure>
  <UnitPrice>
    <Money currency="USD">22.00</Money>
  </UnitPrice>
  ...
  <Extrinsic name="Buyer's Part ID">B19CX9</Extrinsic>
</InvoiceDetailServiceItem>
```

Example 3: Invoice summary citing a purchase order

IT1\*\*1\*ZZ\*425\*\*PO\*DO3596\*VO\*ORDSP255119~

produces...

```
<InvoiceDetailHeaderOrder>
  <InvoiceDetailOrderInfo>
    <OrderIDInfo orderID="DO3596" ...>
    <SupplierOrderInfo orderID="ORDSP255119">
  </InvoiceDetailOrderInfo>
  <InvoiceDetailOrderSummary>
    <SubtotalAmount>
      <Money currency="USD">425.00</Money>
    </SubtotalAmount>
    ...
  </InvoiceDetailOrderSummary>
```

\* In both cases, SubtotalAmount is the product of IT102 \* IT104, and the currency is taken from CUR (1/040), unless overridden by CUR (2/020).

IMPORTANT: Note that at least one IT1 group is required!

Mapping target:

```
<InvoiceDetailOrder>
  <InvoiceDetailItem>

or

<InvoiceDetailOrder>
  <InvoiceDetailServiceItem>
or

<InvoiceDetailHeaderOrder>
  <InvoiceDetailOrderInfo>
```

#### Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
IT101	350	<b>Assigned Identification</b> Alphanumeric characters assigned for differentiation within a transaction set Regular invoice line requires the line number reference from the purchase order. This must match PO101 [DE0350] from the 850. It is also required that this be an integer.  <pre>&lt;InvoiceDetailItem&gt;   &lt;InvoiceDetailItemReference     lineNumber %uint; #REQUIRED OR &lt;InvoiceDetailServiceItem&gt;   &lt;InvoiceDetailServiceItemReference     lineNumber %uint; #REQUIRED</pre>	O AN 1/20	D
IT102	358	<b>Quantity Invoiced</b> Number of units invoiced (supplier units)	X R 1/10	D
IT103	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken Refer to 004010 Data Element Dictionary for acceptable code values.	X ID 2/2	D
IT104	212	<b>Unit Price</b> Price per unit of product, service, commodity, etc.	X R 1/17	D
IT106	235	<b>Product/Service ID Qualifier</b>	X ID 2/2	O

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

PO

Purchase Order Number

Purchase order number from BEG03 on the 850. Use with DTM @2/150, with DTM01=004 for the PO date. Used only with summary invoicing.

```
<InvoiceDetailHeaderOrder>
  <InvoiceDetailOrderInfo>
    <OrderIDInfo orderID=DE0234 orderDate=DTM02-04
  />
```

SN

Serial Number

This should not be used with the InvoiceDetailServiceItem(IT1 with Product/Service ID Qualifier as SH).

```
<InvoiceDetailItem>
  <InvoiceDetailItemReference serialNumber=DE0234>
```

**IT107 234 Product/Service ID X AN 1/48 O**

Identifying number for a product or service

**IT108 235 Product/Service ID Qualifier X ID 2/2 O**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

SH

Service Requested

A numeric or alphanumeric code from a list of services available to the customer

```
<InvoiceDetailServiceItem>
  <InvoiceDetailServiceItemReference..
    <ItemID>
    <SupplierPartID>
```

VO

Vendor's Order Number

Supplier's order number. Compare to BAK08 on the 855. Used only with summary invoicing.

VP

Vendor's (Seller's) Part Number

Supplier's part number

**IT109 234 Product/Service ID X AN 1/48 O**

Identifying number for a product or service

**IT110 235 Product/Service ID Qualifier X ID 2/2 O**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

VS

Vendor's Supplemental Item Number

Supplier part auxiliary ID. If you use this, be careful that it matches your catalogue's usage. Some catalogues use the auxiliary ID as a language code, to support multi-language descriptions for the same item. Some others use it as a regional identifier.

If VS is used, then VP or SH is required.

**IT111 234 Product/Service ID X AN 1/48 O**

Identifying number for a product or service

**IT112 235 Product/Service ID Qualifier X ID 2/2 O**

Code identifying the type/source of the descriptive number used in Product/Service ID (234)

BP

Buyer's Part Number

This release of cXML does not have a <BuyerPartID>, so this renders as an <Extrinsic> with name="Buyer's Part ID".

```
<InvoiceDetailItem>
  ...
  <Extrinsic name="Buyer's Part
```

		<pre>ID"&gt;DE0234&lt;/Extrinsic&gt;</pre>			
		OR			
		<pre>&lt;InvoiceDetailServiceItem&gt; ... &lt;Extrinsic name="Buyer's Part ID"&gt;DE0234&lt;/Extrinsic&gt;</pre>			
IT113	234	Product/Service ID	X	AN 1/48	O
Identifying number for a product or service					
IT114	235	Product/Service ID Qualifier	X	ID 2/2	O
Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		C3	Classification		
		<pre>&lt;InvoiceDetailServiceItem&gt; &lt;InvoiceDetailServiceItemReference&gt; &lt;Classification&gt;</pre>			
		MG	Manufacturer's Part Number		
		Must be used with MF.			
		<pre>&lt;InvoiceDetailItem&gt; &lt;InvoiceDetailItemReference&gt; &lt;ManufacturerPartID&gt; DE0234</pre>			
IT115	234	Product/Service ID	X	AN 1/48	O
Identifying number for a product or service					
IT116	235	Product/Service ID Qualifier	X	ID 2/2	O
Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		MF	Manufacturer		
		Must be used with MG.			
		<pre>&lt;InvoiceDetailItem&gt; &lt;InvoiceDetailItemReference&gt; &lt;ManufacturerName&gt; DE0234</pre>			
IT117	234	Product/Service ID	X	AN 1/48	O
Identifying number for a product or service					
IT118	235	Product/Service ID Qualifier	X	ID 2/2	O
Code identifying the type/source of the descriptive number used in Product/Service ID (234)					
		CH	Country of Origin Code		
		Must be an ISO-3166 2-char country code.			
		<pre>&lt;InvoiceDetailItem&gt; &lt;InvoiceDetailItemReference&gt; ... &lt;Country isoCountryCode=DE0234&gt;(localized country name)&lt;/Country&gt;</pre>			
IT119	234	Product/Service ID	X	AN 1/48	O
Identifying number for a product or service					



<b>Segment:</b>	<b>CUR</b> Currency
<b>Position:</b>	020
<b>Loop:</b>	IT1 Optional (Must Use)
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the currency (dollars, pounds, francs, etc.) used in a transaction
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If CUR08 is present, then CUR07 is required.</li> <li>2 If CUR09 is present, then CUR07 is required.</li> <li>3 If CUR10 is present, then at least one of CUR11 or CUR12 is required.</li> <li>4 If CUR11 is present, then CUR10 is required.</li> <li>5 If CUR12 is present, then CUR10 is required.</li> <li>6 If CUR13 is present, then at least one of CUR14 or CUR15 is required.</li> <li>7 If CUR14 is present, then CUR13 is required.</li> <li>8 If CUR15 is present, then CUR13 is required.</li> <li>9 If CUR16 is present, then at least one of CUR17 or CUR18 is required.</li> <li>10 If CUR17 is present, then CUR16 is required.</li> <li>11 If CUR18 is present, then CUR16 is required.</li> <li>12 If CUR19 is present, then at least one of CUR20 or CUR21 is required.</li> <li>13 If CUR20 is present, then CUR19 is required.</li> <li>14 If CUR21 is present, then CUR19 is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	1 See Figures Appendix for examples detailing the use of the CUR segment.
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Can optionally be used to override the currency specified in the invoice header for this line item.

**Data Element Summary**

<b>Ref. Des.</b>	<b>Data Element</b>	<b>Name</b>	<b>Base Attributes</b>	<b>User Attributes</b>
<b>CUR01</b>	<b>98</b>	<b>Entity Identifier Code</b>	<b>M ID 2/3</b>	<b>M</b>
		Code identifying an organizational entity, a physical location, property or an individual		
		BY	Buying Party (Purchaser)	
		SE	Selling Party	
<b>CUR02</b>	<b>100</b>	<b>Currency Code</b>	<b>M ID 3/3</b>	<b>M</b>
		Code (Standard ISO) for country in whose currency the charges are specified		

<b>Segment:</b>	<b>CTP Pricing Information</b>
<b>Position:</b>	050
<b>Loop:</b>	IT1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify pricing information
<b>Syntax Notes:</b>	1. P0405 : If either CTP04 or CTP05 is present, then the other is required. 2. C0607 : If CTP06 is present, then CTP07 is required.
<b>Semantic Notes:</b>	CTP07 value to be used as a multiplier to obtain a new value.
<b>Comments:</b>	See Figures Appendix for an example detailing the use of CTP01, CTP04, CTP05, CTP06 and CTP07.
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Example: CTP*WS***1*DZ*CSD*12~  <pre>&lt;PriceBasisQuantity quantity="1" conversionFactor="12"&gt;   &lt;UnitOfMeasure&gt;DZ&lt;/UnitOfMeasure&gt; &lt;/PriceBasisQuantity&gt;</pre> <p>Note: Description for PriceBasisQuantity is not supported.</p>

## Data Element Summary

<u>Ref.</u>	<u>Data</u>	<u>Name</u>	<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
CTP01	687	<b>Class of Trade Code</b> Code indicating class of trade WS User	O ID 2/2	O
CTP04	380	<b>Quantity</b> Numeric value of quantity	O ID 1/15	O
CTP05	355	<b>Unit or Basis for Measurement Code</b> Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	O ID 2/2	O
CTP06	648	<b>Price Multiplier Qualifier</b> Code indicating the type of price multiplier	O ID 3/3	O
CTP07	649	<b>Multiplier</b> Value to be used as a multiplier to obtain a new value	O ID 1/10	O

<b>Segment:</b>	<b>PID</b> <b>Product/Item Description</b>
<b>Position:</b>	060
<b>Loop:</b>	PID Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To describe a product or process in coded or free-form format
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If PID04 is present, then PID03 is required.</li> <li>2 At least one of PID04 or PID05 is required.</li> <li>3 If PID07 is present, then PID03 is required.</li> <li>4 If PID08 is present, then PID04 is required.</li> <li>5 If PID09 is present, then PID05 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 Use PID03 to indicate the organization that publishes the code list being referred to.</li> <li>2 PID04 should be used for industry-specific product description codes.</li> <li>3 PID08 describes the physical characteristics of the product identified in PID04. A "Y" indicates that the specified attribute applies to this item; an "N" indicates it does not apply. Any other value is indeterminate.</li> <li>4 PID09 is used to identify the language being used in PID05.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 If PID01 equals "F", then PID05 is used. If PID01 equals "S", then PID04 is used. If PID01 equals "X", then both PID04 and PID05 are used.</li> <li>2 Use PID06 when necessary to refer to the product surface or layer being described in the segment.</li> <li>3 PID07 specifies the individual code list of the agency specified in PID03.</li> </ol>
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	<p>Used only with a regular invoice line. Multiple PID's cause their PID05 elements to be concatenated into a single &lt;Description&gt; element.</p> <p>One PID02="GEN" can be optionally included, and it causes a &lt;ShortName&gt; element to be generated within the #PCDATA. If used, it should be either at the beginning or the end of the list. Having only a PID*F*GEN*... is also acceptable.</p> <p>Example:</p> <pre>PID*F***Device for scrubbing graphite marks from bleached wood pulp***en~ PID*F***The kind we all know***en~ PID*F*GEN***Common eraser***en~</pre> <p>produces...</p> <p>If item is a detail item, then</p> <pre>&lt;InvoiceDetailItem&gt;   &lt;InvoiceDetailItemReference&gt;     ...     &lt;Description xml:lang="en"&gt;Device for scrubbing graphite marks from bleached wood pulp The kind we all know &lt;ShortName&gt;Common eraser&lt;/ShortName&gt;&lt;/Description&gt;</pre> <p>If item is a service item, then</p> <pre>&lt;InvoiceDetailServiceItem&gt;   &lt;InvoiceDetailServiceItemReference&gt;     ...     &lt;Description xml:lang="en"&gt;Device for scrubbing graphite marks from bleached wood pulp The kind we all know</pre>

```

<ShortName>Common eraser</ShortName></Description>

<InvoiceDetailItem>
  <InvoiceDetailItemReference>
    ...
    <Description xml:lang=PID09>PID05</Description>
  or
  <InvoiceDetailServiceItem>
    <InvoiceDetailServiceItemReference>
      ...
      <Description xml:lang=PID09>PID05</Description>

```

## Data Element Summary

Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
PID01	349	<b>Item Description Type</b> Code indicating the format of a description F Free-form	M ID 1/1	M
PID02	750	<b>Product/Process Characteristic Code</b> Code identifying the general class of a product or process characteristic Write "GEN" to this element to cause a <ShortName> to be generated, otherwise leave it blank. GEN General Description	O ID 2/3	O
PID05	352	<b>Description</b> A free-form description to clarify the related data elements and their content	X AN 1/80	O
PID09	819	<b>Language Code</b> Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639) ISO-639 language code. xml:lang is required in the <Description> element. If you don't supply it, then it will be defaulted.	O ID 2/3	R

<b>Segment:</b>	<b>ITD</b> Terms of Sale/Deferred Terms of Sale
<b>Position:</b>	110
<b>Loop:</b>	IT1 Optional (Must Use)
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	2
<b>Purpose:</b>	To specify terms of sale
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 If ITD03 is present, then at least one of ITD04 ITD05 or ITD13 is required.</li> <li>2 If ITD08 is present, then at least one of ITD04 ITD05 or ITD13 is required.</li> <li>3 If ITD09 is present, then at least one of ITD10 or ITD11 is required.</li> </ol>
<b>Semantic Notes:</b>	1 ITD15 is the percentage applied to a base amount used to determine a late payment charge.
<b>Comments:</b>	1 If the code in ITD01 is "04", then ITD07 or ITD09 is required and either ITD10 or ITD11 is required; if the code in ITD01 is "05", then ITD06 or ITD07 is required.
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	<p>Ariba Invoicing currently supports payment terms only by the number of days from the invoice date (BIG01), and a discount and/or premium.</p>

You can put the discount and/or late penalty in the same ITD segment, or use multiple ITD segments.

<InvoiceDetailPaymentTerm> contains only two attributes: payInNumberOfDays and percentageRate. The percentageRate is positive for a discount if payment made <= payInNumberOfDays and is negative for a penalty if payment made > payInNumberOfDays. The base date is always the invoice date.

The Terms Type Code in ITD01 is used to help qualify the segment contents, but it is not captured.

A discount uses ITD03 and ITD05. A penalty uses ITD07 and ITD15.

Example 1: A 2% discount for prompt payment in < 10 days

ITD\*52\*3\*2\*\*10~ produces...

<InvoiceDetailPaymentTerm payInNumberOfDays="10" percentageRate="2">

Example 2: No discount offered, but a 15% penalty if they're over 30 days.

ITD\*05\*3\*\*\*\*\*30\*\*\*\*\*15~ produces...

<InvoiceDetailPaymentTerm payInNumberOfDays="30" percentageRate="-15">

Example 3: 2% discount within 10 days, or a 40% penalty if over a year, in one segment.

ITD\*01\*3\*2\*\*10\*\*365\*\*\*\*\*40~ produces...

<InvoiceDetailPaymentTerm payInNumberOfDays="10" percentageRate="2">

<InvoiceDetailPaymentTerm payInNumberOfDays="365" percentageRate="-40">

#### Data Element Summary

<u>Ref.</u>	<u>Data</u>		<u>Base</u>	<u>User</u>
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
ITD01	336	Terms Type Code	O ID 2/2	O
		Code identifying type of payment terms		
		ITD01 is used to qualify the contents, but it is not captured.		
		01 Basic		

05 Discount Not Applicable

You should use this code if no discount is offered, but a late payment penalty exists. Note that ITD07 becomes mandatory.

52 Discount with Prompt Pay

<b>ITD02</b>	<b>333</b>	<b>Terms Basis Date Code</b>	<b>O</b>	<b>ID 1/2</b>	<b>O</b>
		Code identifying the beginning of the terms period			
		Refer to 004010 Data Element Dictionary for acceptable code values.			
<b>ITD03</b>	<b>338</b>	<b>Terms Discount Percent</b>	<b>O</b>	<b>R 1/6</b>	<b>O</b>
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date			
<b>ITD05</b>	<b>351</b>	<b>Terms Discount Days Due</b>	<b>X</b>	<b>N0 1/3</b>	<b>O</b>
		Number of days in the terms discount period by which payment is due if terms discount is earned			
<b>ITD07</b>	<b>386</b>	<b>Terms Net Days</b>	<b>O</b>	<b>N0 1/3</b>	<b>O</b>
		Number of days until total invoice amount is due (discount not applicable)			
<b>ITD15</b>	<b>954</b>	<b>Percent</b>	<b>O</b>	<b>R 1/10</b>	<b>O</b>
		Percentage expressed as a decimal			

<b>Segment:</b>	<b>REF</b> <b>Reference Identification</b>
<b>Position:</b>	120
<b>Loop:</b>	IT1 Optional (Must Use)
<b>Level:</b>	Detail
<b>Usage:</b>	Optional (Must Use)
<b>Max Use:</b>	>1
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Usage Notes:</b>	Mandatory
<b>Notes:</b>	Example 1: Regular invoice line  REF*FJ*1~  Example 2: Summary invoice  REF*AH*AGR31429~ REF*FJ*1~ REF*MA*843-2187-5193~  The qualifiers AH and MA apply only to summary invoices, when you are providing order information at the invoice line item level. Do not use these codes in a regular invoice.  Note that REF*FJ is required for both regular and summary type invoices.

Data Element Summary				
Ref.	Data	Name	Base	User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>	<u>Attributes</u>
REF01	128	Reference Identification Qualifier	M ID 2/3	M
Code qualifying the Reference Identification				
		AH	Agreement Number	
			If a Master Agreement is to be cited under <InvoiceDetailHeaderOrder>, then the agreement number goes in REF02, and REF03 is unused. This is used in conjunction with DTM @2/150, with DTM01="LEA".	
			<InvoiceDetailRequest> <InvoiceDetailHeaderOrder> <InvoiceDetailOrderInfo> <MasterAgreementIDInfo agreementID=REF02>	
		FJ	Line Item Control Number	
			A unique number assigned to each charge line used for tracking purposes	
			Required for both regular and summary invoice lines, and must be an integer. It is recommended that you either map them directly from your invoicing system, if available in integer form, or generate these numbers in your outbound invoice map using an accumulator	
			REF03 is not used.	
			<InvoiceDetailItem invoiceLineNumber %uint; #REQUIRED	

MA

```

=REF02

<InvoiceDetailOrderSummary
  invoiceLineNumber %uint; #REQUIRED
  =REF02

```

Ship Notice/Manifest Number

Shipment Id of an earlier Advance Ship Notice (ASN). This would be BSN02 (DE0396) "Shipment Identifier" from an 856 previously sent.

If you are using this, then it is recommended to include a DTM @2/150, with DTM01="111" Manifest/Ship Notice Date which would match its counterpart in BSN03 (date) and BSN04 (time) from the 856.

Example:

```

(2/120) REF*MA*843-2187-5193~
(2/150) DTM*111*20010903*121844~

```

produces...

```

<InvoiceDetailRequestHeader>
  <InvoiceDetailShipping>
    <DocumentReference
      payloadID of ASN
      with shipmentID="843-2187-5193"
      and noticeDate="2001-09-03T12:18:44"
    >

```

```

<InvoiceDetailRequestHeader>
  <InvoiceDetailOrder> or
  <InvoiceDetailHeaderOrder>
    <InvoiceDetailItem>
  <InvoiceDetailOrderSummary>
    ...
    <InvoiceDetailLineShipping>
    <DocumentReference>

```

ZZ

Mutually Defined

Text extrinsics with a supplier-defined name in REF02 and data in REF03. Note that this data cannot be electronically processed, unless your customer is programatically aware of the name used in REF02.

Both REF02 and REF03 are required. REF\*ZZ may be used up to 99 times. Additional occurrences are ignored.

Example:

```

REF*ZZ*Part Configuration*Type A-15~

```

produces...

```

<Extrinsic name="Part Configuration">Type A-15</Extrinsic>

```

```

<InvoiceDetailRequest>
  <InvoiceDetailOrder>
    <InvoiceDetailItem>
      <Extrinsic name=REF02>REF03</Extrinsic>

```



<b>REF02</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>	<b>O</b>
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier			
<b>REF03</b>	<b>352</b>	<b>Description</b>	<b>X</b>	<b>AN 1/80</b>	<b>O</b>
		A free-form description to clarify the related data elements and their content			

<b>Segment:</b>	<b>DTM</b> <b>Date/Time Reference</b>
<b>Position:</b>	150
<b>Loop:</b>	IT1 Optional (Must Use)
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	2
<b>Purpose:</b>	To specify pertinent dates and times
<b>Syntax Notes:</b>	<b>1</b> At least one of DTM02 DTM03 or DTM05 is required. <b>2</b> If DTM04 is present, then DTM03 is required. <b>3</b> If either DTM05 or DTM06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	Line item dates are used only when building a summary invoice. Dates here are matched up with corresponding REF @2/120.

Data Element Summary				
Ref. Des.	Data Element	Name	Base Attributes	User Attributes
DTM01	374	Date/Time Qualifier	M ID 3/3	M
Code specifying type of date or time, or both date and time				
	004	Purchase Order	Used with IT1*...*PO* when building <InvoiceDetailHeaderOrder>. The purchase order date corresponds to BEG05 from the 850.	
	111	Manifest/Ship Notice	Notice date from earlier 856. Should match BSN03 + BSN04. See example on REF @2/120, with REF01="MA".	
	150	Service Period Start	Used with IT1*...*SH* when building <InvoiceDetailServiceItem>. This used in conjunction with DTM+151. This date will be mapped to service item period startDate.  <InvoiceDetailServiceItem> ... ... <Period startDate="	
	151	Service Period End	Used with IT1*...*SH* when building <InvoiceDetailServiceItem>. This used in conjunction with DTM+150. This date will be mapped to service item period endDate.  <InvoiceDetailServiceItem> ... ... <Period startDate=".." endDate="..">	
	214	Date of Repair/Service	Used with IT1*...*SH* when building <InvoiceDetailServiceItem>.	

			This date will be mapped to service item referenceDate attribute.		
			<InvoiceDetailServiceItem .. referenceDate="..		
LEA			Letter of Agreement		
			If a Master Agreement is to be cited under		
			<InvoiceDetailHeaderOrder>, then the agreement date goes in		
			DTM02-04. This is used in conjunction with REF @2/120, with		
			REF01="AH".		
DTM02	373	Date	X	DT 8/8	O
Date expressed as CCYYMMDD					
DTM03	337	Time	X	TM 4/8	O
Time expressed in 24-hour clock time as follows: HHMM, or HHMMSS, or HHMMSSD, or HHMMSSDD, where H = hours (00-23), M = minutes (00-59), S = integer seconds (00-59) and DD = decimal seconds; decimal seconds are expressed as follows: D = tenths (0-9) and DD = hundredths (00-99)					
DTM04	623	Time Code	O	ID 2/2	O
Code identifying the time. In accordance with International Standards Organization standard 8601, time can be specified by a + or - and an indication in hours in relation to Universal Time Coordinate (UTC) time; since + is a restricted character, + and - are substituted by P and M in the codes that follow					
See notes on Time Code usage in DTM @1/140.					
Refer to 004010 Data Element Dictionary for acceptable code values.					

<b>Segment:</b>	<b>SAC</b> Service, Promotion, Allowance, or Charge Information
<b>Position:</b>	180
<b>Loop:</b>	SAC Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of SAC02 or SAC03 is required.</li> <li>2 If either SAC03 or SAC04 is present, then the other is required.</li> <li>3 If either SAC06 or SAC07 is present, then the other is required.</li> <li>4 If either SAC09 or SAC10 is present, then the other is required.</li> <li>5 If SAC11 is present, then SAC10 is required.</li> <li>6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.</li> <li>7 If SAC14 is present, then SAC13 is required.</li> <li>8 If SAC16 is present, then SAC15 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.</li> <li>2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.</li> <li>3 SAC08 is the allowance or charge rate per unit.</li> <li>4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.</li> <li>5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.</li> <li>6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.</li> <li>7 SAC16 is used to identify the language being used in SAC15.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.</li> <li>2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.</li> </ol>
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	<p>See specific examples based on SAC02 value.</p> <p>Every &lt;Description&gt; element in cXML requires an xml:lang attribute, so SAC16 should be considered as required if SAC15 is used. If SAC15 is present and SAC16 is not, then xml:lang has to be defaulted.</p> <p>The following SAC codes are supported as Modification Allowances:</p> <p>B660 C300 C310 H970 I530</p> <p>Example: SAC*A*C300***10000*****Fragile packaging*en~ produces... &lt;InvoiceItemModifications&gt; &lt;Modification&gt; &lt;AdditionalDeduction&gt; &lt;DeductionAmount&gt; &lt;Money currency="USD"&gt;100&lt;/Money&gt;</p>

```

</DeductionAmount>
</AdditionalDeduction>
<ModificationDetail name="Discount-Special">
<Description xml:lang="en">Fragile Packaging</Description>
</ModificationDetail>
</Modification>
</InvoiceItemModifications>

```

The following SAC codes are supported as Modification Charges:

```

A040
A050
A060
A170
A520
A960
D180
D240
D500
D980
G580
G821

```

Example:

SAC\*C\*G821\*\*\*10000\*\*\*\*\*Fragile packaging\*en~  
produces...

```

<InvoiceItemModifications>
<Modification>
<AdditionalCost>
<Money currency="USD">100</Money>
</AdditionalCost>
<ModificationDetail name="Shipping">
<Description xml:lang="en">Fragile Packaging</Description>
</ModificationDetail>
</Modification>
</InvoiceItemModifications>

```

#### Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
<b>SAC01</b>	<b>248</b>	<b>Allowance or Charge Indicator</b>	<b>M ID 1/1</b>	<b>M</b>
		Code which indicates an allowance or charge for the service specified		
		A Allowance		
		Used only for <InvoiceDetailDiscount>, with SAC02="C310" (Discount)		
		C Charge		
		Used for all other values of SAC02.		
		N No Allowance or Charge		
		Used only for <Distribution>, with SAC02="B840" (Customer Account Identification)		
<b>SAC02</b>	<b>1300</b>	<b>Service, Promotion, Allowance, or Charge Code</b>	<b>X ID 4/4</b>	<b>O</b>
		Code identifying the service, promotion, allowance, or charge		
		A040 Access Charge		
		A050 AccountNumberCorrectionCharge		
		A060 AcidBattery		

A170	Adjustment
A520	Charge
A960	Carrier
B660	Contract Allowance
B840	Customer Account Identification

Each occurrence of SAC\*N\*B840\*... creates one <Distribution> structure, which contains the customer's charge account information. Only one account segment is generated. Multi-segment account numbers cannot be supported.

Requires SAC04 (SAC03="AB"), SAC05, SAC13, SAC14, SAC15, and SAC16.

Percentage of charge distribution is provided in SAC07, with SAC06="Z", but cannot yet be captured by cXML. Usage of SAC07 is recommended, but optional.

SAC\*N\*B840\*... is allowed to repeat. Multiple occurrences imply split accounting. If SAC07 is used, then they should add up to 100%. (If the 100% rule is validated, a difference of < .0001 is considered equal, to compensate for floating point roundoff)

Example:

SAC\*N\*B840\*AB\*default\*24819\*Z\*100\*\*\*\*\*DX41\*Cost Center\*Office Supplies\*en~

produces...

```
<Distribution>
  <Accounting name="default">
    <AccountingSegment id="DX41">
      <Name xml:lang="en">Cost Center</Name>
      <Description xml:lang="en">Office Supplies</Description>
    </AccountingSegment>
  </Accounting>
  <Charge>
    <Money currency="USD">248.19</Money>
  </Charge>
</Distribution>
```

This example uses the preferred <AccountingSegment> in order to capture the language code. Implemented with the (deprecated) <Segment> element, it would be as such:

```
<Distribution>
  <Accounting name="default">
    <Segment type="Cost Center" id="DX41" description="Office
Supplies"/>
  </Accounting>
  <Charge>
    <Money currency="USD">248.19</Money>
  </Charge>
</Distribution>
```

Mapping target:

C300

C310

```
<Distribution>
  <Accounting name=SAC04>
    <AccountingSegment id=SAC13>
      <Name xml:lang=SAC16>SAC14</Name>
      <Description
xml:lang=SAC16>SAC15</Description>
    </AccountingSegment>
  </Accounting>
  <Charge>
    <Money currency=CUR02 (@2/020)>SAC05</Money>
  </Charge>
</Distribution>
```

Discount-Special

Discount

One optional occurrence of SAC\*A\*C310\*... builds an <InvoiceDetailDiscount> structure.

Requires: SAC05, SAC07 (SAC06="3").

SAC15,16 are implemented but no description is captured to cXML in this release. It is recommended that if you have a description that you do map it, for it may be captured in a future release.

Example:

SAC\*A\*C310\*\*\*2460\*3\*10\*\*\*\*\*Contract discount\*en~

produces...

```
<InvoiceDetailDiscount percentageRate="10">
  <Money currency="USD">24.60</Money>
</InvoiceDetailDiscount>
```

Mapping target:

```
<InvoiceDetailDiscount percentageRate=SAC07>
  <Money currency=CUR02 (@2/020)>SAC05</Money>
</InvoiceDetailDiscount>
```

D180

D240

D500

D980

G580

G821

G830

FreightBasedOnDollarMinimum

Freight

Handling

Insurance

Royalties

Shipping

Shipping and Handling

One optional occurrence of SAC\*C\*G830\*... contributes the required <Money> to an <InvoiceDetailShipping> structure.

Code G830 was chosen because it was used on the 850 for <Shipping>. <InvoiceDetailShipping> implicitly includes common handling charges, but not special handling (see code H090).

Requires: SAC05, SAC15.

Example: SAC\*C\*G830\*\*\*580\*3\*10\*\*\*\*\*shipping \*en~

<InvoiceDetailShipping> is built from several places.

SAC\*C\*G830 simply contributes the monetary charge. See

H090

example for N1 @2/240.

As <InvoiceDetailShipping> is not a part of <InvoiceDetailServiceItem>, SAC\*C\*G830 is not supported with IT1\*..\*SH\*..

Special Handling

One optional occurrence of SAC\*C\*H090\*... builds an <InvoiceDetailSpecialHandling> structure.

This is for special handling charges that would not ordinarily be included with common Shipping and Handling.

Requires SAC05

Uses SAC15-16 (Description is captured, is optional, but is recommended)

Example:

SAC\*C\*H090\*\*\*525\*\*\*\*\*Fragile packaging\*en~

produces...

```
<InvoiceDetailSpecialHandling>
  <Description xml:lang="en">Fragile packaging</Description>
  <Money currency="USD">5.25</Money>
</InvoiceDetailSpecialHandling>
```

As <InvoiceDetailSpecialHandling> is not a part of <InvoiceDetailServiceItem>, SAC\*C\*G830 is not supported with IT1\*..\*SH\*..

Mapping target:

```
<InvoiceDetailSpecialHandling>
  <Description xml:lang=SAC16>SAC15</Description>
  <Money currency=CUR02 (@2/020)>SAC05</Money>
</InvoiceDetailSpecialHandling>
```

H850

Tax

One optional occurrence of SAC\*C\*H850\*... builds a <Tax> structure.

Requires: SAC05, SAC15-16.

The <Tax> mapping can also capture TXI segments (2/190) to build <TaxDetail> elements. If <TaxDetail> is used, then the sum of TXI02 must equal SAC05. (Since TXI02 is of type R, a difference of < 1.0E-06 is considered equal.)

Example:

SAC\*C\*H850\*\*\*5500\*\*\*\*\*Total line tax\*en~

produces...

```
<Tax>
  <Money currency="USD">55.00</Money>
  <Description xml:lang="en">Total line tax</Description>
</Tax>
```

Mapping target:

```
<Tax>
```



			<pre> &lt;Money currency=CUR02 (@2/020)&gt;SAC05&lt;/Money&gt; &lt;Description xml:lang=SAC16&gt;SAC15&lt;/Description&gt; &lt;TaxDetail purpose="tax" category=("sales", "gst", "vat", "other" - derived from TXI01/ TXI09) percentageRate=TXI03&gt;   &lt;TaxableAmount&gt;     &lt;Money currency=CUR02 (@2/020)&gt;TXI08&lt;/Money&gt;   &lt;/TaxableAmount&gt;   &lt;TaxAmount&gt;     &lt;Money currency=CUR02 (@2/020)&gt;TXI02&lt;/Money&gt;   &lt;/TaxAmount&gt;   &lt;TaxLocation xml:lang=SAC16&gt;TXI05, (TXI04="VD")&lt;/TaxLocation&gt; &lt;/TaxDetail&gt; &lt;/Tax&gt; </pre>			
		H970	Allowance			
		I530	Volume Discount			
<b>SAC03</b>	<b>559</b>	<b>Agency Qualifier Code</b>	<b>X</b>	<b>ID 2/2</b>	<b>D</b>	
		Code identifying the agency assigning the code values				
		Used only with SAC02="B840" (Customer Account Identification)				
		AB	Assigned by Buyer			
<b>SAC04</b>	<b>1301</b>	<b>Agency Service, Promotion, Allowance, or Charge Code</b>	<b>X</b>	<b>AN 1/10</b>	<b>D</b>	
		Agency maintained code identifying the service, promotion, allowance, or charge				
		Used only with SAC02="B840" (Customer Account Identification)				
		<pre> &lt;Accounting   name %string; #REQUIRED   = SAC04, where SAC01="N", SAC02="B840", SAC03="AB" &gt; </pre>				
<b>SAC05</b>	<b>610</b>	<b>Amount</b>	<b>O</b>	<b>N2 1/15</b>	<b>D</b>	
		Monetary amount				
<b>SAC06</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b>	<b>X</b>	<b>ID 1/1</b>	<b>O</b>	
		Code indicating on what basis allowance or charge percent is calculated				
		3	Discount/Gross			
			Used only for <InvoiceDetailDiscount>, SAC02="C310" (Discount)			
		Z	Mutually Defined			
			Used only for <Distribution>, SAC02="B840" (Customer Account Information)			
<b>SAC07</b>	<b>332</b>	<b>Percent</b>	<b>X</b>	<b>R 1/6</b>	<b>O</b>	
		Percent expressed as a percent				
<b>SAC13</b>	<b>127</b>	<b>Reference Identification</b>	<b>X</b>	<b>AN 1/30</b>	<b>O</b>	
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier				
<b>SAC14</b>	<b>770</b>	<b>Option Number</b>	<b>O</b>	<b>AN 1/20</b>	<b>O</b>	
		A unique number identifying available promotion or allowance options when more than one is offered				
<b>SAC15</b>	<b>352</b>	<b>Description</b>	<b>X</b>	<b>AN 1/80</b>	<b>D</b>	
		A free-form description to clarify the related data elements and their content. This can be used to specify custom tax description when used with TXI01 as ZZ and TXI09 exists.				
<b>SAC16</b>	<b>819</b>	<b>Language Code</b>	<b>O</b>	<b>ID 2/3</b>	<b>O</b>	<b>ID 2/2</b>
		Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)				

<b>Segment:</b>	<b>TXI Tax Information</b>
<b>Position:</b>	190
<b>Loop:</b>	SAC Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	10
<b>Purpose:</b>	To specify tax information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of TXI02 TXI03 or TXI06 is required.</li> <li>2 If either TXI04 or TXI05 is present, then the other is required.</li> <li>3 If TXI08 is present, then TXI03 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TXI02 is the monetary amount of the tax.</li> <li>2 TXI03 is the tax percent expressed as a decimal.</li> <li>3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.</li> </ol>
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	<p>TXI is used to supply &lt;TaxDetail&gt; only when SAC01="C" and SAC02="H850".</p> <p>&lt;TaxDetail&gt; has four attributes: purpose, category, percentageRate, and isVatRecoverable The Ariba Invoicing module supports purpose="tax" and category as one of "sales", "gst", "vat", "qst", "hst", "pst" or "other".</p> <p>category will be generated with regard to tax jurisdiction code (TXI05) and tax type code (TXI01)</p> <p>TXI allows all TXI01 codes. A many to one mapping is performed on TXI01 with regard to TXI05 to the seven category values cited:</p> <p>If TXI05 is not a Canada location, and if TXI01 is not PS, PG or ST, then the category will be generated as</p> <p>"sales":CS, CP, LT, ST  "gst": CG, CV, GS  "vat": VA  "other": everything else</p> <p>Else If TXI05 is Canada location and if TXI01 is either PS, PG or ST, then category will be generated as</p> <p>"qst": If TXI05 is '.qc.ca'  "hst": If TXI05 is '.ns.ca', '.nf.ca', '.nb.ca', or '.on.ca'  "pst": for all other Canada tax locations.</p> <p>Note: This is overridden if TXI09 is used.</p> <p>The percentage attribute captures TXI03, and the isVatRecoverable attribute is not mapped.</p> <p>The jurisdiction code must be assigned by the supplier and is captured by &lt;TaxLocation&gt;. The final &lt;Description&gt; is not offered by TXI, so it captures the X12 description for the TXI01 code.</p> <p>Example:</p> <p>TXI*ST*4538*8.25*VD*California***550~  TXI*HZ*962*1.75*VD*California***550~</p> <p>produces...</p>

```
<TaxDetail purpose="tax" category="sales" percentageRate="8.25">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">4538</Money>
  </TaxAmount>
  <TaxLocation>California</TaxLocation>
  <Description xml:lang="en">State Sales Tax</Description>
</TaxDetail>
<TaxDetail purpose="tax" category="other" percentageRate="1.75">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">9.62</Money>
  </TaxAmount>
  <TaxLocation>California</TaxLocation>
  <Description xml:lang="en">Hazardous Waste Tax</Description>
</TaxDetail>
```

TXI\*PG\*4538\*8.25\*VD\*.qc.ca\*\*\*550~

produces...

```
<TaxDetail purpose="tax" category="qst" percentageRate="8.25">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">45.38</Money>
  </TaxAmount>
  <TaxLocation> xml:lang = "en">.qc.ca</TaxLocation>
  <Description xml:lang="en">State or Provincial Tax on Goods</Description>
</TaxDetail>
```

TXI\*GS\*4538\*8.25\*VD\*.qc.ca\*\*\*550~

When the location is Canada and the tax type code (TX101) is GS, it generates a category called "gst"

produces ....

```
<TaxDetail purpose="tax" category="gst" percentageRate="8.25">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">45.38</Money>
  </TaxAmount>
  <TaxLocation>xml:lang = "en">.qc.ca</TaxLocation>
  <Description xml:lang="en">Goods and Sales Tax</Description>
</TaxDetail>
```

TXI\*HZ\*962\*1.75\*VD\*California\*\*\*550\*HWTax~

If TXI09 is present with standard code in TXI01

produces ....

```
<TaxDetail purpose="tax" category="HWTax" percentageRate="1.75">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">9.62</Money>
  </TaxAmount>
  <TaxLocation>California</TaxLocation>
  <Description xml:lang="en">Hazardous Waste Tax</Description>
</TaxDetail>
```

When TXI01 is ZZ, the category is substituted with the TXI09 value, if present. The description is substituted with the SAC15 value if TXI01 is ZZ and TXI09 is present.

```
SAC*C*H850***1998*****Carbon Tax*EN~
TXI*ZZ*962*1.75*VD*California***550*CarbonTax~
```

produces ...

```
<TaxDetail purpose="tax" category="CarbonTax" percentageRate="1.75">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">9.62</Money>
  </TaxAmount>
  <TaxLocation>California</TaxLocation>
  <Description xml:lang="en">Carbon Tax</Description>
</TaxDetail>
```

\* Note that TXI01=TX implies "All Taxes", so if used should be alone.

Mapping target:

```
<TaxDetail purpose="tax" category=(sales | gst | vat | other)
<custom category in TXI09>)
  percentageRate=TXI03 isVatRecoverable=(not mapped)>
  <TaxableAmount>
    <Money currency=CUR02>TXI08</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency=CUR02>TXI02</Money>
  </TaxAmount>
  <TaxLocation xml:lang=(defaulted)>TXI05</TaxLocation>
  <Description xml:lang=(defaulted)>(Description of TXI01 code
from X12 standard/ Description from SAC15 code if TXI01 is ZZ and
TXI09 is present))</Description>
</TaxDetail>
```

\*Note: TXI for an SAC of type Modification:

If TXI01=TX or ZZ , it is mapped to

<Tax>, otherwise the TXI is mapped to <TaxDetail>.

Example:

```
SAC*A*I530***10000*****2*2*Volume Discount Description*en~
TXI*GS*11.13*7*VD*CA***159~
TXI*VA*7.21*5*VD*DE***144.2~
```

```

TXI*PS*18.55*8*VD*ON***231.87~
TXI*ZZ*54.24*11.25*VD*Nobody***482.13~

produces

<Modification>
<AdditionalDeduction>
<DeductionAmount>
<Money currency="USD">100</Money>
</DeductionAmount>
</AdditionalDeduction>
<Tax>
<Money currency="USD">54.24</Money>
<Description xml:lang="tr"></Description>
<TaxDetail category="gst" percentageRate="7" purpose="tax">
<TaxableAmount>
<Money currency="USD">159</Money>
</TaxableAmount>
<TaxAmount>
<Money currency="USD">11.13</Money>
</TaxAmount>
<TaxLocation xml:lang="tr">CA</TaxLocation>
<Description xml:lang="en">Goods and Services Tax</Description>
</TaxDetail>
<TaxDetail category="vat" percentageRate="5" purpose="tax">
<TaxableAmount>
<Money currency="USD">144.2</Money>
</TaxableAmount>
<TaxAmount>
<Money currency="USD">7.21</Money>
</TaxAmount>
<TaxLocation xml:lang="tr">DE</TaxLocation>
<Description xml:lang="en">Value Added Tax</Description>
</TaxDetail>
<TaxDetail category="other" percentageRate="8" purpose="tax">
<TaxableAmount>
<Money currency="USD">231.87</Money>
</TaxableAmount>
<TaxAmount>
<Money currency="USD">18.55</Money>
</TaxAmount>
<TaxLocation xml:lang="tr">ON</TaxLocation>
<Description xml:lang="en">State or Provincial Tax on
Services</Description>
</TaxDetail>
</Tax>
<ModificationDetail name="Volume Discount">
<Description xml:lang="en">Volume Discount
Description</Description>
</ModificationDetail>
</Modification>

```

## Data Element Summary

Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
TXI01	963	Tax Type Code	M ID 2/2	M
		Code specifying the type of tax		
		AA	Stadium Tax	
		AB	Surtax	
		AT	Assessment	
		BP	Business Privilege Tax	
		Tax imposed on non-American Indian businesses for the privilege of conducting business on an American Indian reservation		

CA	City Tax Service Tax imposed by City
CB	Threshold Tax
CG	Federal Value-added Tax (GST) on Goods
CI	City Rental Tax Levied by a city government against the periodic fee paid by a customer in return for the right to use the property of another party
CP	County/Parish Sales Tax
CR	County Rental Tax Levied by a county government against the periodic fee paid by a customer in return for the right to use the property of another party
CS	City Sales Tax
CT	County Tax
CV	Federal Value-added Tax (GST) on Services
DL	Default Labor Tax
EQ	Equipment Tax
ET	Energy Tax Tax applied to the utility and petroleum industries
EV	Environmental Tax
F1	FICA Tax
F2	FICA Medicare Tax
F3	FICA Social Security Tax
FD	Federal Tax Usage tax imposed by federal (US and Canadian) government
FF	Fuel Super Fund Tax
FI	Federal Income Tax Withholding
FL	Fuel L.U.S.T. Tax (Leaking Underground Storage Tank)
FR	Franchise Tax Tax imposed by municipality for the right to provide service
FS	Fuel Spill Tax
FT	Federal Excise Tax
GR	Gross Receipts Tax
GS	Goods and Services Tax Canadian value-added tax
HS	Public Health and Education Tax Canadian tax levied to fund public care and education
HT	Handicap Tax Tax assessed to assist the handicapped
HZ	Hazardous Waste Tax
LB	Labor By Trade Tax
LO	Local Tax (Not Sales Tax) Service tax imposed on a local level
LS	State and Local Sales Tax
LT	Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level)
LU	Leaky Underground Storage Tank (LUST) Tax (federal) Leaky Underground Storage Tank (LUST) Tax (federal); tax imposed in the U.S., at the federal level, for clean-up of leaky underground storage tanks
LV	Leaky Underground Storage Tank (LUST) Tax (state)

	Leaky Underground Storage Tank (LUST) Tax (state); tax imposed in the U.S., at the state level, for clean-up of leaky underground storage tanks
MA	Material Tax
MN	Minimum Tax
MP	Municipal Tax
	Service tax imposed by a municipality
MS	Miscellaneous State Tax
MT	Metropolitan Transit Tax
OH	Other Taxes
OT	Occupational Tax
	Tax imposed on telecommunication companies for the right to provide service
PG	State or Provincial Tax on Goods
PS	State or Provincial Tax on Services
SA	State or Provincial Fuel Tax
SB	Secondary Percentage Tax
SC	School Tax
	Tax collection by taxing authority for schools
SE	State Excise Tax
	Usage tax imposed by state of provincial government
SF	Superfund Tax
	Superfund is a U.S. government fund created for the clean up or eradication of sites at which toxic waste, hazardous to the environment, has been dumped
SL	State and Local Tax
	State and Local tax funds, exclusive of State and Local Sales tax
SP	State/Provincial Tax
	State tax levied which excludes sales or excise taxes
SR	State Rental Tax
	Levied by a state government against the periodic fee paid by a customer in return for the right to use the property of another party
SS	State Tax on Specific Labor
ST	State Sales Tax
SU	Sales and Use Tax
	Tax on Equipment and Service provided
SX	Enhanced 911 - State Excise Tax
	A tax imposed to pay for enhanced 911 services such as automatic call identification
T1	Pre-threshold Tax
T2	Post Threshold Tax
TD	Telecommunications Device for the Deaf (TDD) Service Excise Tax
	Tax imposed to recover the cost of providing TDD equipment
TT	Telecommunications Tax
	Tax imposed on telecommunications companies for the right to provide service or usage tax imposed. (This could be an excise tax)
TX	All Taxes
	Total of all applicable taxes
UL	License Tax
	Tax used to report the amount of license tax which is passed to the consumer

UT	Utility Users' Tax City or county tax for natural gas usage that is imposed upon customers
VA	Value Added Tax
WS	Well Service
ZA	911-City Tax Tax levied to recover the cost of providing 911 emergency services within a city
ZB	911-County Tax Tax levied to recover the cost of providing 911 emergency service within a county
ZC	911-Excise Tax Usage tax imposed to recover the cost of 911 service
ZD	911-State Tax Tax levied to recover the cost of providing 911 emergency service within a State
ZE	911-Tax Tax to recover the cost of 911 service
ZZ	Mutually Defined

**TXI02 782 Monetary Amount X R 1/18 O**  
Monetary amount

**TXI03 954 Percent X R 1/10 O**  
Percentage expressed as a decimal

**TXI04 955 Tax Jurisdiction Code Qualifier X ID 2/2 O**  
Code identifying the source of the data used in tax jurisdiction code

VD Vendor defined

**TXI05 956 Tax Jurisdiction Code X AN 1/10 O**  
Code identifying the taxing jurisdiction

Category attribute value in <TaxDetail.. will be generated with regard to tax location.

Canada tax location should be specified as follows:

Ontario	.on.ca
Quebec	.qc.ca
Nova Scotia	.ns.ca
New Brunswick	.nb.ca
Manitoba	.mb.ca
British Columbia	.bc.ca
Prince Edward Island	.pe.ca
Saskatchewan	.sk.ca
Alberta	.ab.ca
Newfoundland and Labrador	.nf.ca

In case, the supplier specifies the Canada tax location in a format, other than in the format domain names listed above, the tax location will be treated as the United States (location), and will be processed accordingly.

**TXI06 441 Tax exempt code O ID 1/1 O**

Code identifying the tax exempt code

Maps to TaxDetail@exemptDetail

TXI\*...\*0\*..~



```
produces
<TaxDetail ... exemptDetail="zeroRated" >

TXI*...*2*..~
produces
<TaxDetail ... exemptDetail="exempt" >
```

- 0 No Tax
- 2 Exempt Tax

**TXI08      828      Dollar Basis For Percent      O   R 1/9      O**  
Dollar basis to be used in the percent calculation of the allowance, charge or tax

**TXI09      325      Tax Identification Number      O   AN      1/20**  
Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number.

```
Maps to TaxDetail@category

TXI*   *myCategory~
produces
<TaxDetail ... category="myCategory" >
```

Category assigned for tax. Used for providing custom tax categories to override the standard tax categories.>

<b>Segment:</b>	<b>N1</b> Name
<b>Position:</b>	240
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To identify a party by type of organization, name, and code
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of N102 or N103 is required.</li> <li>2 If either N103 or N104 is present, then the other is required.</li> </ol>
<b>Semantic Notes:</b>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 This segment, used alone, provides the most efficient method of providing organizational identification. To obtain this efficiency the "ID Code" (N104) must provide a key to the table maintained by the transaction processing party.</li> <li>2 N105 and N106 further define the type of entity in N101.</li> </ol>
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	<p>The three optional N1 groups are used to build an &lt;InvoiceDetailLineShipping&gt;.</p> <p>&lt;InvoiceDetailShipping&gt; can be at the header level or &lt;InvoiceDetailLineShipping&gt; at the line item level, but not both.</p> <p>N101=SF (Ship From) and ST (Ship To) are both required. If N103="92", then N104 is captured as the addressID of the ShipFrom/ShipTo, forming &lt;Contact role="..." addressID="...."&gt;</p> <p>REF01=CN (Carrier's Reference Number) is used only with N101=CA (Carrier). &lt;DocumentReference&gt; for the ASN comes from REF @2/120, with REF01="MA" (Ship Notice / Manifest). Ship Notice date comes from DTM @2/150, with DTM01=111 (Ship Notice / Manifest).</p> <p>The required &lt;Money&gt; comes from SAC05 @2/180, with SAC01=C and SAC02=G830.</p> <p>See notes on N1 group syntax usage for building &lt;PostalAddress&gt; in the header level group. The same rules apply.</p> <p>See separate documentation for an example of constructing &lt;InvoiceDetailLineShipping&gt;.</p>

## Data Element Summary

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
N101	98	Entity Identifier Code	M ID 2/3	M
		Code identifying an organizational entity, a physical location, property or an individual		
		CA Carrier		
		SF Ship From		
		ST Ship To		
N102	93	Name	X AN 1/60	M
		Free-form name		
N103	66	Identification Code Qualifier	X ID 1/2	O
		Code designating the system/method of code structure used for Identification Code (67)		
		1 D-U-N-S Number, Dun & Bradstreet		
		2 Standard Carrier Alpha Code (SCAC)		
		4 International Air Transport Association (IATA)		
		92 Assigned by Buyer or Buyer's Agent		

<b>N104</b>	<b>67</b>	<b>Identification Code</b>	<b>X</b>	<b>AN 2/80</b>	<b>O</b>
		Code identifying a party or other code			

<b>Segment:</b>	<b>N2 Additional Name Information</b>
<b>Position:</b>	250
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	2
<b>Purpose:</b>	To specify additional names or those longer than 35 characters in length
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional

Data Element Summary					
Ref.	Data	Name	Base		User
<u>Des.</u>	<u>Element</u>		<u>Attributes</u>		<u>Attributes</u>
N201	93	Name	M	AN 1/60	M
		Free-form name			
N202	93	Name	O	AN 1/60	O
		Free-form name			

**Segment:** **N3** **Address Information**  
**Position:** 260  
**Loop:** N1 Optional  
**Level:** Detail  
**Usage:** Optional  
**Max Use:** 2  
**Purpose:** To specify the location of the named party  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Usage Notes:** Used/Optional

Data Element Summary				
Ref. <u>Des.</u>	Data <u>Element</u>	<u>Name</u>	Base <u>Attributes</u>	User <u>Attributes</u>
N301	166	Address Information Address information	M AN 1/55	M
N302	166	Address Information Address information	O AN 1/55	O

<b>Segment:</b>	<b>N4 Geographic Location</b>
<b>Position:</b>	270
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	1
<b>Purpose:</b>	To specify the geographic place of the named party
<b>Syntax Notes:</b>	1 If N406 is present, then N405 is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	1 A combination of either N401 through N404, or N405 and N406 may be adequate to specify a location. 2 N402 is required only if city name (N401) is in the U.S. or Canada.
<b>Usage Notes:</b>	Used/Optional

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
<b>N401</b>	<b>19</b>	<b>City Name</b> Free-form text for city name	<b>O AN 2/30</b>	<b>M</b>
<b>N402</b>	<b>156</b>	<b>State or Province Code</b> Code (Standard State/Province) as defined by appropriate government agency	<b>O ID 2/2</b>	<b>O</b>
<b>N403</b>	<b>116</b>	<b>Postal Code</b> Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	<b>O ID 3/15</b>	<b>O</b>
<b>N404</b>	<b>26</b>	<b>Country Code</b> Code identifying the country	<b>O ID 2/3</b>	<b>M ID 2/2</b>

<b>Segment:</b>	<b>REF</b> <b>Reference Identification</b>
<b>Position:</b>	280
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	12
<b>Purpose:</b>	To specify identifying information
<b>Syntax Notes:</b>	<b>1</b> At least one of REF02 or REF03 is required. <b>2</b> If either C04003 or C04004 is present, then the other is required. <b>3</b> If either C04005 or C04006 is present, then the other is required.
<b>Semantic Notes:</b>	<b>1</b> REF04 contains data relating to the value cited in REF02.
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional

Data Element Summary				
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
REF01	128	Reference Identification Qualifier Code qualifying the Reference Identification CN Carrier's Reference Number (PRO/Invoice)	M ID 2/3	M
REF02	127	Reference Identification Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	X AN 1/30	O
REF03	352	Description A free-form description to clarify the related data elements and their content	X AN 1/80	O

<b>Segment:</b>	<b>PER Administrative Communications Contact</b>
<b>Position:</b>	290
<b>Loop:</b>	N1 Optional
<b>Level:</b>	Detail
<b>Usage:</b>	Optional
<b>Max Use:</b>	3
<b>Purpose:</b>	To identify a person or office to whom administrative communications should be directed
<b>Syntax Notes:</b>	<b>1</b> If either PER03 or PER04 is present, then the other is required. <b>2</b> If either PER05 or PER06 is present, then the other is required. <b>3</b> If either PER07 or PER08 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	See notes on header level PER @1/120.

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
PER01	366	<b>Contact Function Code</b>	<b>M ID 2/2</b>	<b>M</b>
		Code identifying the major duty or responsibility of the person or group named		
		CN General Contact		
PER02	93	<b>Name</b>	<b>O AN 1/60</b>	<b>O</b>
		Free-form name		
PER03	365	<b>Communication Number Qualifier</b>	<b>X ID 2/2</b>	<b>O</b>
		Code identifying the type of communication number		
		EM Electronic Mail		
		FX Facsimile		
		TE Telephone		
		UR Uniform Resource Locator (URL)		
PER04	364	<b>Communication Number</b>	<b>X AN 1/80</b>	<b>O</b>
		Complete communications number including country or area code when applicable		
PER05	365	<b>Communication Number Qualifier</b>	<b>X ID 2/2</b>	<b>O</b>
		Code identifying the type of communication number		
		EM Electronic Mail		
		FX Facsimile		
		TE Telephone		
		UR Uniform Resource Locator (URL)		
PER06	364	<b>Communication Number</b>	<b>X AN 1/80</b>	<b>O</b>
		Complete communications number including country or area code when applicable		
PER07	365	<b>Communication Number Qualifier</b>	<b>X ID 2/2</b>	<b>O</b>
		Code identifying the type of communication number		
		EM Electronic Mail		
		FX Facsimile		
		TE Telephone		
		UR Uniform Resource Locator (URL)		
PER08	364	<b>Communication Number</b>	<b>X AN 1/80</b>	<b>O</b>
		Complete communications number including country or area code when applicable		



<b>Segment:</b>	<b>TDS</b>	<b>Total Monetary Value Summary</b>
<b>Position:</b>	010	
<b>Loop:</b>		
<b>Level:</b>	Summary	
<b>Usage:</b>	Mandatory	
<b>Max Use:</b>	1	
<b>Purpose:</b>	To specify the total invoice discounts and amounts	
<b>Syntax Notes:</b>		
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TDS01 is the total amount of invoice (including charges, less allowances) before terms discount (if discount is applicable).</li> <li>2 TDS02 indicates the amount upon which the terms discount amount is calculated.</li> <li>3 TDS03 is the amount of invoice due if paid by terms discount due date (total invoice or installment amount less cash discount).</li> <li>4 TDS04 indicates the total amount of terms discount.</li> </ol>	
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 TDS02 is required if the dollar value subject to discount is not equal to the dollar value of TDS01.</li> </ol>	
<b>Notes:</b>	<p>Example: TDS*37702~</p> <p>This shows an invoice total gross amount of \$377.02.</p> <p>This is a mandatory segment. The first element is mandatory, and all that we need here. This is defined by X12 to be the invoice total including charges but less allowances, and before a terms discount. This is the supplier's invoice total within those parameters. It is not necessarily the total amount that the buyer is expected to pay. The final amount is shown in AMT (3/035), where AMT01="BAP".</p> <p>All four elements can be used, but only TDS01 is captured.</p>	

## Data Element Summary

<b>Ref.</b>	<b>Data</b>	<b>Name</b>	<b>Base</b>	<b>User</b>
<b>Des.</b>	<b>Element</b>	<b>Amount</b>	<b>Attributes</b>	<b>Attributes</b>
<b>TDS01</b>	<b>610</b>	Monetary amount	<b>M N2 1/15</b>	<b>M</b>
		Mapping target:		
		<pre>&lt;InvoiceDetailSummary&gt;   &lt;GrossAmount&gt;     &lt;Money currency=CUR02 (@1/040)&gt;TDS01&lt;/Money&gt;</pre>		
<b>TDS02</b>	<b>610</b>	<b>Amount</b>	<b>O N2 1/15</b>	<b>O</b>
		Monetary amount		
<b>TDS03</b>	<b>610</b>	<b>Amount</b>	<b>O N2 1/15</b>	<b>O</b>
		Monetary amount		
<b>TDS04</b>	<b>610</b>	<b>Amount</b>	<b>O N2 1/15</b>	<b>O</b>
		Monetary amount		

**Segment:** **AMT** Monetary Amount  
**Position:** 035  
**Loop:**  
**Level:** Summary  
**Usage:** Optional (Must Use)  
**Max Use:** >1  
**Purpose:** To indicate the total monetary amount  
**Syntax Notes:**  
**Semantic Notes:**  
**Comments:**  
**Usage Notes:**  
**Notes:**

Mandatory  
Examples:

AMT\*1\*550\*D~  
AMT\*N\*475\*D~  
AMT\*3\*90\*C~  
AMT\*BAP\*385\*D~  
AMT\*GW\*35\*D~  
AMT\*EC\*40\*D~  
AMT\*ZZ \*300\*D~

produces...

```
<InvoiceDetailSummary>
  <SubtotalAmount>
    <Money currency="USD">550</Money>
  </SubtotalAmount>
  <NetAmount>
    <Money currency="USD">475</Money>
  </NetAmount>
  <DepositAmount>
    <Money currency="USD">-90</Money>
  </DepositAmount>
  <DueAmount>
    <Money currency="USD">375</Money>
  </DueAmount>
  <TotalCharges>
    <Money currency="USD">35</Money>
  </TotalCharges>
  <TotalAllowances>
    <Money currency="USD">40</Money>
  </TotalAllowances>
  <TotalAmountWithoutTax>
    <Money currency="USD">300</Money>
  </TotalAmountWithoutTax>

```

\* Note that <Tax> is a required element in <InvoiceDetailSummary>, but is not shown in this example.

\* Deposit Amount, AMT\*3, is optional. The other three are required.

Data Element Summary				
Ref.	Data	Name	Base	User
Des.	Element		Attributes	Attributes
AMT01	522	Amount Qualifier Code	M ID 1/3	M
		Code to qualify amount		
		1	Line Item Total	

		<p>REQUIRED: Total of all line item &lt;SubtotalAmount&gt; elements.</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;SubtotalAmount&gt;     AMT02</pre>
3	Deposit Total	<p>Optional: Total deposit/prepayment amount.</p> <p>Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;DepositAmount&gt;     &lt;Money currency=CUR02 (@1/040)&gt;AMT02&lt;/Money&gt;</pre>
BAP	Total Amount Due	<p>REQUIRED: Total amount due and payable.</p> <p>It equals NetAmount (AMT01=N) minus DepositAmount (AMT01=3).</p> <p>Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;DueAmount&gt;     &lt;Money currency=CUR02 (@1/040)&gt;AMT02&lt;/Money&gt;</pre>
N	Net	<p>Indicates the value remaining after all deductions and adjustments have been made</p> <p>REQUIRED: Gross Amount (TDS01) minus Discounts (SAC05, SAC01=A, SAC02=C310)</p> <p>Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;NetAmount&gt;     &lt;Money currency=CUR02 (@1/040)&gt;AMT02&lt;/Money&gt;</pre>
GW	Total Charges	<p>Represents the total sum of all the charges</p> <p>Note :</p> <p>This is mandatory if atleast one AdditionalCost (SAC*C*...) exists.</p> <p>This value is ignored if no &lt;AdditionalCost&gt; (SAC*C*...) exists.</p> <p>Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;TotalCharges&gt;     &lt;Money currency=CUR02 (@1/040)&gt;AMT02&lt;/Money&gt;</pre>
EC	Total Allowances	<p>Represents the total sum of all the allowances</p> <p>Note:</p> <p>This is mandatory if atleast one AdditionalDeduction (SAC*A*...) exists.</p> <p>This value is ignored if no &lt;AdditionalDeduction&gt; (SAC*A*...) exists.</p> <p>Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;TotalAllowances&gt;</pre>

		<div>&lt;Money currency=CUR02 (@1/040)&gt;AMT02&lt;/Money&gt;</div>	
ZZ		Total Amount Without Tax	
		Represents the sum of the SubTotal, Charges (including special handling charges and shipping charges), and Allowances (including discounts). This does not include taxes.	
		Mapping target:	
		<div>&lt;InvoiceDetailSummary&gt; &lt;TotalAmountWithoutTax&gt; &lt;Money currency=CUR02 (@1/040)&gt;AMT02&lt;/Money&gt;</div>	
AMT02	782	Monetary Amount	M R 1/18 M
		Monetary amount	

<b>Segment:</b>	<b>SAC</b> Service, Promotion, Allowance, or Charge Information
<b>Position:</b>	040
<b>Loop:</b>	SAC Optional (Recommended)
<b>Level:</b>	Summary
<b>Usage:</b>	Optional (Recommended)
<b>Max Use:</b>	1
<b>Purpose:</b>	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of SAC02 or SAC03 is required.</li> <li>2 If either SAC03 or SAC04 is present, then the other is required.</li> <li>3 If either SAC06 or SAC07 is present, then the other is required.</li> <li>4 If either SAC09 or SAC10 is present, then the other is required.</li> <li>5 If SAC11 is present, then SAC10 is required.</li> <li>6 If SAC13 is present, then at least one of SAC02 or SAC04 is required.</li> <li>7 If SAC14 is present, then SAC13 is required.</li> <li>8 If SAC16 is present, then SAC15 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 If SAC01 is "A" or "C", then at least one of SAC05, SAC07, or SAC08 is required.</li> <li>2 SAC05 is the total amount for the service, promotion, allowance, or charge. If SAC05 is present with SAC07 or SAC08, then SAC05 takes precedence.</li> <li>3 SAC08 is the allowance or charge rate per unit.</li> <li>4 SAC10 and SAC11 is the quantity basis when the allowance or charge quantity is different from the purchase order or invoice quantity. SAC10 and SAC11 used together indicate a quantity range, which could be a dollar amount, that is applicable to service, promotion, allowance, or charge.</li> <li>5 SAC13 is used in conjunction with SAC02 or SAC04 to provide a specific reference number as identified by the code used.</li> <li>6 SAC14 is used in conjunction with SAC13 to identify an option when there is more than one option of the promotion.</li> <li>7 SAC16 is used to identify the language being used in SAC15.</li> </ol>
<b>Comments:</b>	<ol style="list-style-type: none"> <li>1 SAC04 may be used to uniquely identify the service, promotion, allowance, or charge. In addition, it may be used in conjunction to further the code in SAC02.</li> <li>2 In some business applications, it is necessary to advise the trading partner of the actual dollar amount that a particular allowance, charge, or promotion was based on to reduce ambiguity. This amount is commonly referred to as "Dollar Basis Amount". It is represented in the SAC segment in SAC10 using the qualifier "DO" - Dollars in SAC09.</li> </ol>
<b>Usage Notes:</b>	Recommended
<b>Notes:</b>	<p>See specific examples based on SAC02 value.</p> <p>Most summary level counterparts in &lt;InvoiceDetailRequest&gt; do not have a &lt;Description&gt; element. The only exception is the &lt;Tax&gt; element from SAC*C*H850*..., where it does have a &lt;Description&gt;.</p> <p>Note that SAC*C*H850 for summary tax total is recommended to use. If it is not used, then Ariba Network will default the tax total amount to zero and generate cXML tax element with amount as zero.</p> <p>Note also SAC16 is required if SAC15 is used.</p> <p>The following SAC codes are supported as Modification Allowances:</p> <p>B660 C300 C310 H970 I530</p> <p>Example: SAC*A*C300***10000*****Fragile packaging*en~</p>

```

produces...
<InvoiceHeaderModifications>
<Modification>
<AdditionalDeduction>
<DeductionAmount>
<Money currency="USD">100</Money>
</DeductionAmount>
</AdditionalDeduction>
<ModificationDetail name="Discount-Special">
<Description xml:lang="en">Fragile Packaging</Description>
</ModificationDetail>
</Modification>
</InvoiceHeaderModifications>

```

The following SAC codes are supported as Modification Charges.

```

A040
A050
A060
A170
A520
A960
D180
D240
D500
D980
G580
G821

```

Example:

SAC\*C\*G821\*\*\*10000\*\*\*\*\*Fragile packaging\*en~

```

produces...
<InvoiceHeaderModifications>
<Modification>
<AdditionalCost>
<Money currency="USD">100</Money>
</AdditionalCost>
<ModificationDetail name="Shipping">
<Description xml:lang="en">Fragile Packaging</Description>
</ModificationDetail>
</Modification>
</InvoiceHeaderModifications>

```

#### Data Element Summary

Ref. Des.	Data Element	Name	Base Attributes	User Attributes
SAC01	248	<b>Allowance or Charge Indicator</b>	M ID 1/1	M
		Code which indicates an allowance or charge for the service specified		
		A Allowance		
		C Charge		
		N No Allowance or Charge		
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	X ID 4/4	O
		Code identifying the service, promotion, allowance, or charge		
		A040 Access Charge		
		A050 AccountNumberCorrectionCharge		
		A060 AcidBattery		

A170	Adjustment
A520	Charge
A960	Carrier
B660	Contract Allowance
C300	Discount-Special
C310	Discount
<p>One optional occurrence of SAC*A*C310*... builds an &lt;InvoiceDetailDiscount&gt; at the summary level.</p> <p>Requires: SAC05 Uses: SAC07, (SAC06="3")</p> <p>Since SAC06=3, the basis for the discount is implied to be TDS01. Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;InvoiceDetailDiscount percentageRate=SAC07&gt;     &lt;Money currency=CUR02 (@1/040)&gt;CUR05&lt;/Money&gt;   &lt;/InvoiceDetailDiscount&gt;</pre>	
D180	FreightBasedOnDollarMinimum
D240	Freight
D500	Handling
D980	Insurance
G580	Royalties
G821	Shipping
G830	Shipping and Handling
<p>Produces total &lt;ShippingAmount&gt;, not &lt;InvoiceDetailShipping&gt;</p> <p>Requires: SAC05 only. Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;ShippingAmount&gt;     &lt;Money currency=CUR02 (@1/040)&gt;SAC05&lt;/Money&gt;   &lt;/ShippingAmount&gt;</pre>	
H090	Special Handling
<p>See notes on line item SAC @2/180, SAC02=H090.</p> <p>Requires: SAC05 only. Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;SpecialHandlingAmount&gt;     &lt;Money currency=CUR02 (@1/040)&gt;SAC05&lt;/Money&gt;   &lt;/SpecialHandlingAmount&gt;</pre>	
H850	Tax
<p>REQUIRED: See notes on &lt;Tax&gt; at the line item SAC @2/180. Mapping target:</p> <pre>&lt;InvoiceDetailSummary&gt;   &lt;Tax&gt;</pre>	
H970	Allowance
I530	Volume Discount

<b>SAC05</b>	<b>610</b>	<b>Amount</b>	<b>O</b>	<b>N2 1/15</b>	<b>O</b>
		Monetary amount			
<b>SAC06</b>	<b>378</b>	<b>Allowance/Charge Percent Qualifier</b>	<b>X</b>	<b>ID 1/1</b>	<b>O</b>

		Code indicating on what basis allowance or charge percent is calculated			
		3	Discount/Gross		
<b>SAC07</b>	<b>332</b>	<b>Percent</b>	<b>X</b>	<b>R 1/6</b>	<b>O</b>
		Percent expressed as a percent			
<b>SAC15</b>	<b>352</b>	<b>Description</b>	<b>X</b>	<b>AN 1/80</b>	<b>O</b>
		A free-form description to clarify the related data elements and their content			
		SAC15 is captured only with SAC*C*H850*... Other codes are welcome to provide a description in SAC15, but it is ignored.			
<b>SAC16</b>	<b>819</b>	<b>Language Code</b>	<b>O</b>	<b>ID 2/3</b>	<b>O ID 2/2</b>
		Code designating the language used in text, from a standard code list maintained by the International Standards Organization (ISO 639)			



<b>Segment:</b>	<b>TXI Tax Information</b>
<b>Position:</b>	050
<b>Loop:</b>	SAC Optional (Recommended)
<b>Level:</b>	Summary
<b>Usage:</b>	Optional
<b>Max Use:</b>	10
<b>Purpose:</b>	To specify tax information
<b>Syntax Notes:</b>	<ol style="list-style-type: none"> <li>1 At least one of TXI02 TXI03 or TXI06 is required.</li> <li>2 If either TXI04 or TXI05 is present, then the other is required.</li> <li>3 If TXI08 is present, then TXI03 is required.</li> </ol>
<b>Semantic Notes:</b>	<ol style="list-style-type: none"> <li>1 TXI02 is the monetary amount of the tax.</li> <li>2 TXI03 is the tax percent expressed as a decimal.</li> <li>3 TXI07 is a code indicating the relationship of the price or amount to the associated segment.</li> </ol>
<b>Comments:</b>	
<b>Usage Notes:</b>	Used/Optional
<b>Notes:</b>	<p>TXI is used to supply &lt;TaxDetail&gt; only when SAC01="C" and SAC02="H850".</p> <p>&lt;TaxDetail&gt; has four attributes: purpose, category, percentageRate, and isVatRecoverable. The Ariba Invoicing module supports purpose="tax" and category as one of "sales", "gst", "vat", "qst", "hst", "pst" or "other".</p> <p>Category will be generated with regard to tax jurisdiction code (TXI05) and tax type code (TXI01)</p> <p>TXI allows all TXI01 codes. A many to one mapping is performed on TXI01 with regard to TXI05 to the seven category values cited:</p> <p>If TXI05 is not a Canada location, and if TXI01 is not PS, PG or ST, then the category will be generated as</p> <p>"sales": CS, CP, LT, ST  "gst": CG, CV, GS  "vat": VA  "other": everything else</p> <p>Else If TXI05 is Canada location and if TXI01 is either PS, PG or ST, then category will be generated as</p> <p>"qst": If TXI05 is '.qc.ca'  "hst": If TXI05 is '.ns.ca', '.nf.ca', '.nb.ca', or '.on.ca'  "pst": for all other Canada tax locations.</p> <p>Note: This will be overridden if TXI09 is used.</p> <p>The percentage attribute captures TXI03, and the isVatRecoverable attribute is not mapped.</p> <p>The jurisdiction code must be assigned by the supplier and is captured by &lt;TaxLocation&gt;. The final &lt;Description&gt; is not offered by TXI, so it captures the X12 description for the TXI01 code.</p> <p>Example:</p> <p>TXI*ST*4538*8.25*VD*California***550~  TXI*HZ*962*1.75*VD*California***550~</p>

produces...

```
<TaxDetail purpose="tax" category="sales" percentageRate="8.25">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">4538</Money>
  </TaxAmount>
  <TaxLocation>California</TaxLocation>
  <Description xml:lang="en">State Sales Tax</Description>
</TaxDetail>
<TaxDetail purpose="tax" category="other" percentageRate="1.75">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">9.62</Money>
  </TaxAmount>
  <TaxLocation>California</TaxLocation>
  <Description xml:lang="en">Hazardous Waste Tax</Description>
</TaxDetail>
```

TXI\*PG\*4538\*8.25\*VD\*.qc.ca\*\*\*550~

produces...

```
<TaxDetail purpose="tax" category="qst" percentageRate="8.25">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">4538</Money>
  </TaxAmount>
  <TaxLocation> xml:lang = "en">.qc.ca </TaxLocation>
  <Description xml:lang="en"> State or Provincial Tax on Goods</Description>
</TaxDetail>
```

TXI\*GS\*4538\*8.25\*VD\*.qc.ca\*\*\*550~

When the location is Canada and the tax type code (TX101) is GS, it generates a category called "gst"

produces ....

```
<TaxDetail purpose="tax" category="gst" percentageRate="8.25">
  <TaxableAmount>
    <Money currency="USD">550</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency="USD">4538</Money>
  </TaxAmount>
  <TaxLocation> xml:lang = "en">.qc.ca</TaxLocation>
  <Description xml:lang="en">Goods and Sales Tax</Description>
</TaxDetail>
```

\* Note that TXI01=TX implies "All Taxes", so if used should be alone.

Mapping target:

```
<TaxDetail purpose="tax" category=(sales | gst | vat | other)
  percentageRate=TXI03 isVatRecoverable=(not mapped)>
  <TaxableAmount>
    <Money currency=CUR02>TXI08</Money>
  </TaxableAmount>
  <TaxAmount>
    <Money currency=CUR02>TXI02</Money>
  </TaxAmount>
  <TaxLocation xml:lang=(defaulted)>TXI05</TaxLocation>
  <Description xml:lang=(defaulted)>(Description of TXI01 code from
X12 standard)</Description>
</TaxDetail>
```

\*Note: TXI for an SAC of type Modification:  
If TXI01=TX or ZZ , it is mapped to  
<Tax>, otherwise the TXI is mapped to <TaxDetail>.

EDI:

Input:

```
SAC*A*I530***10000*****2*2*Volume Discount Description*en~
TXI*GS*11.13*7*VD*CA***159~
TXI*VA*7.21*5*VD*DE***144.2~
TXI*PS*18.55*8*VD*ON***231.87~
TXI*ZZ*54.24*11.25*VD*Nobody***482.13~
```

cXML:

```
<Modification>
<AdditionalDeduction>
<DeductionAmount>
<Money currency="USD">100</Money>
</DeductionAmount>
</AdditionalDeduction>
<Tax>
<Money currency="USD">54.24</Money>
<Description xml:lang="tr"></Description>
<TaxDetail category="gst" percentageRate="7" purpose="tax">
<TaxableAmount>
<Money currency="USD">159</Money>
</TaxableAmount>
<TaxAmount>
<Money currency="USD">11.13</Money>
</TaxAmount>
<TaxLocation xml:lang="tr">CA</TaxLocation>
<Description xml:lang="en">Goods and Services Tax</Description>
</TaxDetail>
<TaxDetail category="vat" percentageRate="5" purpose="tax">
<TaxableAmount>
<Money currency="USD">144.2</Money>
</TaxableAmount>
<TaxAmount>
<Money currency="USD">7.21</Money>
</TaxAmount>
<TaxLocation xml:lang="tr">DE</TaxLocation>
<Description xml:lang="en">Value Added Tax</Description>
</TaxDetail>
<TaxDetail category="other" percentageRate="8" purpose="tax">
<TaxableAmount>
<Money currency="USD">231.87</Money>
</TaxableAmount>
<TaxAmount>
```

```

<Money currency="USD">18.55</Money>
</TaxAmount>
<TaxLocation xml:lang="tr">ON</TaxLocation>
<Description xml:lang="en">State or Provincial Tax on
Services</Description>
</TaxDetail>
</Tax>
<ModificationDetail name="Volume Discount">
<Description xml:lang="en">Volume Discount
Description</Description>
</ModificationDetail>
</Modification>

```

**Data Element Summary**

<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
TXI01	963	<b>Tax Type Code</b>	<b>M ID 2/2</b>	<b>M</b>
		Code specifying the type of tax		
		AA	Stadium Tax	
		AB	Surtax	
		AT	Assessment	
		BP	Business Privilege Tax	
			Tax imposed on non-American Indian businesses for the privilege of conducting business on an American Indian reservation	
		CA	City Tax	
			Service Tax imposed by City	
		CB	Threshold Tax	
		CG	Federal Value-added Tax (GST) on Goods	
		CI	City Rental Tax	
			Levied by a city government against the periodic fee paid by a customer in return for the right to use the property of another party	
		CP	County/Parish Sales Tax	
		CR	County Rental Tax	
			Levied by a county government against the periodic fee paid by a customer in return for the right to use the property of another party	
		CS	City Sales Tax	
		CT	County Tax	
		CV	Federal Value-added Tax (GST) on Services	
		DL	Default Labor Tax	
		EQ	Equipment Tax	
		ET	Energy Tax	
			Tax applied to the utility and petroleum industries	
		EV	Environmental Tax	
		F1	FICA Tax	
		F2	FICA Medicare Tax	
		F3	FICA Social Security Tax	
		FD	Federal Tax	
			Usage tax imposed by federal (US and Canadian) government	
		FF	Fuel Super Fund Tax	
		FI	Federal Income Tax Withholding	
		FL	Fuel L.U.S.T. Tax (Leaking Underground Storage Tank)	
		FR	Franchise Tax	
			Tax imposed by municipality for the right to provide service	

FS	Fuel Spill Tax
FT	Federal Excise Tax
GR	Gross Receipts Tax
GS	Goods and Services Tax Canadian value-added tax
HS	Public Health and Education Tax Canadian tax levied to fund public care and education
HT	Handicap Tax Tax assessed to assist the handicapped
HZ	Hazardous Waste Tax
LB	Labor By Trade Tax
LO	Local Tax (Not Sales Tax) Service tax imposed on a local level
LS	State and Local Sales Tax
LT	Local Sales Tax (All Applicable Sales Taxes by Taxing Authority Below the State Level)
LU	Leaky Underground Storage Tank (LUST) Tax (federal) Leaky Underground Storage Tank (LUST) Tax (federal); tax imposed in the U.S., at the federal level, for clean-up of leaky underground storage tanks
LV	Leaky Underground Storage Tank (LUST) Tax (state) Leaky Underground Storage Tank (LUST) Tax (state); tax imposed in the U.S., at the state level, for clean-up of leaky underground storage tanks
MA	Material Tax
MN	Minimum Tax
MP	Municipal Tax Service tax imposed by a municipality
MS	Miscellaneous State Tax
MT	Metropolitan Transit Tax
OH	Other Taxes
OT	Occupational Tax Tax imposed on telecommunication companies for the right to provide service
PG	State or Provincial Tax on Goods
PS	State or Provincial Tax on Services
SA	State or Provincial Fuel Tax
SB	Secondary Percentage Tax
SC	School Tax Tax collection by taxing authority for schools
SE	State Excise Tax Usage tax imposed by state of provincial government
SF	Superfund Tax Superfund is a U.S. government fund created for the clean up or eradication of sites at which toxic waste, hazardous to the environment, has been dumped
SL	State and Local Tax State and Local tax funds, exclusive of State and Local Sales tax
SP	State/Provincial Tax State tax levied which excludes sales or excise taxes
SR	State Rental Tax

		Levied by a state government against the periodic fee paid by a customer in return for the right to use the property of another party
SS		State Tax on Specific Labor
ST		State Sales Tax
SU		Sales and Use Tax
		Tax on Equipment and Service provided
SX		Enhanced 911 - State Excise Tax
		A tax imposed to pay for enhanced 911 services such as automatic call identification
T1		Pre-threshold Tax
T2		Post Threshold Tax
TD		Telecommunications Device for the Deaf (TDD) Service Excise Tax
		Tax imposed to recover the cost of providing TDD equipment
TT		Telecommunications Tax
		Tax imposed on telecommunications companies for the right to provide service or usage tax imposed. (This could be an excise tax)
TX		All Taxes
		Total of all applicable taxes
UL		License Tax
		Tax used to report the amount of license tax which is passed to the consumer
UT		Utility Users' Tax
		City or county tax for natural gas usage that is imposed upon customers
VA		Value Added Tax
WS		Well Service
ZA		911-City Tax
		Tax levied to recover the cost of providing 911 emergency services within a city
ZB		911-County Tax
		Tax levied to recover the cost of providing 911 emergency service within a county
ZC		911-Excise Tax
		Usage tax imposed to recover the cost of 911 service
ZD		911-State Tax
		Tax levied to recover the cost of providing 911 emergency service within a State
ZE		911-Tax
		Tax to recover the cost of 911 service
ZZ		Mutually Defined

<b>TXI02</b>	<b>782</b>	<b>Monetary Amount</b>	<b>X</b>	<b>R 1/18</b>	<b>O</b>
		Monetary amount			
<b>TXI03</b>	<b>954</b>	<b>Percent</b>	<b>X</b>	<b>R 1/10</b>	<b>O</b>
		Percentage expressed as a decimal			
<b>TXI04</b>	<b>955</b>	<b>Tax Jurisdiction Code Qualifier</b>	<b>X</b>	<b>ID 2/2</b>	<b>O</b>
		Code identifying the source of the data used in tax jurisdiction code			
		Refer to 004010 Data Element Dictionary for acceptable code values.			
<b>TXI05</b>	<b>956</b>	<b>Tax Jurisdiction Code</b>	<b>X</b>	<b>AN 1/10</b>	<b>O</b>
		Code identifying the taxing jurisdiction			
<b>TXI06</b>	<b>441</b>	<b>Tax exempt code</b>	<b>O</b>	<b>ID 1/1</b>	<b>O</b>
		Code identifying the tax exempt code			

Maps to TaxDetail@exemptDetail

TXI\*...\*0\*..~  
produces  
<TaxDetail ... exemptDetail="zeroRated" >

TXI\*...\*2\*..~  
produces  
<TaxDetail ... exemptDetail="exempt" >

0                      No Tax  
2                      Exempt Tax

**TXI08            828    Dollar Basis For Percent                      O   R 1/9            O**  
Dollar basis to be used in the percent calculation of the allowance, charge or tax

**TXI09            325    Tax Identification Number                      O   AN            1/20**  
Number assigned to a purchaser (buyer, orderer) by a taxing jurisdiction (state, county, etc.); often called a tax exemption number or certificate number.

Maps to TaxDetail@category

TXI\*   \*myCategory~  
produces  
<TaxDetail ... category="myCategory" >

Category assigned for tax. Used for providing custom tax categories to override the standard tax categories. >

<b>Segment:</b>	<b>CTT Transaction Totals</b>
<b>Position:</b>	070
<b>Loop:</b>	
<b>Level:</b>	Summary
<b>Usage:</b>	Optional (Recommended)
<b>Max Use:</b>	1
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set
<b>Syntax Notes:</b>	<b>1</b> If either CTT03 or CTT04 is present, then the other is required. <b>2</b> If either CTT05 or CTT06 is present, then the other is required.
<b>Semantic Notes:</b>	
<b>Comments:</b>	<b>1</b> This segment is intended to provide hash totals to validate transaction completeness and correctness.
<b>Usage Notes:</b>	Recommended
<b>Notes:</b>	Example: CTT*1*75~  CTT is recommended, but not required. If it is present, its values are verified and causes an EDI compliance error if they are wrong.

Data Element Summary				
<u>Ref.</u> <u>Des.</u>	<u>Data</u> <u>Element</u>	<u>Name</u>	<u>Base</u> <u>Attributes</u>	<u>User</u> <u>Attributes</u>
CTT01	354	<b>Number of Line Items</b> Total number of line items in the transaction set	<b>M</b> <b>N0 1/6</b>	<b>M</b>
CTT02	347	<b>Hash Total</b> Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element. Example: -.0018 First occurrence of value being hashed. .18 Second occurrence of value being hashed. 1.8 Third occurrence of value being hashed. 18.01 Fourth occurrence of value being hashed. ----- 1855 Hash total prior to truncation. 855 Hash total after truncation to three-digit field.	<b>O</b> <b>R 1/10</b>	<b>O</b>



<b>Segment:</b>	<b>SE</b> Transaction Set Trailer
<b>Position:</b>	080
<b>Loop:</b>	
<b>Level:</b>	Summary
<b>Usage:</b>	Mandatory
<b>Max Use:</b>	1
<b>Purpose:</b>	To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments)
<b>Syntax Notes:</b>	
<b>Semantic Notes:</b>	
<b>Comments:</b>	1 SE is the last segment of each transaction set.
<b>Notes:</b>	Example: SE*30*0001~

Data Element Summary				
Ref.	Data		Base	User
<u>Des.</u>	<u>Element</u>	<u>Name</u>	<u>Attributes</u>	<u>Attributes</u>
SE01	96	Number of Included Segments	M N0 1/10	M
		Total number of segments included in a transaction set including ST and SE segments		
SE02	329	Transaction Set Control Number	M AN 4/9	M
		Identifying control number that must be unique within the transaction set functional group assigned by the originator for a transaction set		

## 10.1 Appendix A: REF Mappings for Extrinsic and IdReference

This table shows the table of REF qualifiers and their corresponding mappings for Extrinsic and IdReference.

The Description is plainly the X12 published definition. The cXML code is essentially that abbreviated into cXML style syntax, and intended for machine processing in the cXML client.

The Description column is usually used for Extrinsic@name, except where it exceeds eighty (80) chars, in which case the Short Description is used instead. The Short Description is filled in (as opposed to “null”) in these cases.

Note that this is an interim mapping. At the time of this writing, Ariba Network 4.0 FT4, Extrinsic data is displayed as a name-value pair. Hence why the Description is used..

When REF (1/110) is used, a child of the N1 group, any valid X12 REF qualifier may be used beyond those printed in the guideline. When one is used, an IdReference element is produced, with the @domain element taking the cXML code and the @identifier element taking REF02.

Note that some of the cXML codes are slightly different than their traditional definition would imply, because they are specially used by Ariba Buyer, which expects certain particular strings in IdReference@domain.

DE0128	cXML	Description	Short Description
01	transitRoutingNumber	American Bankers Assoc. (ABA) Transit/Routing Number (Including Check Digit, 9 Digits)	ABA Transit/Routing Number
02	swiftID	Society for Worldwide Interbank Financial Telecommunication (S.W.I.F.T.) Identification (8 or 11 Characters)	SWIFT Identification
03	chipsParticipantID	Clearing House Interbank Payment System (CHIPS) Participant Number (3 or 4 Digits)	CHIPS Participant
04	financialBranchAndInstitution	Canadian Financial Institution Branch and Institution Number	null
05	chipsUserID	Clearing House Interbank Payment System (CHIPS) User Identification (6 digits)	CHIPS User Identification
06	computerManufacturerSystemID	System Number	null
07	addOnComputerSystemID	Add-On System Number	null
08	carrierPackageID	Carrier Assigned Package Identification Number	null
09	customsBarCodeNumber	Customs Bar Code Number	null
0A	supervisoryAppraiserCertificationNo	Supervisory Appraiser Certification Number	null
0B	stateLicenceNumber	State License Number	null
0D	subjectPropertyVerificationSource	Subject Property Verification Source	null
0E	subjectPropertyReferenceNumber	Subject Property Reference Number	null
0F	subscriberNumber	Subscriber Number	null
0G	reviewerFileNumber	Reviewer File Number	null
0H	comparablePropertyPendingSaleRef	Comparable Property Pending Sale Reference Number	null
0I	comparablePropertySaleRef	Comparable Property Sale Reference Number	null
0J	subjectPropertyNonSaleRef	Subject Property Non-Sale Reference Number	null
0K	policyFormID	Policy Form Identifying Number	null
0L	referencedBy	Referenced By	null
0M	mortgageIDNumber	Mortgage Identification Number	null
0N	attachedTo	Attached To	null
0P	realEstateOwnedPropertyId	Real Estate Owned Property Identifier	null
10	accountManagersCode	Account Managers Code	null
11	accountNumber	Account Number	null
12	accountPayableID	Billing Account	null

13	horizontalCoordinate	Horizontal Coordinate	null
14	masterAccountNumber	Master Account Number	null
15	verticalCoordinate	Vertical Coordinate	null
16	miprNumber	Military Interdepartmental Purchase Request (MIPR) Number	null
17	clientReportingCategory	Client Reporting Category	null
18	planNumber	Plan Number	null
19	divisionID	Division Identifier	null
1A	blueCrossProviderNumber	Blue Cross Provider Number	null
1B	blueShieldProviderNumber	Blue Shield Provider Number	null
1C	medicareProviderNumber	Medicare Provider Number	null
1D	medicaidProviderNumber	Medicaid Provider Number	null
1E	dentistLicenceNumber	Dentist License Number	null
1F	anesthesiaLicenceNumber	Anesthesia License Number	null
1G	providerUPINNumber	Provider UPIN Number	null
1H	champusID	CHAMPUS Identification Number	null
1I	dodIDCode	Department of Defense Identification Code (DoDIC)	null
1J	facilityID	Facility ID Number	null
1K	payorClaimNumber	Payor's Claim Number	null
1L	groupOrPolicyNumber	Group or Policy Number	null
1M	ppoSiteNumber	Preferred Provider Organization Site Number	null
1N	drgNumber	Diagnosis Related Group (DRG) Number	null
1O	consolidationShipmentNumber	Consolidation Shipment Number	null
1P	accessorialStatusCode	Accessorial Status Code	null
1Q	errorIDCode	Error Identification Code	null
1R	storageInfoCode	Storage Information Code	null
1S	ambulatoryPatientGroupNo	Ambulatory Patient Group (APG) Number	null
1T	resourceUtilizationGroupNo	Resource Utilization Group (RUG) Number	null
1U	payGrade	Pay Grade	null
1V	relatedVendorOrderNo	Related Vendor Order Number	null
1W	memberIDNumber	Member Identification Number	null
1X	creditOrDebitAdjustmentNo	Credit or Debit Adjustment Number	null
1Y	repairActionNo	Repair Action Number	null
1Z	financialDetailCode	Financial Detail Code	null
20	repairPartNo	Repair Part Number	null
21	agaEquationNo	American Gas Association Equation Number	null
22	specialChargeOrAllowanceCode	Special Charge or Allowance Code	null
23	clientNumber	Client Number	null
24	shortTermDisabilityPolicyNo	Short-term Disability Policy Number	null
25	reasonNotLowestCodeCode	Reason Not Lowest Cost Code	null
26	unionNumber	Union Number	null
27	InsurorPoolIDNo	Insuror Pool Identification Number	null
28	employeeIDNo	Employee Identification Number	null
29	foreclosureAccountNo	Foreclosure Account Number	null
2A	importLicenseNo	Import License Number	null
2B	terminalReleaseOrderNo	Terminal Release Order Number	null
2C	longTermDisabilityPolicyNo	Long-term Disability Policy Number	null
2D	aeronauticalEquipmentRefNo	Aeronautical Equipment Reference Number (AERNO)	null
2E	foreignMilitarySalesCaseNo	Foreign Military Sales Case Number	null
2F	consolidatedInvoiceNo	Consolidated Invoice Number	null
2G	amendment	Amendment	null

2H	assignedByTransactionSetSender	Assigned by transaction set sender	null
2I	trackingNo	Tracking Number	null
2J	floorNo	Floor Number	null
2K	fdaProductType	Food and Drug Administration (FDA) Product Type	null
2L	aarAccountingRules	Association of American Railroads (AAR) Railway Accounting Rules	Assn of American Railroads (AAR) Accounting Rules
2M	fccID	Federal Communications Commission (FCC) Identifier	null
2N	fccTradeBrandID	Federal Communications Commission (FCC) Trade/Brand Identifier	FCC Trade/Brand Identifier
2O	oshaClaimNo	Occupational Safety and Health Administration (OSHA) Claim Number	OSHA Claim Number
2P	subdivisionID	Subdivision Identifier	null
2Q	fdaAccessionNo	Food and Drug Administration (FDA) Accession Number	null
2R	couponRedemptionNo	Coupon Redemption Number	null
2S	catalog	Catalog	null
2T	subSubhouseBillOfLading	Sub-subhouse Bill of Lading	null
2U	payerIDNumber	Payer Identification Number	null
2V	specialGovACRN	Special Government Accounting Classification Reference Number (ACRN)	Special Government ACRN
2W	changeOrderAuthority	Change Order Authority	null
2X	supplementalAgreementAuthority	Supplemental Agreement Authority	null
2Y	wageDetermination	Wage Determination	null
2Z	uscsAntiDumpingDutyCaseNo	U.S. Customs Service (USCS) Anti-dumping Duty Case Number	null
30	usGovVisaNo	United States Government Visa Number	null
31	docketNo	Docket Number	null
32	creditRepositoryCode	Credit Repository Code	null
33	lenderCaseNo	Lender Case Number	null
34	loanRequestNo	Loan Request Number	null
35	multifamilyProjectNo	Multifamily Project Number	null
36	underwriterIDNo	Underwriter Identification Number	null
37	condominiumIDNo	Condominium Identification Number	null
38	masterPolicyNo	Master Policy Number	null
39	proposalNo	Proposal Number	null
3A	sectionOfNationalHousingActCode	Section of the National Housing Act Code	null
3B	supplementalClaimNo	Supplemental Claim Number	null
3C	payeeLoanNo	Payee Loan Number	null
3D	servicerLoanNo	Servicer Loan Number	null
3E	investorLoanNo	Investor Loan Number	null
3F	showID	Show Identification	null
3G	catastropheNo	Catastrophe Number	null
3H	caseNo	Case Number	null
3I	precinctNo	Precinct Number	null
3J	officeNo	Office Number	null
3K	petroleumPoolCode	Petroleum Pool Code	null
3L	branchID	Branch Identifier	null
3M	fccConditionCode	Federal Communications Commission (FCC) Condition Code	null
3N	gasCustodianID	Gas Custodian Identification	null
3O	uscsPreApprovalRulingNo	U.S. Customs Service (USCS) Pre-approval Ruling Number	null

3P	thirdPartyOriginatorNo	Third Party Originator Number	null
3Q	fdaProductCode	Food and Drug Administration (FDA) Product Code	null
3R	uscsBindingRulingNo	U.S. Customs Service (USCS) Binding Ruling Number	null
3S	provincialSalesTaxExemptionNo	Provincial (Canadian) Sales Tax Exemption Number	null
3T	uscsPreClassificationRulingNo	U.S. Customs Service (USCS) Pre-classification Ruling Number	null
3U	protractionNo	Protraction Number	null
3V	formationID	Formation Identifier	null
3W	uscsCommercialDesc	U.S. Customs Service (USCS) Commercial Description	null
3X	subcontractNo	Subcontract Number	null
3Y	receiverAssignedDropZone	Receiver Assigned Drop Zone	null
3Z	customsBrokerRefNo	Customs Broker Reference Number	null
40	leaseScheduleNoReplacement	Lease Schedule Number - Replacement	null
41	leaseScheduleNoPrior	Lease Schedule Number - Prior	null
42	phoneCalls	Phone Calls	null
43	supportingDocumentNo	Supporting Document Number	null
44	endUseNo	End Use Number	null
45	oldAccountNo	Old Account Number	null
46	oldMeterNo	Old Meter Number	null
47	plateNo	Plate Number	null
48	agencyStudentNo	Agency's Student Number. This is the number assigned by an agency other than the institution sending the record.	Agency's Student Number
49	familyUnitNo	Family Unit Number	null
4A	personalIDNoPIN	Personal Identification Number (PIN)	null
4B	shipmentOriginCode	Shipment Origin Code	null
4C	shipmentDestinationCode	Shipment Destination Code	null
4D	shippingZone	Shipping Zone	null
4E	carrierAssignedConsigneeNo	Carrier-assigned Consignee Number	null
4F	carrierAssignedShipperNo	Carrier-assigned Shipper Number	null
4G	provincialTaxID	Provincial Tax Identification	null
4H	commercialInvoiceNo	Commercial Invoice Number	null
4I	balanceDueRefNo	Balance-due Reference Number	null
4J	vehicleRelatedServicesRefNo	Vehicle-related Services Reference Number	null
4K	accessorialRailDiversionRefNo	Accessorial Rail Diversion Reference Number	null
4L	locationSpecificServicesRefNo	Location-specific Services Reference Number	null
4M	specialMoveRefNo	Special Move Reference Number	null
4N	specialPaymentRefNo	Special Payment Reference Number	null
4O	cdnGSTorQSTRefNo	Canadian Goods & Services or Quebec Sales Tax Reference Number	Canadian Goods & Services or Quebec Sales Tax Reference No
4P	affiliationNo	Affiliation Number	null
4Q	fccCallSign	Call Sign	null
4R	ruleSection	Rule Section	null
4S	preferredCallSign	Preferred Call Sign	null
4T	nadsID	North American Datum Standard (NADS)	null
4U	marketArea	Market Area	null
4V	emissionDesignator	Emission Designator	null
4W	radioEngineeringStudy	Study	null
4X	fccLicenseApplicationFileNo	Log	null
4Y	subhouseBillOfLading	Subhouse Bill of Lading	null

4Z	uscsCountervailingDutyCaseNo	U.S. Customs Service (USCS) Countervailing Duty Case Number	null
50	stateStudentIDNo	State Student Identification Number	null
51	pictureNo	Picture Number	null
52	swiftMT100	SWIFT (MT 100)	null
53	swiftMT202	SWIFT (MT 202)	null
54	fedWireTransfer	FEDWIRE (Federal Wire Transfer)	null
55	sequenceNo	Sequence Number	null
56	correctedSocialSecurityNo	Corrected Social Security Number	null
57	priorIncorrectSocialSecurityNo	Prior Incorrect Social Security Number	null
58	correctedBatchNo	Corrected Batch Number	null
59	priorIncorrectBatchNo	Prior Incorrect Batch Number	null
5A	offenseTracking	Offense Tracking	null
5B	supplementalAccountNo	Supplemental Account Number	null
5C	congressionalDistrict	Congressional District	null
5D	lineOfCreditCategory	Line of Credit Category	null
5E	consumerID	Consumer Identifier	null
5F	warrant	Warrant	null
5G	complaint	Complaint	null
5H	incident	Incident	null
5I	offenderTracking	Offender Tracking	null
5J	driversLicense	Driver's License	null
5K	commercialDriversLicense	Commercial Driver's License	null
5L	jurisdictionalCommunityNo	Jurisdictional Community Number	null
5M	previousSequence	Previous Sequence	null
5N	citationOfStatute	Citation of Statute	null
5O	citationOfOpinion	Citation of Opinion	null
5P	natlCriminalInfoCenterOrigAgencyID	National Criminal Information Center Originating Agency Identification	Nat'l Criminal Information Center Originating Agency Id
5Q	stateCriminalHistRepIndividualID	State Criminal History Repository Individual Identification	null
5R	fbiIndividualID	Federal Bureau of Investigation Individual Identification	null
5S	processingArea	Processing Area	null
5T	paymentLocation	Payment Location	null
5U	floodDataID	Flood Data Identifier	null
5V	couponDistributionMethod	Coupon Distribution Method	null
5W	origUniformCommercialCodeFilingNo	Original Uniform Commercial Code Filing Number	null
5X	amdUniformCommercialCodeFilingNo	Amended Uniform Commercial Code Filing Number	null
5Y	contUniformCommercialCodeFilingNo	Continuation Uniform Commercial Code Filing Number	null
5Z	uniformCommercialCodeFilingCollNo	Uniform Commercial Code Filing Collateral Number	null
60	accountSuffixCode	Account Suffix Code	null
61	taxingAuthorityIDNo	Taxing Authority Identification Number	null
63	priorLoanNo	Prior Loan Number	null
64	jurisdictionalCommunityNameID	Jurisdictional Community Name Identifier	null
65	totalOrderCycleNo	Total Order Cycle Number	null
66	previousPolicyNo	Previous Policy Number	null
67	previousClaimHistoryID	Previous Claim History Identifier	null
68	dentalInsuranceAccountNo	Dental Insurance Account Number	null
69	dentalInsurancePolicyNo	Dental Insurance Policy Number	null

6A	consigneeRefNo	Consignee Reference Number	null
6B	uscsEntryNo	U.S. Customs Service (USCS) Entry Number	null
6C	uscsEntryTypeCode	U.S. Customs Service (USCS) Entry Type Code	null
6D	uscsStatementNo	U.S. Customs Service (USCS) Statement Number	null
6E	mapReference	Map Reference	null
6F	appraiserLicense	Appraiser License	null
6G	mapNo	Map Number	null
6H	comparablePropertyVerificationSrc	Comparable Property Verification Source	null
6I	comparableProperty	Comparable Property	null
6J	censusTract	Census Tract	null
6K	zone	Zone	null
6L	agentContractNo	Agent Contract Number	null
6M	applicationNo	Application Number	null
6N	claimantNo	Claimant Number	null
6O	crossReferenceNo	Cross Reference Number	null
6P	groupNo	Group Number	null
6Q	insuranceLicenseNo	Insurance License Number	null
6R	providerControlNo	Provider Control Number	null
6S	providerOrderTicketNo	Provider Order Ticket Number	null
6T	pilotLicenseNo	Pilot License Number	null
6U	questionNo	Question Number	null
6V	reissueCessionNo	Reissue Cession Number	null
6W	sequenceNo2	Sequence Number	null
6X	specimenID	Specimen Identifier	null
6Y	equipmentInitial	Equipment Initial	null
6Z	secofiNo	Secretaria de Comercia y Famenta Industrial (SECOFI) Number	null
70	calendarNo	Calendar Number	null
71	shiftNo	(Working) Shift Number	null
72	scheduleRefNo	Schedule Reference Number	null
73	statementOfWork	Statement of Work (SOW)	null
74	workBreakdownStructure	Work Breakdown Structure (WBS)	null
75	organizationBreakdownStructure	Organization Breakdown Structure	null
76	milestone	Milestone	null
77	workPackage	Work Package	null
78	planningPackage	Planning Package	null
79	costAccount	Cost Account	null
7A	poNoIncludedInOnOrderPosition	Purchase Order Number Included in On-Order Position	null
7B	poNoOfShipmentRecvSinceLastRepDate	Purchase Order Number of Shipment Received since Last Reporting Date	PO Number of Shipment Rec'd since Last Reporting Date
7C	poNoOfOrderRecvSinceLastRepDate	Purchase Order Number of Order Received since Last Reporting Date	PO Number of Order Rec'd since Last Reporting Date
7D	testerID	Tester Identification	null
7E	collectorID	Collector Identification	null
7F	repeatLocation	Repeat Location	null
7G	dataQualityRejectReason	Data Quality Reject Reason	null
7H	epaTestTypePurposeCode	Environmental Protection Agency (EPA) Test Type Purpose Code	null
7I	subscriberAuthorizationNo	Subscriber Authorization Number	null
7J	tollBillingTelephoneRefNMo	Toll Billing Telephone Reference Number	null

7K	listOfMaterials	List of Materials	null
7L	qualifiedMaterialsList	Qualified Materials List	null
7M	frame	Frame	null
7N	piggyback	Piggyback	null
7O	tripleback	Tripleback	null
7P	sheet	Sheet	null
7Q	engineeringChangeOrder	Engineering Change Order	null
7R	representativeIDNo	Representative Identification Number	null
7S	drawingType	Drawing Type	null
7T	masterContract	Master Contract	null
7U	relatedTransactionRefNo	Related Transaction Reference Number	null
7W	interchangeTrainID	Interchange Train Identification	null
7X	hmdaStateCode	Home Mortgage Disclosure Act (HMDA) State Code	null
7Y	hmdaCountyCode	Home Mortgage Disclosure Act (HMDA) County Code	null
7Z	hmdaMSA	Home Mortgage Disclosure Act (HMDA) Metropolitan Statistical Area (MSA)	HMDA Metropolitan Statistical Area (MSA)
80	chargeNo	Charge Number	null
81	symbolNumber	Symbol Number (for Milestone or LOB reports)	null
82	dataItemDescriptionRef	Data Item Description (DID) Reference	null
83	extendedLineItemNoELIN	Extended (or Exhibit) Line Item Number (ELIN)	null
84	contractorDataRequirementsListCDRL	Contractor Data Requirements List (CDRL)	null
85	subcontractorDataRequirementsSDRL	Subcontractor Data Requirements (SDRL)	null
86	operationNo	Operation Number	null
87	functionalCategory	Functional Category	null
88	workCenter	Work Center	null
89	assemblyNo	Assembly Number	null
8A	hmoAuthorizationNo	Health Maintenance Organization (HMO) Authorization Number	null
8B	ppoAuthorizationNo	Preferred Provider Organization (PPO) Authorization Number	null
8C	tpoAuthorizationNo	Third-party Organization (TPO) Authorization Number	null
8D	chemicalAbstractServiceRegistryNo	Chemical Abstract Service Registry Number	null
8E	guarantorLoanNo	Guarantor Loan Number	null
8F	schoolLoanNo	School Loan Number	null
8G	achTraceNo	Automated Clearinghouse (ACH) Trace Number	null
8H	checkListNo	Check List Number	null
8I	fedwireConfirmationNo	FEDWIRE Confirmation Number	null
8J	swiftConfirmationNo	Society for Worldwide Interbank Financial Telecommunications (SWIFT) Confirmation Number	SWIFT Confirmation Number
8K	dominionOfCanadaCode	Dominion of Canada Code	null
8L	isicCode	International Standard Industry Classification Code (ISIC)	null
8M	originatingCompanyID	Originating Company Identifier	null
8N	receivingCompanyID	Receiving Company Identifier	null
8O	achEntryDescription	Automated Clearing House (ACH) Entry Description	null
8P	origDepositFinancialInstID	Originating Depository Financial Institution Identifier	null
8Q	recvDepositFinancialInstID	Receiving Depository Financial Institution Identifier	null



8R	securityType	Security Type	null
8S	brokerID	Broker Identification	null
8U	bankAssignedSecurityID	Bank Assigned Security Identifier	null
8V	creditReference	Credit Reference	null
8W	bankToBankInformation	Bank to Bank Information	null
8X	transactionCategoryOrType	Transaction Category or Type	null
8Y	safekeepingAccountNo	Safekeeping Account Number	null
8Z	alternateClauseNo	Alternate Clause Number	null
90	subassemblyNo	Subassembly Number	null
91	costElement	Cost Element	null
92	changeDocumentNo	Change Document Number	null
93	fundsAuthorization	Funds Authorization	null
94	fileIdentificationNo	File Identification Number	null
95	cusipNo	Committee on Uniform Securities Identification Procedures (CUSIP) Number	CUSIP Number
96	stockCertificateNo	Stock Certificate Number	null
97	packageNo	Package Number	null
98	containerPackagingSpecNo	Container/Packaging Specification Number	null
99	rateConferenceIDCode	Rate Conference ID Code	null
9A	repricedClaimReferenceNo	Repriced Claim Reference Number	null
9B	repricedLineItemReferenceNo	Repriced Line Item Reference Number	null
9C	adjustedRepricedClaimReferenceNo	Adjusted Repriced Claim Reference Number	null
9D	adjustedRepricedLineItemReferenceNo	Adjusted Repriced Line Item Reference Number	null
9E	replacementClaimNo	Replacement Claim Number	null
9F	referralNo	Referral Number	null
9G	dodForm250RequirementCode	Department of Defense Form 250 Requirement Code	null
9H	packagingGroupNo	Packaging Group Number	null
9I	achStandardEntryClass	Automated Clearing House (ACH) Standard Entry Class	null
9J	pensionContract	Pension Contract	null
9K	servicer	Servicer	null
9L	serviceBureau	Service Bureau	null
9M	chipsSequenceNo	Clearing House Interbank Payments System (CHIPS) Sequence Number	CHIPS Sequence Number
9N	investor	Investor	null
9P	loanType	Loan Type	null
9Q	poolSuffix	Pool Suffix	null
9R	jobOrderNo	Job Order Number	null
9S	deliveryRegion	Delivery Region	null
9T	tenor	Tenor	null
9U	loanFeatureCode	Loan Feature Code	null
9V	paymentCategory	Payment Category	null
9W	payerCategory	Payer Category	null
9X	accountCategory	Account Category	null
9Y	bankAssignedBankersRefNo	Bank Assigned Bankers Reference Number	null
9Z	chamberOfCommerceNo	Chamber of Commerce Number	null
A0	advertiserNo	Advertiser Number	null
A1	analysisTestNumber	Analysis number/Test number	null
A2	disabilityInsuranceAccountNo	Disability Insurance Account Number	null
A3	assignmentNo	Assignment Number	null
A4	disabilityInsurancePolicyNo	Disability Insurance Policy Number	null
A5	educationalInstitutionID	Educational Institution Identification Number	null

A6	employeeID	Employee Identification Number	null
A7	fsaInsuranceAccountNo	Flexible Spending Account (FSA) Insurance Account Number	null
A8	fsaInsurancePolicyNo	Flexible Spending Account (FSA) Insurance Policy Number	null
A9	healthInsuranceAccountNo	Health Insurance Account Number	null
AA	accountsReceivableStatementNo	Accounts Receivable Statement Number	null
AAA	distributorsSplitAgentNo	Distributor's Split Agent Number	null
AAB	fundManagersReferenceNo	Fund Manager's Reference Number	null
AAC	agencyHierarchicalLevel	Agency Hierarchical Level	null
AAD	officerLicenseNo	Officer License Number	null
AAE	previousDistributionNo	Previous Distributor Number	null
AAF	interviewerID	Interviewer ID	null
AAG	militaryID	Military ID	null
AAH	optionPolicyNo	Option Policy Number	null
AAI	payrollAccountNo	Payroll Account Number	null
AAJ	priorContractNo	Prior Contract Number	null
AAK	worksiteNo	Worksite Number	null
AAL	agentNo	Agent Number	null
AAM	treatyID	Treaty Identifier	null
AAN	associatedCaseControlNo	Associated Case Control Number	null
AAO	carrierAssignedCode	Carrier Assigned Code	null
AAP	dealerNo	Dealer Number	null
AAQ	directoryNo	Directory Number	null
AAR	distributorAssignedTransactionNo	Distributor Assigned Transaction Number	null
AAS	distributorAssignedOrderNo	Distributor Assigned Order Number	null
AAT	distributorsAccountNo	Distributor's Account Number	null
AAU	generalAgencyNo	General Agency Number	null
AAV	laboratoryNo	Laboratory Number	null
AAW	agencyAssignedNo	Agency Assigned Number	null
AAX	listBillNo	List Bill Number	null
AAY	accountingPeriodRef	Accounting Period Reference	null
AAZ	paramedicalID	Paramedical ID Number	null
AB	acceptableSourcePurchaserID	Acceptable Source Purchaser ID	null
ABA	payrollNo	Payroll Number	null
ABB	personalIDNo	Personal ID Number	null
ABC	policyLinkNo	Policy Link Number	null
ABD	secondaryPolicyNo	Secondary Policy Number	null
ABE	specialQuoteNo	Special Quote Number	null
ABF	natlPropertyRegistrySystemL1	National Property Registry System Level 1	null
ABG	natlPropertyRegistrySystemL2	National Property Registry System Level 2	null
ABH	investorAssignedID	Investor Assigned Identification Number	null
ABJ	ginnieMaePoolPackageNo	Ginnie Mae (Government National Mortgage Association) Pool Package Number	Ginnie Mae Pool Package Number
ABK	mortgageElectronicRegSysOrgID	Mortgage Electronic Registration System Organization Identifier	Mortgage Electronic Registration System Organization Id
ABL	sellerLoanNo	Seller Loan Number	null
ABM	subServicerLoanNo	Sub-Servicer Loan Number	null
ABN	natlPropertyRegistrySystemL3	National Property Registry System Level 3	null
ABO	stateHazardousWasteEntityID	State Hazardous Waste Entity Identifier	null
ABP	bankruptcyProcedureNo	Bankruptcy Procedure Number	null
ABQ	natlBusinessID	National Business Identification Number	null
ABR	priorDUNS	Prior Data Universal Number System (D-U-N-	Prior DUNS Number

		S) Number, Dun & Bradstreet	
ABS	vesselName	Vessel Name	null
ABT	securityInstrumentNo	Security Instrument Number	null
ABU	assignmentRecordingNo	Assignment Recording Number	null
ABV	bookNo	Book Number	null
ABY	hcfaNatlPayerID	Health Care Financing Administration National Payer Identification Number	Health Care Financing Administration National Payer Id No
AC	airCargoTransferManifest	Air Cargo Transfer Manifest	null
ACA	growthFactorRef	Growth Factor Reference	null
ACB	region	Region	null
ACC	status	Status	null
ACD	classCode	Class Code	null
ACE	serviceRequestNo	Service Request Number	null
ACF	supplementNo	Supplement Number	null
ACG	previousTicketNo	Previous Ticket Number	null
ACH	oneCallAgencyTicketNo	One Call Agency Ticket Number	null
ACI	ticketNo	Ticket Number	null
ACJ	billOfMaterialRevisionNo	Bill of Material Revision Number	null
ACK	drawingRevisionNo	Drawing Revision Number	null
ACR	achNOCCode	Automated Clearinghouse (ACH) Return/Notification of Change (NOC) Code	ACH Return/Notification of Change (NOC) Code
ACS	societyOfPropertyInfoCompilers	Society of Property Information Compilers and Analysts	null
ACT	accountingCode	Accounting Code	null
AD	acceptableSourceDUNSNo	Acceptable Source DUNS Number	null
ADA	aidar	Agency for International Development Acquisition Regulation (AIDAR)	Agency for International Development Acquisition Regulation
ADB	masterPropertyNo	Master Property Number	null
ADC	projectPropertyNo	Project Property Number	null
ADD	unitPropertyNo	Unit Property Number	null
ADE	associatedPropertyNo	Associated Property Number	null
ADF	associatedNoForLimComElemParking	Associated Number For Limited Common Element Parking	null
ADG	associatedNoForUnitParking	Associated Number For Unit Parking	null
ADH	associatedNoForJoinUnitNotResub	Associated Number For Joined Unit not re-subdivided	null
ADI	processorID	Processor Identification Number	null
ADM	airDimensionCode	Air Dimension Code	null
AE	authorizationForExpenseAFENo	Authorization for Expense (AFE) Number	null
AEA	numeroCIN	Numero de Cedula de Identidad (CIN) Number	null
AEB	croNumber	Company's Registry Office (CRO) Number	null
AEC	governmentRegistrationNo	Government Registration Number	null
AED	judicialNo	Judicial Number	null
AEE	numeroNIT	Numero de Identificacion Tributaria (NIT)	null
AEF	passportNo	Passport Number	null
AEG	patronNo	Patron Number	null
AEH	registroInformacionFiscalRIF	Registro Informacion Fiscal (RIF)	null
AEI	registroUnicoDeContribuyenteRUC	Registro Unico de Contribuyente (RUC)	null
AEJ	numeroSIEX	Superintendencia de Inversiones Extranjeras (SIEX) Number	null
AEK	tokyoShokoResearchBusinessID	Tokyo Shoko Research Business Identifier	null
AEL	registroNacionalDeContribuyente	Registro Nacional de Contribuyente (RNC)	null

AEM	distributionCenterNo	Distribution Center Number	null
AF	airlinesFlightID	Airlines Flight Identification Number	null
AG	agentsShipmentNo	Agent's Shipment Number	null
AH	masterAgreementID	Agreement Number	null
AHC	airHandlingCode	Air Handling Code	null
AI	associatedInvoices	Associated Invoices	null
AJ	accountsReceivableCustomerAccount	Accounts Receivable Customer Account	null
AK	sendingCompanyAuditNo	Sending Company Audit Number (Automated Clearinghouse Transfers)	Sending Company Audit Number (ACH Transfers)
AL	accountingEquipmentLocationNo	Accounting (Equipment) Location Number	null
ALC	agencyLocationCode	Agency Location Code	null
ALG	titleCompanyCodeBookRef	Title Company Code Book Reference	null
ALH	titleDocumentSchedule	Title Document Schedule	null
ALI	recordingNo	Recording Number	null
ALJ	titlePolicyNo	Title Policy Number	null
ALT	alterationNo	Alteration Number	null
AM	adjustmentMemoChargeBack	Adjustment Memo (Charge Back)	null
AN	associatedPurchaseOrders	Associated Purchase Orders	null
AO	appointmentNo	Appointment Number	null
AP	accountReceivableID	Accounts Receivable Number	null
API	apiDeductionCode	American Petroleum Institute (API) Deduction Code	null
AQ	accessCode	Access Code	null
AR	arrivalCode	Arrival Code	null
AS	acceptableSourceSupplierID	Acceptable Source Supplier ID	null
ASL	aslbpNo	Atomic Safety and Licensing Board Panel (ASLBP) Number	null
ASP	animalSpecial	Animal Species	null
AST	animalStrain	Animal Strain	null
AT	appropriationNo	Appropriation Number	null
ATC	maintenanceAvailabilityType	Maintenance Availability Type	null
AU	authorizationToMeetCompetitionNo	Authorization to Meet Competition Number	null
AV	healthInsuranceRatingAccountNo	Health Insurance Rating Account Number	null
AW	airWaybillNo	Air Waybill Number	null
AX	governmentAccountingClassRefNo	Government Accounting Class Reference Number (ACRN)	null
AY	floorPlanApprovalNo	Floor Plan Approval Number	null
AZ	healthInsurancePolicyNo	Health Insurance Policy Number	null
B1	lesseeBillCodeNo	Lessee Bill Code Number	null
B2	axleRatio	Axle Ratio	null
B3	preferredProviderOrgNo	Preferred Provider Organization Number	null
B4	bilateralCarServiceAgreements	Bilateral Car Service Agreements	null
B5	healthInsuranceRatingSuffixCode	Health Insurance Rating Suffix Code	null
B6	lifeInsuranceBillingAccountNo	Life Insurance Billing Account Number	null
B7	lifeInsurancePolicyNo	Life Insurance Policy Number	null
B8	lifeInsuranceBillingSuffixCode	Life Insurance Billing Suffix Code	null
B9	retirementPlanAccountNo	Retirement Plan Account Number	null
BA	retirementPlanPolicyNo	Retirement Plan Policy Number	null
BAA	franchiseTaxAccountNo	Franchise Tax Account Number	null
BAB	certificateOfIncorporationNo	Certificate of Incorporation Number	null
BAC	beamAssemblyCode	Beam Assembly Code	null
BAD	stateTaxID	State Tax Identification Number	null
BAE	charterNo	Charter Number	null

BAF	receiptNo	Receipt Number	null
BAG	withdrawalAccountNo	Withdrawal Account Number	null
BAH	depositAccountNo	Deposit Account Number	null
BAI	businessIdentNo	Business Identification Number	null
BB	authorizationNo	Authorization Number	null
BC	buyersContractNo	Buyer's Contract Number	null
BCI	basicContractLineItemNo	Basic Contract Line Item Number	null
BD	bidNo	Bid Number	null
BE	businessActivity	Business Activity	null
BF	billingCenterID	Billing Center Identification	null
BG	beginningSerialNo	Beginning Serial Number	null
BH	leaseScheduleNoBlanket	Lease Schedule Number - Blanket	null
BI	bondedCarrierIRSID	Bonded Carrier Internal Revenue Service Identification Number	Bonded Carrier IRS Identification Number
BJ	carrierCustomsBondNo	Carrier's Customs Bond Number	null
BK	brokersOrderNo	Broker's Order Number	null
BKT	bankTelegraphicNo	Bank Telegraphic Number	null
BL	governmentBillOfLading	Government Bill of Lading	null
BLT	billingType	Billing Type	null
BM	billOfLadingNo	Bill of Lading Number	null
BMM	beginMileMarker	Begin Mile Marker	null
BN	bookingNo	Booking Number	null
BO	binLocationNo	Bin Location Number	null
BOI	binaryObjectID	Binary Object Identifier	null
BP	adjustmentControlNo	Adjustment Control Number	null
BQ	healthMaintenanceOrganizationCodeNo	Health Maintenance Organization Code Number	null
BR	brokerOrSalesOfficeNo	Broker or Sales Office Number	null
BS	splitBookingNo	Split Booking Number	null
BT	batchNo	Batch Number	null
BU	buyersApprovalMark	Buyer's Approval Mark	null
BV	purchaseOrderLineItemIDBuyer	Purchase Order Line Item Identifier (Buyer)	null
BW	blendedWithBatchNo	Blended With Batch Number	null
BX	buyersShipmentMarkNo	Buyer's Shipment Mark Number	null
BY	repairCategoryNo	Repair Category Number	null
BZ	complaintCode	Complaint Code	null
C0	canadianSocialInsuranceNoSIN	Canadian Social Insurance Number	null
C1	customerMaterialSpecificationNo	Customer material specification number	null
C2	customerProcessSpecificationNo	Customer process specification number	null
C3	customerSpecificationNo	Customer specification number	null
C4	changeNo	Change Number	null
C5	customerTrackingNoForLoanedMat	Customer Tracking Number For Loaned Materials	null
C6	carnetNo	Carnet Number	null
C7	contractLineItemNo	Contract Line Item Number	null
C8	correctedContractNo	Corrected Contract Number	null
C9	previousCreditDebitAdjustmentNo	Previous Credit/Debit Adjustment Number	null
CA	costAllocationRef	Cost Allocation Reference	null
CB	combinedShipment	Combined Shipment	null
CBG	censusBlockGroup	Census Block Group	null
CC	contractCoOpNo	Contract Co-op Number	null
CD	creditNoteNo	Credit Note Number	null
CDN	citizenshipDocumentNo	Citizenship Document Number	null

CE	classOfContractCode	Class of Contract Code	null
CF	fleetReferenceNo	Fleet Reference Number	null
CG	consigneesOrderNo	Consignee's Order Number	null
CH	customerCatalogNo	Customer catalog number	null
CI	uniqueConsignmentID	Unique Consignment Identifier	null
CIR	circuitNo	Circuit Number	null
CIT	citation	Citation	null
CJ	clauseNo	Clause Number	null
CK	checkNo	Check Number	null
CL	sellersCreditMemo	Seller's Credit Memo	null
CM	buyersCreditMemo	Buyer's Credit Memo	null
CMN	continuousMoveNo	Continuous Move Number	null
CMP	customerMaintenancePeriodSeqNo	Customer Maintenance Period Sequence Number	null
CMT	component	Component	null
CN	carrierShipmentID	Carrier's Reference Number (PRO/Invoice)	null
CNO	commitmentNo	Commitment Number	null
CO	customerOrderNo	Customer Order Number	null
COL	collocationIndicator	Collocation Indicator	null
COT	certificateOfTransportation	Certificate of Transportation	null
CP	conditionOfPurchaseDocumentNo	Condition of Purchase Document Number	null
CPA	canadianProvinceOperatingAuthNo	Canadian Province Operating Authority Number	null
CPT	currentProceduralTerminologyCode	Current Procedural Terminology Code	null
CQ	customsHouseBrokerLicenseNo	Customshouse Broker License Number	null
CR	customerReferenceNo	Customer Reference Number	null
CRN	casualtyReportNo	Casualty Report Number	null
CRS	casualtyReportSerialNo	Casualty Report Serial Number	null
CS	conditionOfSaleDocumentNo	Condition of Sale Document Number	null
CSC	cs54KeyTrainIndicatorCode	CS54 Key Train Indicator Code	null
CSG	cs54KeyTrainIndicatorGroupName	CS54 Key Train Indicator Group Name	null
CST	censusStateCode	Census State Code	null
CT	contractNo	Contract Number	null
CTS	censusTractSuffix	Census Tract Suffix	null
CU	clearTextClause	Clear Text Clause	null
CV	coilNo	Coil Number	null
CW	canadianWheatBoardPermitNo	Canadian Wheat Board Permit Number	null
CX	consignmentClassificationID	Consignment Classification ID	null
CY	commercialRegistrationNo	Commercial Registration Number	null
CYC	periodicityCode	Periodicity Code	null
CZ	contractRiderNo	Contract Rider Number (Used in conjunction with contract number)	Contract Rider Number
D0	dataReliabilityCode	Data Reliability Code	null
D1	deaOrderBlankNo	Drug Enforcement Administration Order Blank Number	null
D2	supplierDocumentID	Supplier Document Identification Number	null
D3	natlAssocOfBoardsOfPharmacyNo	National Association of Boards of Pharmacy Number	null
D4	cutNo	Cut Number	null
D5	dyeLotNo	Dye Lot Number	null
D6	duplicateBillNo	Duplicate Bill Number	null
D7	coverageCode	Coverage Code	null
D8	lossReportNo	Loss Report Number	null

D9	claimNo	Claim Number	null
DA	domicileBranchNo	Domicile Branch Number	null
DB	buyersDebitMemo	Buyer's Debit Memo	null
DC	dealerPurchaseOrderNo	Dealer purchase order number	null
DD	documentIDCode	Document Identification Code	null
DE	depositorNo	Depositor Number	null
DF	dfar	Defense Federal Acquisition Regulations (DFAR)	null
DG	drawingNo	Drawing Number	null
DH	deaNo	Drug Enforcement Administration Number	null
DHH	hhsar	Department of Health and Human Services Acquisition Regulation (HHSAR)	Dept of Health and Human Services Acquisition Regulation
DI	distributorInvoiceNo	Distributor Invoice Number	null
DIS	districtNo	District Number	null
DJ	deliveryTicketNo	Delivery Ticket Number	null
DK	dockNo	Dock Number	null
DL	sellersDebitMemo	Seller's Debit Memo	null
DM	associatedProductNo	Associated Product Number	null
DN	draftNo	Draft Number	null
DNR	depositNo	Deposit Number	null
DNS	duns4	D-U-N-S+4, D-U-N-S Number with Four Character Suffix	null
DO	deliveryOrderNumber	Delivery Order Number	null
DOA	agar	Department of Agriculture Acquisition Regulation (AGAR)	null
DOC	car	Department of Commerce Acquisition Regulation (CAR)	null
DOE	dear	Department of Energy Acquisition Regulation (DEAR)	null
DOI	diar	Department of Interior Acquisition Regulation (DIAR)	null
DOJ	jar	Department of Justice Acquisition Regulation (JAR)	null
DOL	dolar	Department of Labor Acquisition Regulation (DOLAR)	null
DON	densityOrderNo	Density Order Number	null
DOS	dosar	Department of State Acquisition Regulation (DOSAR)	null
DOT	tar	Department of Transportation Acquisition Regulation (TAR)	null
DP	departmentNo	Department Number	null
DQ	deliveryQuoteNo	Delivery Quote Number	null
DR	dockReceiptNo	Dock Receipt Number	null
DRN	drainholeNo	Drainhole Number	null
DS	dpasPriorityRating	Defense Priorities Allocation System (DPAS) Priority Rating	null
DSC	departureFromSpecClassCode	Departure from Specification Class Code	null
DSI	departureFromSpecNo	Departure from Specification Number	null
DST	departureFromSpecTypeCode	Departure from Specification Type Code	null
DT	downstreamShipperContractNo	Downstream Shipper Contract Number	null
DTS	tapr	Department of the Treasury Acquisition/Procurement Regulation (TAPR)	Dept of the Treasury Acquisition/Procurement Regulation
DU	dependentsInformation	Dependents Information	null
DUN	duns	D-U-N-S Number Dun & Bradstreet	null

DV	diversionAuthorityNo	Diversion Authority Number	null
DW	depositSequenceNo	Deposit Sequence Number	null
DX	departmentAgencyNo	Department/Agency Number	null
DY	dodTransportationServiceCodeNo	Department of Defense Transportation Service Code Number (Household Goods)	DOD Transportation Service Code Number (Household Goods)
DZ	crnaProviderID	Certified Registered Nurse Anesthetist (CRNA) Provider Identification Number	CRNA Provider Identification Number
E1	emergencyOrderNo	Emergency Order Number	null
E2	partCausingRepairNo	Part Causing Repair Number	null
E3	expansionOnEffectOfChangeNo	Expansion on Effect of Change Number	null
E4	chargeCardNo	Charge Card Number	null
E5	claimantsClaimNo	Claimant's Claim Number	null
E6	backoutProcedureCode	Backout Procedure Code	null
E7	serviceBulletinNo	Service Bulletin Number	null
E8	serviceContractNo	Service Contract (Coverage) Number	null
E9	attachmentCode	Attachment Code	null
EA	medicalRecordID	Medical Record Identification Number	null
EB	embargoPermitNo	Embargo Permit Number	null
EC	circular	Circular	null
ED	exportDeclaration	Export Declaration	null
EDA	edar	Department of Education Acquisition Regulation (EDAR)	null
EE	electionDistrict	Election District	null
EF	electronicFundsTransferID	Electronic Funds Transfer ID Number	null
EG	endingSerialNo	Ending Serial Number	null
EH	financialClassificationCode	Financial Classification Code	null
EI	employersID	Employer's Identification Number	null
EJ	patientAccountNo	Patient Account Number	null
EK	hmsaFacilityID	Healthcare Manpower Shortage Area (HMSA) Facility Identification Number	Healthcare Manpower Shortage Area (HMSA) Facility Id Number
EL	electronicDevicePIN	Electronic device pin number	null
EM	electronicPaymentRefNo	Electronic Payment Reference Number	null
EMM	endMileMarker	End Mile Marker	null
EN	embargoNo	Embargo Number	null
END	endorsementNo	Endorsement Number	null
EO	submitterID	Submitter Identification Number	null
EP	exportPermitNo	Export Permit Number	null
EPA	epaAcquisitionRegulationEPAAR	Environmental Protection Agency Acquisition Regulation (EPAAR)	EPA Acquisition Regulation (EPAAR)
EPB	epaTransporterID	Environmental Protection Agency Transporter Identification Number	EPA Transporter Identification Number
EQ	equipmentNo	Equipment Number	null
ER	containerOrEquipmentReceiptNo	Container or Equipment Receipt Number	null
ES	employersSocialSecurityNo	Employer's Social Security Number	null
ESN	estimateSequenceNo	Estimate Sequence Number	null
ET	excessTransportation	Excess Transportation	null
EU	endUsersPurchaseOrderNo	End User's Purchase Order Number	null
EV	receiverID	Receiver Identification Number	null
EW	mammographyCertNo	Mammography Certification Number	null
EX	estimateNo	Estimate Number	null
EY	receiverSubIdentificationNo	Receiver Sub-identification Number	null
EZ	ediAgreementID	Electronic Data Interchange Agreement Number	null



F1	versionCodeNational	Version Code - National	null
F2	versionCodeLocal	Version Code - Local	null
F3	submissionNo	Submission Number	null
F4	facilityCertificationNo	Facility Certification Number	null
F5	medicareVersionCode	Medicare Version Code	null
F6	healthInsuranceClaimNoHIC	Health Insurance Claim (HIC) Number	null
F7	newHealthInsuranceClaimNoHIN	New Health Insurance Claim (HIC) Number	null
F8	originalReferenceNo	Original Reference Number	null
F9	freightPayorReferenceNo	Freight Payor Reference Number	null
FA	federalAcquisitionRegulationsFAR	Federal Acquisition Regulations (FAR)	null
FB	fileTransferFormNo	File Transfer Form Number	null
FC	filerCodeIssuedByCustoms	Filer Code Issued by Customs	null
FCN	assignedContractNo	Assigned Contract Number	null
FD	filerCodeIssuedByBureauOfCustoms	Filer Code Issued by Bureau of Census	null
FE	failureMechanismNo	Failure mechanism number	null
FF	filmNo	Film Number	null
FG	fundID	Fund Identification Number	null
FH	clinicNo	Clinic Number	null
FI	fileID	File Identifier	null
FJ	lineItemControlNumber	Line Item Control Number	null
FK	finishLotNo	Finish Lot Number	null
FL	fineLineClassification	Fine Line Classification	null
FLZ	floodZone	Flood Zone	null
FM	fmcForwardersNo	Federal Maritime Commission (FMC) Forwarders Number	null
FMP	facilityMeasurementPointNo	Facility Measurement Point Number	null
FN	forwardersAgentsReferenceNo	Forwarder's/Agent's Reference Number	null
FND	finderNo	Finder Number	null
FO	drugFormularyNo	Drug Formulary Number	null
FP	forestryPermitNo	Forestry Permit Number	null
FQ	formNo	Form Number	null
FR	freightBillNo	Freight Bill Number	null
FS	finalSequenceNo	Final Sequence Number	null
FSN	assignedSequenceNo	Assigned Sequence Number	null
FT	foreignTradeZone	Foreign Trade Zone	null
FTN	premarketNotificationNo	Premarket Notification Number	null
FU	fundCode	Fund Code	null
FV	hmoReferenceNo	Health Maintenance Organization (HMO) Reference Number	null
FW	stateLicenseID	State License Identification Number	null
FWC	finalWorkCandidateNo	Final Work Candidate Number	null
FX	failureAnalysisReportNo	Failure Analysis Report Number	null
FY	claimOfficeNo	Claim Office Number	null
FZ	processorsInvoiceNo	Processor's Invoice Number	null
G1	priorAuthorizationNo	Prior Authorization Number	null
G2	providerCommercialNo	Provider Commercial Number	null
G3	predeterminationOfBenefitsID	Predetermination of Benefits Identification Number	null
G4	peerReviewOrgApprovalNo	Peer Review Organization (PRO) Approval Number	null
G5	providerSiteNo	Provider Site Number	null
G6	payerAssignedResubmissionRefNo	Payer Assigned Resubmission Reference Number	null

G7	resubmissionReasonCode	Resubmission Reason Code	null
G8	resubmissionNo	Resubmission Number	null
G9	secondaryEmployeeID	Secondary Employee Identification Number	null
GA	governmentAdvanceProgress	Government Advance Progress	null
GB	grainBlockNo	Grain Block Number	null
GC	governmentContractNo	Government Contract Number	null
GD	returnGoodsBillOfLadingNo	Return Goods Bill of Lading Number	null
GE	geographicNo	Geographic Number	null
GF	specialtyLicenseNo	Specialty License Number	null
GG	guageTicketNo	Gauge Ticket Number	null
GH	identificationCardSerialNo	Identification Card Serial Number	null
GI	secondaryProviderNo	Secondary Provider Number	null
GJ	cornboreCertificationNo	Cornbore Certification Number	null
GK	thirdPartyReferenceNo	Third Party Reference Number	null
GL	geographicDestinationZoneNo	Geographic Destination Zone Number	null
GM	loanAcquisitionNo	Loan Acquisition Number	null
GN	folderNo	Folder Number	null
GO	exhibitID	Exhibit Identifier	null
GP	governmentPriorityNo	Government Priority Number	null
GQ	internalPurchaseOrderReleaseNo	Internal Purchase Order Release Number	null
GR	grainOrderReferenceNo	Grain Order Reference Number	null
GS	generalServicesAdmissionRegulations	General Services Administration Regulations (GSAR)	null
GT	gstID	Goods and Service Tax Registration Number	null
GU	internalPurchaseOrderItemNo	Internal Purchase Order Item Number	null
GV	thirdPartyPurchaseOrderNo	Third Party Purchase Order Number	null
GW	thirdPartyPurchaseOrderReleaseNo	Third Party Purchase Order Release Number	null
GWS	groupWorkCandidateSequenceNo	Group Work Candidate Sequence Number	null
GX	thirdPartyPurchaseOrderItemNo	Third Party Purchase Order Item Number	null
GY	emptyRepositioningNo	Empty Repositioning Number	null
GZ	generalLedgerNo	General Ledger Account	null
H1	highFabricationAuthorizationNo	High Fabrication Authorization Number	null
H2	highRawMaterialAuthorizationNo	High Raw Material Authorization Number	null
H3	gravitySourceMeterNo	Gravity Source Meter Number	null
H4	federalInfoResourcesMgmtRegulation	Federal Information Resources Management Regulation	null
H5	specialClause	Special Clause	null
H6	qualityClause	Quality Clause	null
H7	standardClause	Standard Clause	null
H8	hmdaCensusTract	Home Mortgage Disclosure Act (HMDA) Census Tract	null
H9	paymentHistoryReferenceNo	Payment History Reference Number	null
HA	competentAuthority	Competent Authority	null
HB	billAndHoldInvoiceNo	Bill & Hold Invoice Number	null
HC	heatCode	Heat Code	null
HD	deptOfTransportHazardousNo	Department of Transportation Hazardous Number	null
HE	hazardousExemptionNo	Hazardous Exemption Number	null
HF	engineeringDataList	Engineering Data List	null
HG	civilActionNo	Civil Action Number	null
HH	fiscalCode	Fiscal Code	null
HHT	typeOfHouseholdGoodsCode	Type of Household Goods Code	null
HI	healthIndustryNoHIN	Health Industry Number (HIN)	null

HJ	identityCardNo	Identity Card Number	null
HK	judgementNo	Judgment Number	null
HL	sirenNo	SIREN Number	null
HM	siretNo	SIRET Number	null
HMB	hmdaBlockNumberArea	Home Mortgage Disclosure Act Block Number Area	null
HN	hazardousCertificationNo	Hazardous Certification Number	null
HO	shippersHazardousNo	Shipper's Hazardous Number	null
HP	packAndHoldInvoiceNo	Pack & Hold Invoice Number	null
HPI	hcfaNatIProviderID	Health Care Financing Administration National Provider Identifier	Health Care Financing Administration National Provider Id
HQ	reinsuranceReference	Reinsurance Reference	null
HR	horsepowerRatingOfEngine	Horsepower	null
HS	harmonizedCodeSystemCanada	Harmonized Code System (Canada)	null
HT	codeOfFederalRegulations	Code of Federal Regulations	null
HU	typeOfEscrowNo	Type of Escrow Number	null
HUD	deptOfHousingAndUrbanDevAcqReg	Department of Housing and Urban Development Acquisition Regulation (HUDAR)	HUDAR
HV	escrowFileNo	Escrow File Number	null
HW	highWideFileNo	High/Wide File Number	null
HX	autoLossItemNo	Auto Loss Item Number	null
HY	propertyLossItemNo	Property Loss Item Number	null
HZ	taxAgencyNo	Tax Agency Number (MERS [Mortgage Electronic Registration System] Federal Information Processing Standards [FIPS] Based Number)	Tax Agency Number (MERS-FIPS Based Number)
I1	owningBureauID	Owning Bureau Identification Number	null
I2	iccAccountNo	Interstate Commerce Commission (ICC) Account Number	null
I3	nonAmericanID	Non-American Identification Number	null
I4	creditCounselingID	Credit Counseling Identification Number	null
I5	invoiceID	Invoice Identification	null
I7	creditReportNo	Credit Report Number	null
I8	socialInsuranceNo	Social Insurance Number	null
I9	pollutant	Pollutant	null
IA	internalVendorNo	Internal Vendor Number	null
IB	inBondNo	In Bond Number	null
IC	inboundToParty	Inbound-to Party	null
ICD	icd9CM	ICD-9-CM (International Classification of Diseases)	null
ID	insuranceCertificateNo	Insurance Certificate Number	null
IE	interchangeAgreementNo	Interchange Agreement Number	null
IF	issueNo	Issue Number	null
IFT	intlFuelTaxAgreementAccountNo	International Fuel Tax Agreement Account Number	null
IG	insurancePolicyNo	Insurance Policy Number	null
IH	initialDealerClaimNo	Initial Dealer Claim Number	null
II	initialSampleInspectionReportNo	Initial Sample Inspection Report Number	null
IID	imageID	Image Identifier	null
IJ	sicCode	Standard Industry Classification (SIC) Code	null
IK	manufacturerInvoiceID	Invoice Number	null
IL	internalOrderID	Internal Order Number	null
IM	imoNo	Intergovernmental Maritime Organization (IMO) Number	null

IMP	integratedMasterPlanIMP	Integrated Master Plan (IMP)	null
IMS	integratedMasterScheduleIMS	Integrated Master Schedule (IMS)	null
IN	consigneesInvoiceNo	Consignee's Invoice Number	null
IND	investigatorialNewDrugNo	Investigatorial New Drug Number	null
IO	inboundToOrOutboundFromParty	Inbound-to or Outbound-from Party	null
IP	inspectionReportNo	Inspection Report Number	null
IQ	endItem	End Item	null
IR	intraPlantRouting	Intra Plant Routing	null
IRN	importersRefNoToLetterOfCredit	Importer's Reference Number to Letter of Credit	null
IRP	intlRegistrationPlanAccountNo	International Registration Plan Account Number	null
IS	invoiceNoSuffix	Invoice Number Suffix	null
ISC	isicDominionOfCanadaCode	International Standard Industrial Classification (ISIC) Dominion of Canada Code (DCC)	ISIC Dominion of Canada Code (DCC)
ISN	intlRegistrationPlanStickerNo	International Registration Plan Sticker Number	null
ISS	inspectionAndSurveySeqNo	Inspection and Survey Sequence Number	null
IT	internalCustomerNo	Internal Customer Number	null
IU	bargePermitNo	Barge Permit Number	null
IV	sellersInvoiceID	Seller's Invoice Number	null
IW	partInterchangeability	Part Interchangeability	null
IX	itemNo	Item Number	null
IZ	insuredParcelPostNo	Insured Parcel Post Number	null
J0	proceeding	Proceeding	null
J1	creditor	Creditor	null
J2	attorney	Attorney	null
J3	judge	Judge	null
J4	trustee	Trustee	null
J5	originatingCase	Originating Case	null
J6	adversaryCase	Adversary Case	null
J7	leadCase	Lead Case	null
J8	jointlyAdministeredCase	Jointly Administered Case	null
J9	substantivelyConsolidatedCase	Substantively Consolidated Case	null
JA	beginningJobSeqNo	Beginning Job Sequence Number	null
JB	jobProjectNo	Job (Project) Number	null
JC	review	Review	null
JD	userIdentification	User Identification	null
JE	endingJobSequenceNo	Ending Job Sequence Number	null
JF	automatedUnderwritingRefNo	Automated Underwriting Reference Number	null
JH	tag	Tag	null
JI	multipleListingServiceArea	Multiple Listing Service Area	null
JK	multipleListingServiceSubArea	Multiple Listing Service Sub-area	null
JL	packet	Packet	null
JM	multipleListingServiceMapXCoord	Multiple Listing Service Map X Coordinate	null
JN	multipleListingServiceMapYCoord	Multiple Listing Service Map Y Coordinate	null
JO	multipleListingNo	Multiple Listing Number	null
JP	multipleListingServiceBookType	Multiple Listing Service Book Type	null
JQ	elevation	Elevation	null
JR	propertyComponentLocation	Property Component Location	null
JS	jobSequenceNo	Job Sequence Number	null
JT	priorTaxIDTIN	Prior Tax Identification Number (TIN)	null
JU	priorPhoneNo	Prior Phone Number	null
JV	priorHealthIndustryNo	Prior Health Industry Number	null

JW	priorUniversalProviderIDUPIN	Prior Universal Provider Identification Number (UPIN)	null
JX	priorPostalZipCode	Prior Postal Zip Code	null
JY	originOfShipmentHarmonizedBasedCode	Origin of Shipment Harmonized-Based Code	null
JZ	governingClassCode	Governing Class Code	null
K0	approvalCode	Approval Code	null
K1	foreignMilitarySalesNoticeNo	Foreign Military Sales Notice Number	null
K2	certifiedMailNo	Certified Mail Number	null
K3	registeredMailNo	Registered Mail Number	null
K4	criticalityDesignator	Criticality Designator	null
K5	taskOrder	Task Order	null
K6	purchaseDescription	Purchase Description	null
K7	paragraphNo	Paragraph Number	null
K8	projectParagraphNo	Project Paragraph Number	null
K9	inquiryRequestNo	Inquiry Request Number	null
KA	distributionList	Distribution List	null
KB	beginningKanbanSerialNo	Beginning Kanban Serial Number	null
KC	exhibitDistributionList	Exhibit Distribution List	null
KD	specialInstructionsNo	Special Instructions Number	null
KE	endingKanbanSerialNo	Ending Kanban Serial Number	null
KG	foreclosingStatus	Foreclosing Status	null
KH	typeOfLawSuit	Type of Law Suit	null
KI	typeOfOutstandingJudgment	Type of Outstanding Judgment	null
KJ	taxLienJurisdiction	Tax Lien Jurisdiction	null
KK	deliveryReference	Delivery Reference	null
KL	contractReference	Contract Reference	null
KM	rentalAccountNo	Rental Account Number	null
KN	censusAutomatedFilesID	Census Automated Files ID	null
KO	customsDrawbackEntryNo	Customs Drawback Entry Number	null
KP	healthCertificateNo	Health Certificate Number	null
KQ	procuringAgency	Procuring Agency	null
KR	responseToARequestForQuoteRef	Response to a Request for Quotation Reference	null
KS	solicitation	Solicitation	null
KT	requestForQuotationRef	Request for Quotation Reference	null
KU	officeSymbol	Office Symbol	null
KV	distributionStatementCode	Distribution Statement Code	null
KW	certification	Certification	null
KX	representation	Representation	null
KY	siteSpecificProceduresTermsConds	Site Specific Procedures, Terms, and Conditions	null
KZ	masterSolicitationProcsTermsConds	Master Solicitation Procedures, Terms, and Conditions	null
L1	lettersOrNotes	Letters or Notes	null
L2	locationOnProductCode	Location on Product Code	null
L3	laborOperationNo	Labor Operation Number	null
L4	proposalParagraphNo	Proposal Paragraph Number	null
L5	subExhibitLineItemNo	Subexhibit Line Item Number	null
L6	subContractLineItemNo	Subcontract Line Item Number	null
L7	customersReleaseNo	Customer's Release Number	null
L8	consigneesReleaseNo	Consignee's Release Number	null
L9	customersPartNo	Customer's Part Number	null
LA	shippingLabelSerialNo	Shipping Label Serial Number	null

LB	lockbox	Lockbox	null
LC	leaseNo	Lease Number	null
LD	loanNo	Loan Number	null
LE	lenderEntityNo	Lender Entity Number	null
LEN	locationExceptionOrderNo	Location Exception Order Number	null
LF	assemblyLineFeedLocation	Assembly Line Feed Location	null
LG	leaseScheduleNo	Lease Schedule Number	null
LH	longitudeExpressedInSeconds	Longitude Expressed in Seconds	null
LI	lineItemIDSellers	Line Item Identifier (Seller's)	null
LIC	hibccLIC	Health Industry Business Communications Council (HIBCC) Labeler Identification Code (LIC)	HIBCC Labeler Identification Code (LIC)
LJ	localJurisdiction	Local Jurisdiction	null
LK	longitudeExpressedInDMS	Longitude expressed in Degrees, Minutes and Seconds	null
LL	latitudeExpressedInSeconds	Latitude Expressed in Seconds	null
LM	prodPeriodForWhichLaborCostsAreFirm	Product Period for which Labor Costs are Firm	null
LN	nonPickupLimitedTariffNo	Non pickup Limited Tariff Number	null
LO	loadPlanningNo	Load Planning Number	null
LOI	loinc	Logical Observation Identifier Names and Codes (LOINC)	null
LP	forPickupLimitedFreightTariffNo	For Pickup Limited Freight Tariff Number	null
LQ	latitudeExpressedInDMS	Latitude Expressed in Degrees, Minutes and Seconds	null
LR	localStudentID	Local Student Identification Number	null
LS	barCodedSerialNo	Bar-Coded Serial Number	null
LSD	logisticsSupportDocTypeCode	Logistics Support Documentation Type Code	null
LT	lotNo	Lot Number	null
LU	locationNo	Location Number	null
LV	licensePlateNo	License Plate Number	null
LVO	levyingOfficerID	Levy Officer Identification	null
LW	locationWithinEquipment	Location Within Equipment	null
LX	qualifiedProductsList	Qualified Products List	null
LY	destOfShipmentHarmonizedBasedCode	Destination of Shipment Harmonized-Based Code	null
LZ	lenderAccountNo	Lender Account Number	null
M1	materialStorageLocation	Material Storage Location	null
M2	majorForceProgram	Major Force Program	null
M3	cropYear	Crop Year	null
M5	leaseAgreementAmendmentNoMaster	Lease Agreement Amendment Number - Master	null
M6	militaryOrdnanceSecurityRiskNo	Military Ordnance Security Risk Number	null
M7	medicalAssistanceCategory	Medical Assistance Category	null
M8	limitedPartnershipID	Limited Partnership Identification Number	null
M9	taxShelterNo	Tax Shelter Number	null
MA	shipNoticeID	Ship Notice/Manifest Number	null
MB	masterBillOfLading	Master Bill of Lading	null
MBX	mailbox	Mailbox	null
MC	microfilmNo	Microfilm Number	null
MCI	motorCarrierID	Motor Carrier Identification Number	null
MD	magazineCode	Magazine Code	null
MDN	hazardousWasteManifestDocNo	Hazardous Waste Manifest Document Number	null
ME	messageAddressOrID	Message Address or ID	null
MF	manufacturersPartNo	Manufacturers Part Number	null

MG	meterNo	Meter Number	null
MH	manufacturingOrderNo	Manufacturing Order Number	null
MI	millOrderNo	Mill Order Number	null
MJ	modelNo	Model Number	null
MK	manifestKeyNo	Manifest Key Number	null
ML	militaryRankCivilianPayGradeNo	Military Rank/Civilian Pay Grade Number	null
MM	masterLeaseAgreementNo	Master Lease Agreement Number	null
MN	micrNo	MICR Number	null
MO	manufacturingOperationNo	Manufacturing Operation Number	null
MP	multiplePOsOfAnInvoice	Multiple P.O.s of an Invoice	null
MQ	meterProvingReportNo	Meter Proving Report Number	null
MR	merchandiseTypeCode	Merchandise Type Code	null
MS	manufacturerMaterialSafetyDataSheet	Manufacturer's Material Safety Data Sheet Number	null
MSL	mailSlot	Mail Slot	null
MT	meterTicketNo	Meter Ticket Number	null
MU	milspecNo	Military Specification (MILSPEC) Number	null
MV	migrantNo	Migrant Number, This number is assigned by the national Migrant Records Transfer System	Migrant Number
MW	militaryCallNo	Military Call Number	null
MX	materialChangeNoticeNo	Material Change Notice Number	null
MY	modelYearNo	Model year number	null
MZ	maintenanceRequestNo	Maintenance Request Number	null
MZO	multipleZoneOrderNo	Multiple Zone Order Number	null
N0	nominationNo	Nomination Number	null
N1	localSchoolCourseNo	Local School Course Number	null
N2	localSchoolDistrictCourseNo	Local School District Course Number	null
N3	statewideCourseNo	Statewide Course Number	null
N4	usDoENCESCourseNo	United States Department of Education, National Center for Education Statistics (NCES) Course Number	US Dept of Education, NCES Course Number
N5	providerPlanNetworkID	Provider Plan Network Identification Number	null
N6	planNetworkID	Plan Network Identification Number	null
N7	facilityNetworkID	Facility Network Identification Number	null
N8	secondaryHealthInsuranceID	Secondary Health Insurance Identification Number	null
N9	dataAuthenticationNo	Data Authentication Number	null
NA	northAmericanHazardousClass	North American Hazardous Classification Number	null
NAS	nasaFARSupplement	National Aeronautics and Space Administration FAR Supplement (NFS)	NASA FAR Supplement (NFS)
NB	letterOfCreditNo	Letter of Credit Number	null
NC	secondaryCoverageCompanyNo	Secondary Coverage Company Number	null
ND	letterOfCreditDraftNo	Letter of Credit Draft Number	null
NDA	abbreviatedNewDrugApplicationNo	Abbreviated New Drug Application Number	null
NDB	newDrugApplicationNo	New Drug Application Number	null
NE	leaseRiderNo	Lease Rider Number	null
NF	naicCode	National Association of Insurance Commissioners (NAIC) Code	null
NFC	natlFloodInsuranceProgCommunityName	National Flood Insurance Program Community Name	null
NFD	natlFloodInsuranceProgCounty	National Flood Insurance Program County	null
NFM	natlFloodInsuranceProgMapNo	National Flood Insurance Program Map Number	null
NFN	natlFloodInsuranceProgCommunityNo	National Flood Insurance Program Community	null

		Number	
NFS	natlFloodInsuranceProgState	National Flood Insurance Program State	null
NG	naturalGasPolicyActCategoryCode	Natural Gas Policy Act Category Code	null
NH	rateCardNo	Rate Card Number	null
NI	militaryStandardNoMILSTD	Military Standard (MIL-STD) Number	null
NJ	technicalDocumentNo	Technical Document Number	null
NK	priorCase	Prior Case	null
NL	technicalOrderNo	Technical Order Number	null
NM	discounterRegistrationNo	Discounter Registration Number	null
NN	nonconformanceReportNo	Nonconformance Report Number	null
NO	noOT5AuthorityZeroMileageRate	No OT5 Authority-zero Mileage Rate	null
NP	partialPaymentNo	Partial Payment Number	null
NQ	medicaidRecipientID	Medicaid Recipient Identification Number	null
NR	progressPaymentNo	Progress Payment Number	null
NS	natlStockNo	National Stock Number	null
NT	administratorsRefNo	Administrator's Reference Number	null
NU	pendingCase	Pending Case	null
NW	associatedPolicyNo	Associated Policy Number	null
NX	relatedNonconformanceNo	Related Nonconformance Number	null
NY	agentClaimNo	Agent Claim Number	null
NZ	criticalApplication	Critical Application	null
O1	outerContinentalShelfAreaCode	Outer Continental Shelf Area Code	null
O2	outerContinentalShelfBlockNo	Outer Continental Shelf Block Number	null
O5	ot5AuthorityCondOrRestOnCarHireRate	OT5 Authority-Condition or Restriction on Car Hire Rate	null
O7	opacTransaction	On-line Procurement and Accounting Control (OPAC) Transaction	Online Procurement and Accounting Control (OPAC) Transaction
O8	originalFiling	Original Filing	null
O9	continuationFiling	Continuation Filing	null
OA	outletNo	Outlet Number	null
OB	oceanBillOfLading	Ocean Bill of Lading	null
OC	oceanContainerNo	Ocean Container Number	null
OD	originalReturnRequestReference	Original Return Request Reference Number	null
OE	openAndPrepaidStationListNo	Open and Prepaid Station List Number	null
OF	operatorID	Operator Identification Number	null
OG	terminationFiling	Termination Filing	null
OH	originHouse	Origin House	null
OI	originalInvoiceNo	Original Invoice Number	null
OJ	amendmentFiling	Amendment Filing	null
OK	offerGroup	Offer Group	null
OL	originalShippersBillOfLadingNo	Original Shipper's Bill of Lading Number	null
OM	oceanManifest	Ocean Manifest	null
ON	dealerOrderNo	Dealer Order Number	null
OP	originalPurchaseOrder	Original Purchase Order	null
OQ	orderNo	Order Number	null
OR	orderParagraphNo	Order/Paragraph Number	null
OS	outboundFromParty	Outbound-from Party	null
OT	salesAllowanceNo	Sales Allowance Number	null
OU	tariffSupplementNo	Tariff Supplement Number	null
OV	tariffSuffixNo	Tariff Suffix Number	null
OW	serviceOrderNo	Service Order Number	null
OX	statementNo	Statement Number	null



OZ	productNo	Product Number	null
P1	previousContractNo	Previous Contract Number	null
P2	previousDEANo	Previous Drug Enforcement Administration Number	null
P3	previouscCustomerReferenceNo	Previous customer reference number	null
P4	projectCode	Project Code	null
P5	positionCode	Position Code	null
P6	pipelineNo	Pipeline Number	null
P7	productLineNo	Product Line Number	null
P8	pickupReferenceNo	Pickup Reference Number	null
P9	pageNo	Page Number	null
PA	priceAreaNo	Price Area Number	null
PAC	patentCooperationTreatyApplNo	Patent Cooperation Treaty Application Number	null
PAN	nonProvisionalPatentApplicationNo	Nonprovisional Patent Application Number	null
PAP	provisionalPatentApplicationNo	Provisional Patent Application Number	null
PB	payersFinancialInstAccountNo	Payer's Financial Institution Account Number for Check, Draft, or Wire Payments; Originating Company Account Number for ACH Transfers	Payer's Financial Institution Account Number
PC	productionCode	Production Code	null
PCC	poolContractCode	Pool Contract Code	null
PCN	protocolNo	Protocol Number	null
PD	promotionDealNo	Promotion/Deal Number	null
PDL	previousDriversLicense	Previous Driver's License	null
PE	plantNo	Plant Number	null
PF	primeContractorContractNo	Prime Contractor Contract Number	null
PG	productGroup	Product Group	null
PGC	packingGroupCode	Packing Group Code	null
PGN	plugNo	Plug Number	null
PGS	proposedGroupWorkCandidateSeqNo	Proposed Group Work Candidate Sequence Number	null
PH	priorityRating	Priority Rating	null
PHC	procssHandlingCode	Process Handling Code	null
PI	priceListChangeOrIssueNo	Price List Change or Issue Number	null
PID	programID	Program Identification Number	null
PIN	platformID	Platform Identification Number	null
PJ	packerNo	Packer Number	null
PK	packingListNo	Packing List Number	null
PL	priceListNo	Price List Number	null
PLA	productLicensingAgreementNo	Product Licensing Agreement Number	null
PLN	proposedContractNo	Proposed Contract Number	null
PM	partNo	Part Number	null
PMN	premarketApplicationNo	Premarket Application Number	null
PN	permitNo	Permit Number	null
PNN	patentNo	Patent Number	null
PO	purchaseOrderID	Purchase Order Number	null
POL	policyNo	Policy Number	null
PP	purchaseOrderRevisionNo	Purchase Order Revision Number	null
PQ	payeeID	Payee Identification	null
PR	priceQuoteNo	Price Quote Number	null
PRS	previouslyReportedSocialSecurityNo	Previously Reported Social Security Number	null
PRT	productType	Product Type	null
PS	purchaseOrderNumberSuffix	Purchase Order Number Suffix	null
PSI	prevShipmentIDContinuousMove	Previous Shipment Identification Number -	null

		Continuous Move	
PSL	nextShipmentIDContinuousMove	Next Shipment Identification Number - Continuous Move	null
PSM	creditCard	Credit Card	null
PSN	proposedSequenceNo	Proposed Sequence Number	null
PT	purchaseOptionAgreement	Purchase Option Agreement	null
PTC	patentType	Patent Type	null
PU	previousBillOfLadingNo	Previous Bill of Lading Number	null
PV	productChangeInformationNo	Product change information number	null
PW	priorPurchaseOrderNo	Prior purchase order number	null
PWC	preliminaryWorkCandidateNo	Preliminary Work Candidate Number	null
PWS	proposedWorkCandidateSeqNo	Proposed Work Candidate Sequence Number	null
PX	previousInvoiceNo	Previous Invoice Number	null
PY	accountID	Account Number	null
PZ	productChangeNoticeNo	Product Change Notice Number	null
Q1	quoteNo	Quote Number	null
Q2	startingPackageNo	Starting Package Number	null
Q3	endingPackageNo	Ending Package Number	null
Q4	priorIdentifierNo	Prior Identifier Number	null
Q5	propertyControlNo	Property Control Number	null
Q6	recallNo	Recall Number	null
Q7	receiverClaimNo	Receiver Claim Number	null
Q8	registrationNo	Registration Number	null
Q9	repairOrderNo	Repair Order Number	null
QA	pressID	Press Identifier	null
QB	pressFormID	Press Form Identifier	null
QC	productSpecificationDocumentNo	Product Specification Document Number	null
QD	replacementDEANo	Replacement Drug Enforcement Administration Number	null
QE	replacementCustomerRefNo	Replacement Customer Reference Number	null
QF	qualityDispositionAreaID	Quality Disposition Area Identifier	null
QG	replacementAssemblyModelNo	Replacement Assembly Model Number	null
QH	replacementassemblySerialNo	Replacement Assembly Serial Number	null
QI	qualityInspectionAreaID	Quality Inspection Area Identifier	null
QJ	returnMaterialAuthorizationNo	Return Material Authorization Number	null
QK	salesProgramNo	Sales Program Number	null
QL	serviceAuthorizationNo	Service Authorization Number	null
QM	qualityReviewMaterialCribID	Quality Review Material Crib Identifier	null
QN	stopSequenceNo	Stop Sequence Number	null
QO	serviceEstimateNo	Service Estimate Number	null
QP	substitutePartNo	Substitute Part Number	null
QQ	unitNo	Unit Number	null
QR	qualityReportNo	Quality Report Number	null
QS	warrantyCoverageCode	Warranty Coverage Code	null
QT	warrantyRegistrationNo	Warranty Registration Number	null
QU	changeVerificationProcedureCode	Change Verification Procedure Code	null
QV	newSystemAffectedCode	Major System Affected Code	null
QW	newPartNo	New Part Number	null
QX	oldPartNo	Old Part Number	null
QY	servicePerformedCode	Service Performed Code	null
QZ	referenceDrawingNo	Reference Drawing Number	null
R0	regiristoFederalDeContribuyentes	Regiristo Federal de Contribuyentes (Mexican Federal Tax ID Number)	Regiristo Federal de Contribuyentes

			(Mexican Federal Tax ID)
R1	currentRevisionNo	Current Revision Number	null
R2	cancelledRevisionNo	Canceled Revision Number	null
R3	correctionNo	Correction Number	null
R4	tariffSectionNo	Tariff Section Number	null
R5	tariffPageNo	Tariff Page Number	null
R6	tarriffRuleNo	Tariff Rule Number	null
R7	accountsReceivableOpenItem	Accounts Receivable Open Item	null
R8	rentalAgreementNo	Rental Agreement Number	null
R9	rejectionNo	Rejection Number	null
RA	repetitiveCargoShipmentNo	Repetitive Cargo Shipment Number	null
RAA	restrictedAvailabilityAuthorization	Restricted Availability Authorization	null
RAN	restrictedAvailabilityNo	Restricted Availability Number	null
RB	rateCodeNo	Rate code number	null
RC	railRoutingCode	Rail Routing Code	null
RD	reelNo	Reel Number	null
RE	releaseNo	Release Number	null
REC	relatedCase	Related Case	null
RF	exportReferenceNo	Export Reference Number	null
RG	routeOrderNumberDomestic	Route Order Number-Domestic	null
RGI	regulatoryGuidelineID	Regulatory Guideline Identifier	null
RH	routeOrderNumberExport	Route Order Number-Export	null
RI	releaseInvoiceNoForPriorBillAndHold	Release invoice number for prior bill and hold	null
RIG	rigNo	Rig Number	null
RJ	routeOrderNumberEmergency	Route Order Number-Emergency	null
RK	rackTypeNo	Rack Type Number	null
RL	reserveAssemblyLineFeedLocation	Reserve Assembly Line Feed Location	null
RM	rawMaterialSupplierDUNS	Raw material supplier Dun & Bradstreet number	null
RN	runNo	Run Number	null
RO	repetitiveBookingNo	Repetitive Booking Number	null
RP	repetitivePatternCode	Repetitive Pattern Code	null
RPP	relativePriority	Relative Priority	null
RPT	reportNo	Report Number	null
RQ	purchaseRequisitionNo	Purchase Requisition Number	null
RR	payersFinancialInstTransitRoutingNo	Payer's Financial Institution Transit Routing Number for Check, Draft or Wire Payments. Originating Depository Financial Institution Routing Number for ACH Transfers	Payer's Financial Institution Transit Routing Number
RRS	reconciliationReportSectionIDCode	Reconciliation Report Section Identification Code	null
RS	returnableContainerSerialNo	Returnable Container Serial Number	null
RSN	reservationNo	Reservation Number	null
RT	bankRoutingID	American Banker's Association (ABA)	null
RU	routeNo	Route Number	null
RV	receivingNo	Receiving Number	null
RW	repetitiveWaybillCode	Repetitive Waybill Code (Origin Carrier, Standard Point Location Code, Repetitive Waybill Code Number)	Repetitive Waybill Code
RX	resubmitNo	Resubmit number	null
RY	rebateNo	Rebate Number	null
RZ	returnedGoodsAuthorizationNo	Returned Goods Authorization Number	null
S0	specialApproval	Special Approval	null

S1	engineeringSpecificationNo	Engineering Specification Number	null
S2	dataSource	Data Source	null
S3	specificationNo	Specification Number	null
S4	shippersBondNo	Shippers Bond Number	null
S5	routingInstructionNo	Routing Instruction Number	null
S6	stockNo	Stock Number	null
S7	stackTrainID	Stack Train Identification	null
S8	sealOffNo	Seal Off Number	null
S9	sealOnNo	Seal On Number	null
SA	salesperson	Salesperson	null
SB	salesRegionNo	Sales Region Number	null
SBN	suretyBondNo	Surety Bond Number	null
SC	shipperCarOrderNo	Shipper Car Order Number	null
SCA	scac	Standard Carrier Alpha Code (SCAC)	null
SD	subdayNo	Subday Number	null
SE	serialNumber	Serial Number	null
SEK	searchKey	Search Key	null
SES	session	Session	null
SF	shipFrom	Ship From	null
SG	savings	Savings	null
SH	senderDefinedClause	Sender Defined Clause	null
SHL	shelfLifeIndicator	Shelf Life Indicator	null
SI	shippersIdentifyingNoForShipmentSID	Shipper's Identifying Number for Shipment (SID)	null
SJ	setNo	Set Number	null
SK	serviceChangeNo	Service Change Number	null
SL	salesTerritoryCode	Sales/Territory Code	null
SM	salesOfficeNo	Sales Office Number	null
SN	sealNo	Seal Number	null
SNH	snomed	Systematized Nomenclature of Human and Veterinary Medicine (SNOMED)	Systematized Nomenclature of Human and Veterinary Medicine
SNV	stateNonResidentViolatorCompact	State Non-Resident Violator Compact	null
SO	shippersOrderInvoiceNo	Shipper's Order (Invoice Number)	null
SP	scanLine	Scan Line	null
SPL	splc	Standard Point Location Code (SPLC)	null
SPN	theaterScreenNo	Theater Screen Number	null
SQ	containerSequenceNo	Container Sequence Number	null
SR	salesResponsibility	Sales Responsibility	null
SS	splitShipmentNo	Split Shipment Number	null
ST	storeNo	Store Number	null
STB	stccBridgeNo	Standard Transportation Commodity Code (STCC) Bridge Number	null
STR	stccReplacementCode	Standard Transportation Commodity Code (STCC) Replacement Code	STCC Replacement Code
SU	specialProcessingCode	Special Processing Code	null
SUB	titleReference	Title Reference	null
SUO	spacingUnitOrderNo	Spacing Unit Order Number	null
SV	serviceChargeNo	Service Charge Number	null
SW	sellersSaleNo	Seller's Sale Number	null
SX	serviceInterruptTrackingNo	Service Interrupt Tracking Number	null
SY	socialSecurityNo	Social Security Number	null
SZ	specificationRevision	Specification Revision	null
T0	dealerTypeID	Dealer Type Identification	null

T1	taxExchangeCode	Tax Exchange Code	null
T2	taxFormCode	Tax Form Code	null
T3	taxScheduleCode	Tax Schedule Code	null
T4	defenseFuelSupplyCenterSignalCode	Signal Code	null
T5	trailerUseAgreements	Trailer Use Agreements	null
T6	taxFiling	Tax Filing	null
T7	affectedSubsystemCode	Affected Subsystem Code	null
T8	descriptionOfChangeCode	Description of Change Code	null
T9	documentatinoAffectedNo	Documentation Affected Number	null
TA	telecomCircuitSupplementalID	Telecommunication Circuit Supplemental ID	null
TB	truckersBillOfLading	Trucker's Bill of Lading	null
TC	vendorTerms	Vendor Terms	null
TD	reasonForChange	Reason for Change	null
TDT	technicalDocumentationType	Technical Documentation Type	null
TE	fmcTariffNo	Federal Maritime Commission (FMC) Tariff Number	null
TF	transferNo	Transfer Number	null
TG	transportationControlNoTCN	Transportation Control Number (TCN)	null
TH	transportationAccountCodeTAC	Transportation Account Code (TAC)	null
TI	tirNo	TIR Number	null
TIP	technicalInformationPackage	Technical Information Package	null
TJ	federalTaxID	Federal Taxpayer's Identification Number	null
TK	tankNo	Tank Number	null
TL	taxLicenseExemption	Tax License Exemption	null
TM	travelManifestACIorOTR	Travel Manifest (ACI or OTR)	null
TN	transactionReferenceNo	Transaction Reference Number	null
TO	terminalOperatorNo	Terminal Operator Number	null
TOC	typeOfComment	Type of Comment	null
TP	testSpecificationNo	Test Specification Number	null
TPN	transponderNo	Transponder Number	null
TQ	tracerActionRequestNo	Tracer Action Request Number	null
TR	governmentTransportationRequest	Government Transportation Request	null
TS	tariffNo	Tariff Number	null
TSN	templateSequenceNo	Template Sequence Number	null
TT	terminalCode	Terminal Code	null
TU	trialLocationCode	Trial Location Code	null
TV	lineOfBusiness	Line of Business	null
TW	taxWorksheet	Tax Worksheet	null
TX	taxExemptionID	Tax Exempt Number	null
TY	policyType	Policy Type	null
TZ	totalCycleNo	Total Cycle Number	null
U0	consolidatorsReceiptNo	Consolidator's Receipt Number	null
U1	regionalAccountNo	Regional Account Number	null
U2	term	Term	null
U3	usin	Unique Supplier Identification Number (USIN)	null
U4	unpaidInstallmentReferenceNo	Unpaid Installment Reference Number	null
U5	successorAccount	Successor Account	null
U6	predecessorAccount	Predecessor Account	null
U8	mbsLoanNo	Mortgage Backed Security (MBS) Loan Number	null
U9	mbsPoolNo	Mortgage Backed Security (MBS) Pool Number	null
UA	mortgageNo	Mortgage Number	null

UB	unacceptableSourcePurchaserID	Unacceptable Source Purchaser ID	null
UC	mortgageInsuranceIndicatorNo	Mortgage Insurance Indicator Number	null
UD	unacceptableSourceDUNSNo	Unacceptable Source DUNS Number	null
UE	secondaryCoverageCertificateNo	Secondary Coverage Certificate Number	null
UF	mortgageInsuranceCompanyNo	Mortgage Insurance Company Number	null
UG	usGovTransportationControlNo	U.S. Government Transportation Control Number	null
UH	mortgageRemovalNo	Removal Number	null
UI	previousCourseNo	Previous Course Number	null
UJ	currentOrLatestCourseNo	Current or Latest Course Number	null
UK	equivalentCourseNoAtRequestingInst	Equivalent Course Number at Requesting Institution	null
UL	crossListedCourseNo	Cross-listed Course Number	null
UM	quarterQuarterSectionNo	Quarter Quarter Section Number	null
UN	unHazardousClassificationNo	United Nations Hazardous Classification Number	null
UO	quarterQuarterSpotNo	Quarter Quarter Spot Number	null
UP	upstreamShipperContractNo	Upstream Shipper Contract Number	null
UQ	sectionNo	Section Number	null
UR	unitReliefNo	Unit Relief Number	null
URL	url	Uniform Resource Locator	null
US	unacceptableSourceSupplierID	Unacceptable Source Supplier ID	null
UT	unitTrain	Unit Train	null
UU	townshipNo	Township Number	null
UV	townshipRangeNo	Range Number	null
UW	stateSenateDistrict	State Senate District	null
UX	stateAssemblyDistrict	State Assembly District	null
UY	fannieMaeLoanNo	Federal National Mortgage Association (Fannie Mae) Loan Number	Fannie Mae Loan Number
UZ	stateLegislativeDistrict	State Legislative District	null
V0	version	Version	null
V1	volumePurchaseAgreementNo	Volume Purchase Agreement Number	null
V2	visaType	Visa Type	null
V3	voyageNo	Voyage Number	null
V4	stateDepartmentI20FormNo	State Department I-20 Form Number	null
V5	stateDepartmentIAP66FormNo	State Department IAP-66 Form Number	null
V6	naftaComplianceNo	North American Free Trade Agreement (NAFTA) Compliance Number	NAFTA Compliance Number
V7	judicialDistrict	Judicial District	null
V8	institutionNo	Institution Number	null
V9	subServicer	Subservicer	null
VA	vesselAgentNo	Vessel Agent Number	null
VB	vaar	Department of Veterans Affairs Acquisition Regulations (VAAR)	Department of Veterans Affairs Acquisition Regulations
VC	vendorContractNo	Vendor Contract Number	null
VD	volumeNo	Volume Number	null
VE	vendorAbbreviationCode	Vendor Abbreviation Code	null
VF	vendorProductChangeNoticeNo	Vendor Change Identification Code	null
VG	vendorChangeProcedureCode	Vendor Change Procedure Code	null
VH	countyLegislativeDistrict	County Legislative District	null
VI	poolNo	Pool Number	null
VJ	investorNoteHolderID	Investor Note Holder Identification	null
VK	institutionNoteHolderID	Institution Note Holder Identification	null

VL	thirdPartyNoteHolderID	Third Party Note Holder Identification	null
VM	ward	Ward	null
VN	supplierOrderID	Vendor Order Number	null
VO	institutionLoanNo	Institution Loan Number	null
VP	vendorProductNo	Vendor Product Number	null
VQ	relatedContractLineItemNo	Related Contract Line Item Number	null
VR	vendorIDNo	Vendor ID Number	null
VS	vendorOrderNoSuffix	Vendor Order Number Suffix	null
VT	motorVehicleIDNo	Motor Vehicle ID Number	null
VU	preparersVerificationNo	Preparer's Verification Number	null
VV	voucher	Voucher	null
VW	standard	Standard	null
VX	vatID	Value-Added Tax Registration Number (Europe)	null
VY	lineSequenceNo	Link Sequence Number	null
VZ	sponsorsReferenceNo	Sponsor's Reference Number	null
W1	disposalTurnInDocumentNo	Disposal Turn-In Document Number	null
W2	weaponSystemNo	Weapon System Number	null
W3	manufacturingDirectiveNo	Manufacturing Directive Number	null
W4	procurementRequestNo	Procurement Request Number	null
W5	inspectorID	Inspector Identification Number	null
W6	federalSupplyScheduleNo	Federal Supply Schedule Number	null
W7	commercialAndGovEntityCAGE	Commercial and Government Entity (CAGE) Code	null
W8	suffix	Suffix	null
W9	specialPackagingInstructionNo	Special Packaging Instruction Number	null
WA	laborOrAffiliationID	Labor or Affiliation Identification	null
WB	americanPetroleumInstututeAPIWell	American Petroleum Institute (API) Well	null
WC	contractOptionNo	Contract Option Number	null
WCS	workCandidateSequenceNo	Work Candidate Sequence Number	null
WD	reviewPeriodNo	Review Period Number	null
WDR	withdrawlRecord	Withdrawal Record	null
WE	wellClassificationCode	Well Classification Code	null
WF	locallyAssignedControlNo	Locally Assigned Control Number	null
WG	vendorsPreviousJobNo	Vendor's Previous Job Number	null
WH	masterReferenceLinkNo	Master Reference (Link) Number	null
WI	waiver	Waiver	null
WJ	preAwardSurvey	Pre-Award Survey	null
WK	typeOfScienceCode	Type of Science Code	null
WL	federalSupplyClassificationCode	Federal Supply Classification Code	null
WM	weightAgreementNo	Weight Agreement Number	null
WN	wellNo	Well Number	null
WO	workOrderNo	Work Order Number	null
WP	warehousePickTicketNo	Warehouse Pick Ticket Number	null
WQ	interimFundingOrganizationLoanNo	Interim Funding Organization Loan Number	null
WR	warehouseReceiptNo	Warehouse Receipt Number	null
WS	warehouseStorageLocationNo	Warehouse storage location number	null
WT	brokersReferenceNo	Broker's Reference Number	null
WU	vessel	Vessel	null
WV	dealerID	Dealer Identification	null
WW	depositoryTrustCompanyID	Depository Trust Company Identification	null
WX	distributorsAccountID	Distributor's Account Identification	null
WY	waybillNo	Waybill Number	null

WZ	distributorsRepresentativeID	Distributor's Representative Identification	null
X0	debtorsAccount	Debtor's Account	null
X1	providerClaimNo	Provider Claim Number	null
X2	specificationClassNo	Specification Class Number	null
X3	defectCodeNo	Defect Code Number	null
X4	clinicalLabImprovementAmendmentNo	Clinical Laboratory Improvement Amendment Number	null
X5	stateIndustrialAccidentProviderNo	State Industrial Accident Provider Number	null
X6	originalVoucherNo	Original Voucher Number	null
X7	batchSequenceNo	Batch Sequence Number	null
X8	secondarySuffixCodeIndicator	Secondary Suffix Code Indicator	null
X9	internalControlNo	Internal Control Number	null
XA	substituteNationalStockNo	Substitute National Stock Number	null
XB	substituteManufacturersPartNo	Substitute Manufacturer's Part Number	null
XC	cargoControlNo	Cargo Control Number	null
XD	subsistenceID	Subsistence Identification Number	null
XE	transportationPriorityNo	Transportation Priority Number	null
XF	governmentBillOfLadingOfficeCode	Government Bill of Lading Office Code	null
XG	airlineTicketNo	Airline Ticket Number	null
XH	contractAuditorID	Contract Auditor ID Number	null
XI	fhImcLoanNo	Federal Home Loan Mortgage Corporation Loan Number	null
XJ	fhImcDeafultForeclosureSpecialistNo	Federal Home Loan Mortgage Corporation Default/Foreclosure Specialist Number	Fed Home Loan Mortgage Corp Default/Foreclosure Specialist
XK	mortgageeLoanNo	Mortgagee Loan Number	null
XL	insuredsLoanNo	Insured's Loan Number	null
XM	gnmaMortgageNo	Issuer Number	null
XN	titleXIXID	Title XIX Identifier Number	null
XO	sampleNo	Sample Number	null
XP	previousCargo	Previous Cargo Control Number	null
XQ	pierNo	Pier Number	null
XR	railroadCommissionRecordNo	Railroad Commission Record Number	null
XS	gasAnalyssiSourceMeterNo	Gas Analysis Source Meter Number	null
XT	toxicologyID	Toxicology ID	null
XU	universalTransverseMercatorNorth	Universal Transverse Mercator - North	null
XV	universalTransverseMercatorEast	Universal Transverse Mercator - East	null
XW	universalTransverseMercatorZone	Universal Transverse Mercator - Zone	null
XX	ratingPeriod	Rating Period	null
XY	otherUnlistedTypeOfReferenceNo	Other Unlisted Type of Reference Number	null
XZ	pharmacyPrescriptionNo	Pharmacy Prescription Number	null
Y0	debtor	Debtor	null
Y1	claimAdministratorClaimNo	Claim Administrator Claim Number	null
Y2	thirdPartyAdministratorClaimNo	Third-Party Administrator Claim Number	null
Y3	contractHolderClaimNo	Contract Holder Claim Number	null
Y4	agencyClaimNo	Agency Claim Number	null
Y5	deliveryTrailerManifest	Delivery Trailer Manifest	null
Y6	sortAndSegregate	Sort and Segregate	null
Y7	processingArea2	Processing Area	null
Y8	userID	User ID	null
Y9	currentCertificateNo	Current Certificate Number	null
YA	priorCertificateNo	Prior Certificate Number	null



YB	revisionNo	Revision Number	null
YC	tract	Tract	null
YD	buyerID	Buyer Identification	null
YE	railroadCommissionOilNo	Railroad Commission Oil Number	null
YF	lesseeID	Lessee Identification	null
YH	operatorAssignedUnitNo	Operator Assigned Unit Number	null
YI	refinerID	Refiner Identification	null
YJ	revenueSource	Revenue Source	null
YK	rentPayorID	Rent Payor Identification	null
YL	allowanceRecipientID	Allowance Recipient Identification	null
YM	resourceScreeningReference	Resource Screening Reference	null
YN	receiversIDQualifier	Receiver ID Qualifier	null
YO	formation	Formation	null
YP	sellingArrangement	Selling Arrangement	null
YQ	minimumRoyaltyPayorID	Minimum Royalty Payor Identification	null
YR	operatorLeaseNo	Operator Lease Number	null
YS	yardPosition	Yard Position	null
YT	reporterID	Reporter Identification	null
YV	participatingArea	Participating Area	null
YW	engineeringChangeProposal	Engineering Change Proposal	null
YX	geographicScore	Geographic Score	null
YY	geographicKey	Geographic Key	null
YZ	geographicIndex	Geographic Index	null
Z1	safetyOfShipCertificate	Safety of Ship Certificate	null
Z2	safetyOfRadioCertificate	Safety of Radio Certificate	null
Z3	safetyEquipmentCertificate	Safety Equipment Certificate	null
Z4	civilLiabilitiesOfOilCertificate	Civil Liabilities of Oil Certificate	null
Z5	loadLineCertificate	Load Line Certificate	null
Z6	deratCertificate	Derat Certificate	null
Z7	maritimeDeclarationOfHealth	Maritime Declaration of Health	null
Z8	federalHousingAdministrationCaseNo	Federal Housing Administration Case Number	null
Z9	veteransAffairsCaseNo	Veterans Affairs Case Number	null
ZA	supplier	Supplier	null
ZB	ultimateConsignee	Ultimate Consignee	null
ZC	connectingCarrier	Connecting Carrier	null
ZD	familyMemberID	Family Member Identification	null
ZE	coalAuthorityNo	Coal Authority Number	null
ZF	contractorEstablishmentCodeCEC	Contractor Establishment Code (CEC)	null
ZG	salesRepresentativeOrderNo	Sales Representative Order Number	null
ZH	carrierAssignedReferenceNo	Carrier Assigned Reference Number	null
ZI	referenceVersionNo	Reference Version Number	null
ZJ	universalRailroadRevenueWaybillID	Universal Railroad Revenue Waybill Identified Number (URRWIN)	Universal Railroad Revenue Waybill Identified Number
ZK	duplicateWaybillInRoute	Duplicate Waybill in Route	null
ZL	duplicateWaybillNotInRoute	Duplicate Waybill Not in Route	null
ZM	manufacturerNo	Manufacturer Number	null
ZN	agencyCaseNo	Agency Case Number	null
ZO	makegoodCommercialLineNo	Makegood Commercial Line Number	null
ZP	spouseTie	Spouse Tie	null
ZQ	nonSpouseTie	Non-Spouse Tie	null
ZR	replacementSupplierNo	Supplier (Replacement)	null
ZS	softwareApplicationNo	Software Application Number	null

ZT	millingInTransit	Milling in Transit	null
ZU	field	Field	null
ZV	block	Block	null
ZW	area	Area	null
ZX	countyCode	County Code	null
ZY	referencedPatternID	Referenced Pattern Identification	null
ZZ	mutuallyDefined	Mutually Defined	null