



UPS

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cXML Design Specifications

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1. Change Log

This log is updated each time this Process Document is updated. The log identifies the version number, the date the version was completed, the author of the changes, and a brief description of the changes.

Version	Date	Author	Description
1.0	4/5/10	Ariba, Inc.	Initial version of Document
2.0	5/10/10	Ariba, Inc.	Added list of valid Tax Category values Noted that Special Handling must be sent as part of Shipping Amount Sold-to email required for contract invoices
2.1	5/18/10	Ariba, Inc.	Accepted edits per Ariba internal review
2.2	6/10/10	Ariba, Inc.	Added Recycling Tax
3.0	7/9/10	Ariba, Inc.	Updated with field to send Tax Category
4.0	8/13/10	Ariba, Inc.	Added info on PO version numbering
4.1	9/2/10	Ariba, Inc.	Added UPS Bill To address
5.0	11/11/10	Ariba, Inc.	Changed backdating rule to 3 days
6.0	05/26/11	Ariba, Inc.	Added timestamp requirement on invoice date.
6.1	8/2/11	Ariba, Inc.	Added sample of a Contract Invoice
6.2	9/27/11	Ariba, Inc.	Added Reviewer Location
7.0	10/6/11	Ariba, Inc.	Added Context accounting fields and IT supplier extrinsics
7.1	10/27/11	Ariba, Inc.	Changed name of Reviewer Location extrinsic
8.0	12/21/11	Ariba, Inc.	Added Work Authorization number. Changed Reviewer Location extrinsic name.

2. Introduction

This document contains UPS specifications and requirements for supplier cXML invoice file transactions. Purchase order relevant data is included as well. The information in this document is specific to UPS' internal requirements, not necessarily the Ariba standard cXML invoice specification. For example, UPS may specify that a particular field is required, even if that field is not required per the general cXML guidelines. Invoice documents that do not adhere to the following requirements are likely to be rejected by the Ariba Supplier Network (Ariba SN) or UPS's eInvoicing system. At a minimum suppliers identified by UPS will need to receive test Purchase Orders and submit back test invoices successfully to UPS's application for final processing.

This is a supplemental guide detailing UPS's specific PO and invoice requirements which MUST be used concurrently with Ariba's standard cXML DTD's (<http://cxml.org>) and other documentation (<http://supplier.ariba.com/help>).

2.1. Audience

This document is intended for suppliers who integrate with the Ariba Supplier Network via cXML for the transmission of purchase orders and invoices. Suppliers using the on-line invoice user interface from their Network accounts (PO Flip) do not need to reference this document.

2.2. Requirements Overview

Suppliers that would like to automate the process of sending invoices to UPS will need to do so using this specification in conjunction with the Ariba specific guides noted below. The purpose of this document is to describe cXML specification from a technical point of view and provide a functional description of how this specification can be used. This section of the document will describe the functional requirements and some of the rules associated with the creating a cXML invoice.

The following section provides details regarding the types of cXML invoices that UPS supports, the required format for specific invoice scenarios, and the required content needed to process and pay a cXML invoice successfully. Addressed as well are Purchase Order specific details. **UPS requires all suppliers provide the Purchase Order Acknowledgement and Ship Notice transactions. These may be sent electronically using the Ariba supported ConfirmationRequest and ShipNoticeRequest cXML DTD's or generated manually via suppliers account on Ariba SN. For electronic implementation, supplier is directed to use the standard Ariba guidelines and supporting documentation found at the URL's below.**

To download the complete cXML standard, please visit: <http://www.cxml.org>. Additional details regarding cXML invoice, confirmation request and ship notice transactions are available via your supplier account on the Ariba Supplier Network. To access, log on to your Ariba SN account at: <https://supplier.ariba.com> and navigate to the Help link located in the upper right hand corner of the Home page. Scroll down to the relevant documentation including:

- cXML Release Notes: this will take you to the url: <http://cxml.org>. Click on the Downloads link from the menu on the left of the page. Under Complete Downloads, click on [InvoiceDetail.zip](#) for the InvoiceDetailRequest.dtd.
- <http://cxml.org> Download cXML 1.2.021 for the OrderRequest
- <http://cxml.org> cXML 1.2.021 User's Guide
- <https://supplier.ariba.com> Help link: Ariba cXML Solutions Guide
- <http://cxml.org> Download Fulfill.dtd for ConfirmationRequest / ShipNoticeRequest

2.3. Support

Depending on your transaction volume you may be required to subscribe to Ariba Premier Membership. Premier Membership gives your organization access to many premium features and services that are exclusively available to only Premier Members.

For more information about Ariba's Supplier Membership program, access the supplier membership website at: www.ariba.com/suppliermembership.

Optionally, for ongoing electronic document support, you may want to subscribe to Supplier Technical Support (Ariba STS). To find out if you have Supplier Technical Support (STS) and for details on Premier Membership, log on to <https://supplier.ariba.com>, click **Manage Services** on the Property Navigator toolbar on the upper right of the page to view your account status with regards to program subscription.

For program FAQ, Fact Sheet, and sign-up instructions, please go to <http://www.ariba.com/suppliersupport>.

Until subscribed to one of Ariba's support programs, limited assistance regarding account registration, access and configuration is available from Ariba:

By Telephone: 1-800-577-1522

By Web form:

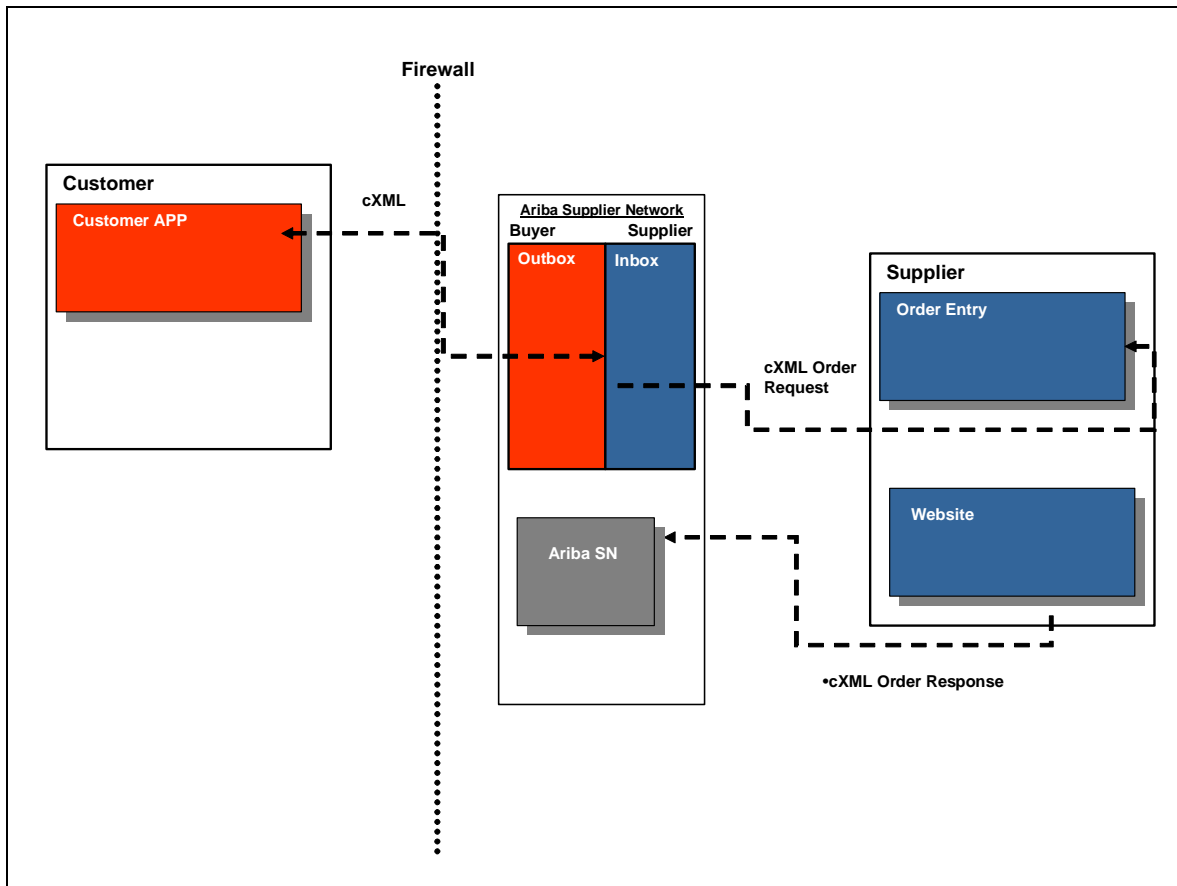
If you can log into your Ariba SN Account	If you cannot log into your account because you forgot your username or password
---	--

<ul style="list-style-type: none"> ▪ Go to http://supplier.ariba.com ▪ Log in with your company's username and password ▪ Once logged in, click on the '<i>Help</i>' link located on the upper right hand side of the page and choose <i>Contact Support</i>. ▪ Completely fill out the web form and submit 	<ul style="list-style-type: none"> ▪ Go to http://supplier.ariba.com ▪ Click on the "<i>Forgot Username</i>" or "<i>Forgot Password</i>" link in the middle of the page
---	---

In addition, all supplier accounts have access to self-help tools and comprehensive documentation resources available by clicking the HELP button from supplier accounts.

3. Architecture, Configuration and Data Validation

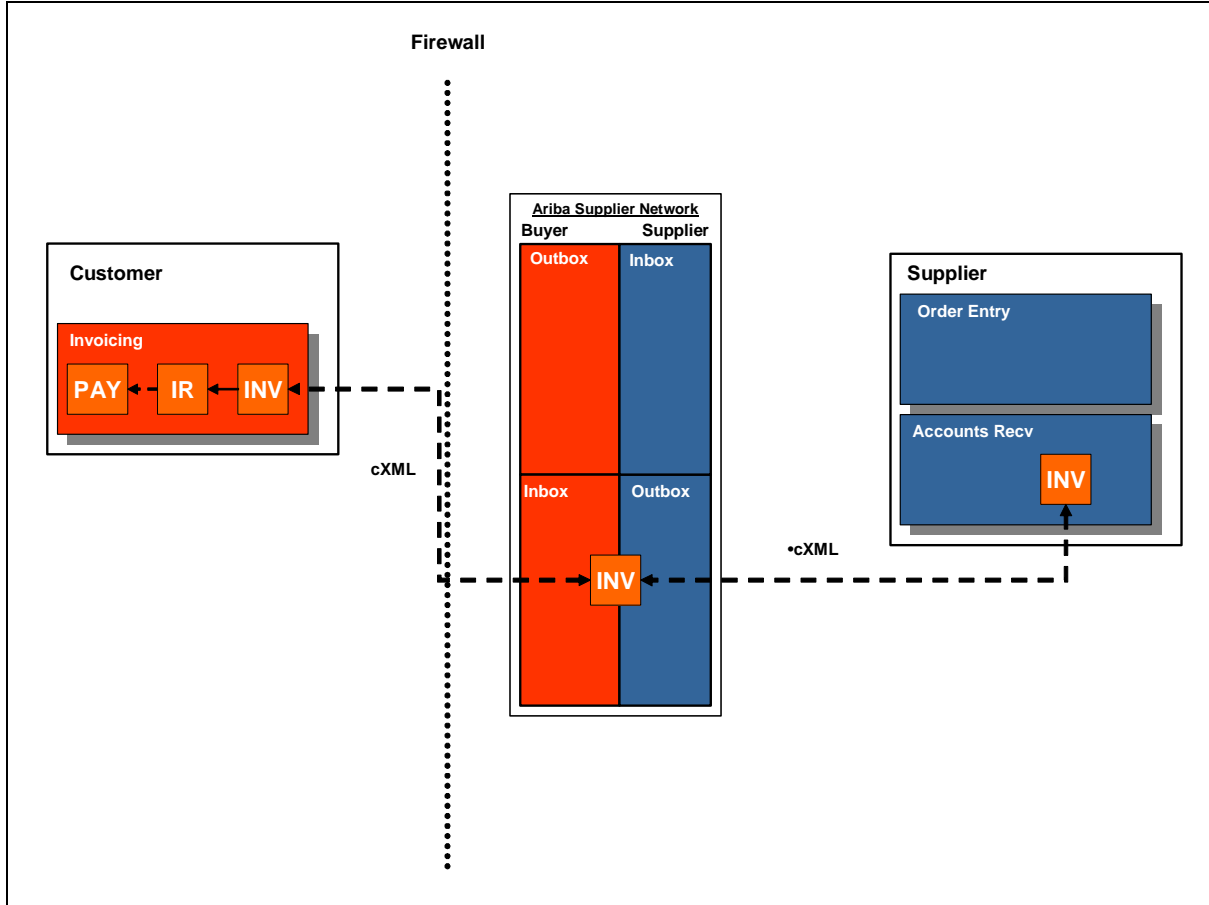
3.1. Architecture: OrderRequest



The above diagram depicts the different systems working together to automate this purchase order process. A step-by-step description is as follows:

- Customer user creates order
- cXML OrderRequest is transmitted from UPS to Ariba SN.
- Ariba SN stores a copy of the OrderRequest in the buyer's Outbox and the supplier's Inbox.
- cXML Order sent to supplier's network commerce hub via URL specified on Ariba SN.
- PO sent to supplier's internal order management system and fulfilled.
- Supplier website returns Order Response document to Ariba SN, which tells the buyer that supplier successfully received and parsed the purchase order.

3.2. Architecture: InvoiceDetailRequest



The above diagram depicts the different systems working together to automate this invoice process. A step by step description is as follows:

- Supplier generates a cXML invoice from internal system. This will usually be the supplier's accounts receivable system.
- Supplier transmits the cXML to the Ariba Supplier Network by performing an https post to a specific URL. Ariba SN has a different set of URLs for shared-secret-authenticated and certificate-authenticated cXML documents as shown below:

Authentication Method	Ariba SN URL
shared secret	https://service.ariba.com/service/transaction/cxml.asp
certificate	https://certservice.ariba.com/service/transaction/cxml.asp

The certificate URL works for both certificate- and shared-secret-based authentication.

For additional details on posting invoices, please see the *cXML User's Guide* (chapters 1 and 2) available from your account by clicking the HELP button or from www.cxml.org.

- When the document is received at the Ariba SN, certain syntactic checks are made to ensure the invoice is properly formatted before it is sent to UPS. If the invoice does not pass all the checks it will fail and the supplier will receive a Failed Invoice message. If everything is correct at the Network level, the invoice is forwarded to UPS.

- Once UPS receives the invoice there are a number of checks performed to ensure the data is correct and it is then sent for approval to the contact in the invoice. The checks on the data may result in an invoice rejection and a Rejected Invoice message will be sent to the supplier. The reasons an invoice may be rejected are outlined later in this document.
- Once the invoice is approved it is then sent to UPS Accounts Payable for payment.

3.3. Ariba SN Configuration

To post cXML invoices to the Ariba SN, you must configure your production and test accounts appropriately. Please follow the steps below to enable your account(s) appropriately.

1. Login to your production account on the Network.
2. From the Home page, click the **Administration** tab.
3. From the **Administration** page, click the **Configuration** link.
4. Under **Electronic Order Routing**, click the check box and then click on the **Configure** link. If you have already configured your account, this link will read **Configured** with the date that the configuration was completed. You can always update your configuration by clicking on the **Edit Configuration** link.
5. Click on the **Configure cXML setup** link at the top of the page.
6. Select your preferred authentication method: Certificate or Shared Secret. This document addresses Shared Secret authentication.
7. Enter an appropriate Shared Secret and make a note of the shared secret you have entered. The shared secret acts like a password for when you will be submitting invoices to the Ariba SN and must be populated as part of the Sender credential at the header of your invoice transaction.
8. Click OK.
9. Click Save.
10. Click on **Electronic Invoice Routing** and then click the **Configuration Required** link. If you have already configured your account, this link will read **Configured** with the date that configuration was completed. You can always update your configuration by clicking on the **Edit Configuration** link.
11. Select cXML from the drop down menu under the **Sending Method** section of the page.
12. Enter the required email address field and click the checkbox if you want to receive notification when an invoice fails or is undeliverable.
13. Click the **Save** button at either the top or bottom of the page.
14. Click **Done**.
15. Click the **Switch to Test Account** link on the upper right hand side of the screen from the Home page.
16. Follow the same steps above (1-13) to configure your test account accordingly.

NOTE: Ariba SN configuration supports the capability to route order types using different methods. Suppliers, for example, can route new orders via cXML, change orders via fax and orders with attachments via email to accommodate internal transaction processing.

Order Response Account Configuration

In order to send order confirmation and ship notice information via cXML, it is required that you set the response document configuration to cXML as well as order and invoice. To configure for response documents:

- Login to your production account on the Network.
- From the Home page, click the **Administration** tab.
- From the **Administration** page, click the **Configuration** link.
- Under **Electronic Order Routing**, click the check box and then click on the **Configure** link. If you have already configured your account, this link will read **Configured** with the date that the configuration was completed. You can always update your configuration by clicking on the **Edit Configuration** link.
- Next to the Order Response Document Type, select cXML from the routing method drop down list.
- Save your changes.

- **Make sure you complete this same configuration in your test and production accounts.**

4. Purchase Order Specifics

Review this section if you are implementing the cXML OrderRequest for order receipt.

4.1. Supported Order Types

UPS will support the following order types:

- New orders
- Change / cancel orders
- Non-catalog items
- Service purchase orders

4.2. Purchase Order Versioning & Change PO

UPS will use order version numbering on Purchase Orders. The version number will be sent in the .../OrderRequestHeader/@orderVersion attribute.

Note: The initial/original PO will be version “0” and subsequent change orders will be incremented by 1.

Examples:

Original PO:

```
<OrderRequestHeader orderDate="2010-06-27T13:40:17-04:00" orderID="UPSTESTPO"
orderType="regular" orderVersion="0" type="new">
```

Change PO:

```
<OrderRequestHeader orderDate="2010-06-27T13:40:17-04:00" orderID="UPSTESTPO"
orderType="regular" orderVersion="1" type="update">
```

4.3. Purchase Order Extrinsic

Additional data sent on the PO that is not part of the standard cXML format.

Line Level

- **customersPartNo** – UPS’ Item Part Number; may sometimes contain the Manufacturer Part Number
- **Ship Via** – method of shipment (e.g. “UPS”)
- **FOB** – example: “Destination”

4.4. Purchase Order Comments

UPS POs may include comments. Comments may include a URL link to UPS’ Terms & Conditions. This message will be captured at the header of the OrderRequest.

Example:

```
<OrderRequest>
  <OrderRequestHeader>
    <Comments>
      Terms & Conditions may be viewed at https://knowledge.ariba.com/UPS
    </Comments>
```

4.5. Purchase Order Settings

Review UPS's Order Routing Rules from the Customer Relationships page of your account for information regarding change orders and cancel orders with orders that have a shipped status. Customer Order Routing Configuration Rules (and invoice rules) are visible from the Customer Relationships page by clicking on UPS's name in your Current Customer list.

Below are UPS current PO settings:

Allow change orders for fully shipped orders
Allow change orders for partially shipped orders
Allow change orders for invoice aggregation (one invoice for multiple purchase orders)
Do not allow cancel orders for fully shipped orders
Do not allow cancel orders for partially shipped orders

4.6. Notes / General Guidelines: Buyer ANIDs

- Refer to "cXML_1.2.21.pdf" for detailed information on the cXML InvoiceDetail specification. This document can also be obtained at the following site:
<http://www.cxml.org>.
- Additional test and development tools are available at the following site:
<https://alive.riba.com/supplier/>. You will need to register to access the information available.
- cXML documents cannot have the ampersand character "&" unless it is properly escaped using the syntax: &
- **Ariba SN test accounts are identified by appending "-T" to the production number. For example, the Network production account "AN01003424084" test account would be "AN01003424084-T".**

4.7. Header Element

The Header Element contains the cXML addressing and authentication information. The Header child elements are the From, To, and Sender. All elements below are mandatory. Please reference the cXML User's Guide for element definition.

4.8. From Element (Inbound from Supplier)

The Header.From element identifies the supplier who is the creator of the Invoice. The "From" element contains the Credential which identifies the supplier. An example is below:

```
<From>
  <Credential domain="NetworkID">
    <Identity>AN0100011111-T</Identity> ← Supplier test account ANID
  </Credential>
</From>
```

4.9. To Element (Inbound from Supplier)

The Header.To element identifies the recipient of the Invoice, ie. UPS. The Credential element contains UPS Ariba SN information. This can be hard-coded to use UPS's NetworkID number. An example is below:

```
<To>
  <Credential domain="NetworkID">
    <Identity>AN01003424084-T</Identity> ← UPS Test Account ANID
  </Credential>
</To>
```

NOTE: For testing purposes you will have a relationship created with UPS's Test account using the ANID noted above. Production data will be sent and received by UPS's production ANID: AN01003424084. Test data will be sent and received by UPS's test ANID: AN01003424084-T.

4.10. Sender Element (Inbound from Supplier)

The Header.Sender element information is used by the Ariba SN to authenticate the From sender. An example is below:

```
<Sender>
  <Credential domain="NetworkID">
    <Identity>AN01000111111-T </Identity>
  <SharedSecret>***** </SharedSecret> ← supplier shared secret configured in supplier acct. on ASN
  </Credential>
  <UserAgent>Ariba Network V1.1</UserAgent>
</Sender>
```

4.11. Order Confirmation

- UPS requires all suppliers to provide the Purchase Order Acknowledgement transaction (See Section 2.2 of this document for more information)
- **If rejecting an item on an order, suppliers must reject the entire order. Item level rejection is not supported.**

5. Invoice Specifics

5.1. Ariba SN Invoice Validation

The Ariba SN will reject invoices under the following conditions:

- Invoice files that do not meet the defined cXML specification or are missing required cXML data elements
- Invoices greater than the Network supported file size of 4 MB or containing greater than 3,000 line items
- Invoices that fail to validate against the Document Type Definition (DTD)

In addition to the above network validation rules, UPS has configured their **buyer account** on the Ariba SN to **Reject** invoices under the following criteria, which will cause the invoice Status to go to **Failed** state:

- Invoices with detailed service information (Invoices with cXML InvoiceDetailServiceItem elements).
- Invoices against PO's not received via Ariba SN
- Cancelled Invoices
- Invoices with a change in currency for unit price from what was on the PO
- Invoices with a change in unit price from what was on the PO
- Invoices with a change in unit of measure from what was on the PO
- Invoices with an increase in quantity from what was on the PO
- Invoices with an increase in line item subtotal from what was on the PO
- Invoices with a change in part number from what was on the PO
- Invoices with additional line items that were not on the PO
- Invoices with a **change** in payment discount terms from what was on the PO
- Invoices backdated greater than **"3 DAYS"**
- Invoices with summary level shipping tax
- Invoice missing bill-to address
- Invoice missing remit-to address
- Invoice missing ship from or ship to address
- Invoices with a change in Ship To from what was on the PO
- Invoices with a change in Bill To Info from what was on the PO

Additional Validation Rules

- Enforce strict address validation for required address fields: Complete addressing (name, address) must be provided for required address roles.

Example of the minimum requirement:

```
<InvoicePartner>
  <Contact role="billTo">
    <Name xml:lang="en">Ariba Headquarters</Name>
    <PostalAddress>
      <Street>1314 Chesapeake Terrace</Street>
      <City>Sunnyvale</City>
      <State>CA</State>
      <PostalCode>94089</PostalCode>
      <Country isoCountryCode="US"></Country>
    </PostalAddress>
  </Contact>
</InvoicePartner>
```

- UPS will only allow the reuse of invoice numbers in the case that the original invoice **Failed at the Network level or was Rejected by UPS application.**
- UPS allows for omission of payment terms though if sent must match the PO.**

Buyers may also specify specific tax rules for suppliers and corresponding tolerances. For example, a buyer can configure their account to allow for Sales Tax to be charged to a specific percentage (i.e.: supplier can't charge sales tax greater than 8%).

Note: you may view the invoicing rules UPS has set up for you as a supplier at the Network level by performing the following steps:

1. Login to your supplier account on the Ariba SN.
2. Click on the **Administration tab at the top of the page** then click **Customer Relationships** from the navigational bar just below.
3. Click on **UPS** under your list of **Current** trading partners
4. Scroll down to the Invoice setup section.

You are only able to view invoice rules for customers which have enabled you as an invoicing supplier on Ariba SN.

5.2. UPS Specific Validation

Invoices defined:

- Invoice against an existing purchase order (referenced by this document as a **PO Invoice**)
- Invoice against order or contract not received via Ariba SN (referenced by this document as a **Non-PO Invoice**)
- Invoice against contract or master agreement (collaborative invoice). A contract number is required for Non-PO invoices against contract.

UPS supported invoice types:

- Individual Detail Invoice** – applies against a single purchase order referencing line items; line items may be material items or service items
- Partial Invoice** – applies against specific line items from a single purchase order; line items may be material items or service items
- Invoice Against Services** – standard material invoices that “model” service lines
- Credit (Negative Invoice)** - item level credit supported by sending standard invoice with negative quantity and positive dollar amount at each line item to which credit applies

- **lineLevelCreditMemo** – item level credit supported by sending the <InvoiceDetailRequestHeader> attribute “purpose” equal to “lineLevelCreditMemo”. Ariba SN will default all amounts and quantities to negative on suppliers behalf. **This is the UPS preferred credit type**
- **Header Credit Memo** – UPS prefers item level credits, but will support the use of the Credit Memo feature on the Ariba SN and will accept cXML invoices with the <InvoiceDetailRequestHeader> attribute “purpose” equal to “creditMemo”.
- **Header Debit Memo**
- **Non-PO** invoices against **CONTRACT**.

Non-supported invoice types:

- **Non-PO** - invoice against purchase orders not received via Ariba SN
- **Paper Invoice** – UPS requests that invoices be submitted electronically through Ariba SN for all enabled suppliers doing business at enabled sites.
- **Invoices for Purchasing Cards (P-Cards)**
- **Information Only Invoices (isInformationOnly)**
- **Duplicate Invoices** – Invoice numbers may not be reused unless the original invoice **failed** validation on the Ariba SN or was **rejected** by UPS
- **Header Invoice**– a single invoice applying to a single purchase order but not providing line item details
- **Summary Invoice** – a single invoice applying to multiple purchase orders, also called consolidated invoices
- **Cancel** – UPS does not support the Network capability to cancel invoices

5.2.1. Unit of Measure

Ariba applications and transactions support the UNUOM (United Nations Unit of Measure) standard. Suppliers must be complaint with UNUOM in transaction receipt and posting subsequent transactions to Ariba SN.

5.2.2. Tax Requirements

- Tax elements are required and may be sent at either the summary or item level
- Tax can be passed as a dollar amount or as a percentage. Tax percentage must be passed as percentage values, not as fractional amount values. For example, a 9% tax rate should be represented as **9.0**, not 0.09.
- If sending tax, one of the following tax category values **must** be sent in the **../Tax/TaxDetail/Description** field:

EXCISE TAX
 FREIGHT SURCHARGE
 FUEL SURCHARGE
 FUEL TAX
 LUBRICATION OIL TAX
 MOTOR OIL TAX
 OWNERSHIP TAX
 POLLUTANT TAX
 PRIVILEGE TAX
 RENTAL TAX
 SMM TAX
 STATE NEW TIRE TAX
 SURCHARGE
 TRANSACTIONAL PRIVILEGE TAX
 WASTE DISPOSAL TAX
 WATER QUALITY TAX
 RECYCLING TAX

(These values are case-sensitive)

- If tax does not apply to the invoice, a summary tax amount of zero is required (cXML requirement).

Note: If you have a resale # from UPS, then do not send a tax amount. Please just send the summary tax of zero to satisfy the cXML format requirement.

5.2.3. Bill To Address Information

- UPS will be using one bill-to address. The billing address is:

**ACS - AP
P.O. Box 30123
Salt Lake City, UT 84130**

5.2.4. Remit To Address Information

- UPS will provide the Remit-To IDs and addresses on record with UPS to suppliers as part of the on-boarding process. Remit-To IDs and addresses are typically defaulted onto NEW supplier accounts. Please review for accuracy. Invoices will be rejected that have incorrect Remit-To IDs.
- Remit-To configuration may be viewed in the Settlement configuration section of your supplier account on Ariba SN.
- Remit-To ID is required on the invoice. Contact UPS directly for your Remit-To ID if it is not present on your supplier account, or if you have any questions regarding your Remit-To ID.
- Suppliers should notify UPS of any changes to their Remit-To address information.

5.2.5. Contract Invoice requirements

5.2.5.1. Requester Email/Reviewer Location

Suppliers sending an invoice against a contract are **required** to provide either the **requester's email address** as part of the Sold-To contact role **or** the **Reviewer Location** code. **A contract invoice without either value will be rejected by UPS.** Sample syntax as follows:

Requester Email:

```
<InvoicePartner>
  <Contact role="soldTo">
    <Name xml:lang="en-US">UPS BUYER</Name>
    <PostalAddress><Street> 1400 North Hurstbourn Pkw 4-B</Street>
      <City>Louisville</City>
      <State>KY</State>
      <PostalCode>40223</PostalCode>
      <Country isoCountryCode="US">United States</Country>
    </PostalAddress>
    <Email>test@email.com</Email>
  </Contact>
</InvoicePartner>
```

Reviewer Location:

Reviewer location should be sent in a header level Extrinsic field called **locationNo**

Example:

```
<InvoiceDetailRequest>
  <InvoiceDetailRequestHeader invoiceDate="2011-07-05T07:50:52-07:00" invoiceID="INVabc123"
    operation="new" purpose="standard">
    ...
    <Extrinsic name="locationNo">TEST REVIEWER LOCATION</Extrinsic>
```

</InvoiceDetailRequestHeader>

Suppliers can request the list of valid location codes from UPS if needed.

5.2.5.2. Context Fields

Depending on the type of contract items you are invoicing, you may need to provide additional information for the invoice line items in the **Context** and **Attribute** fields. **Suppliers only need to provide this information if their local UPS contact has specifically instructed them to do so.**

These values should be sent at the **line item** level in the [...Distribution/Accounting/AccountingSegment/@id](#) attribute.

context	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "Project"
attribute1	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "cus_Attribute1"
attribute2	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "cus_Attribute2"
attribute3	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "cus_Attribute3"
attribute4	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "cus_Attribute4"
Attribute5	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "cus_Attribute5"
Attribute6	/cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/@id where /cXML/Request/InvoiceDetailRequest/InvoiceDetailOrder/InvoiceDetailItem/Distribution/Accounting/AccountingSegment/Name = "cus_Attribute6"
Item Number	<AccountingSegment id = "9746010002"> <Name xml:lang = "en">BusinessUnit</Name> <Description xml:lang = "en">ID</Description> </AccountingSegment>
Charge To Location	<AccountingSegment id = "0376DEFAULT"> <Name xml:lang = "en">Company</Name> <Description xml:lang = "en">ID</Description> </AccountingSegment>
Code Combination	<AccountingSegment id = "CodeCombination"> <Name xml:lang = "en">cus_CCID2</Name> <Description xml:lang = "en">cus_CCID2</Description> </AccountingSegment>

JDC Code	<pre> <AccountingSegment id = "025-0099"> <Name xml:lang = "en">Product</Name> <Description xml:lang = "en">ID</Description> </AccountingSegment> </pre>
----------	--

Example:

```

<Distribution>
  <Accounting name="DistributionCharge">
    <AccountingSegment id="CLAIM"> (Context value goes here)
      <Name xml:lang="en">Project</Name>
      <Description xml:lang="en">Context</Description>
    </AccountingSegment>
    <AccountingSegment id="Shipper Number"> (Attribute1 value goes here)
      <Name xml:lang="en">cus_Attribute1</Name>
      <Description xml:lang="en">cus_Attribute1</Description>
    </AccountingSegment>
    <AccountingSegment id="Ldi Number"> (Attribute2 value goes here)
      <Name xml:lang="en">cus_Attribute2</Name>
      <Description xml:lang="en">cus_Attribute2</Description>
    </AccountingSegment>
  </Accounting>
  <Charge>
    <Money currency="USD">0.00</ Money > (A value must be sent here – '0.00' is OK)
  </Charge>
</Distribution>

```

Refer to the **UPS Context Values** table shown below for a description of the information to provide in each **Attribute** field.

Context Type	Attribute 1	Attribute 2	Attribute 3	Attribute 4	Attribute 5	Attribute 6
ADJ	Adjustment Code					
AIRCONT	Air Container Number					
AIRROUTE	Air Route Number					
APPROP	Appropriation Number					
AUTOSLIC	Autoslic Number					
CENTER	Center Number					
CHECKNUM	Check Number					
CLAIM	Shipper Number	Ldi Number				
COMPEQUIP	Serial Number	Model Number				
EMPID	Employee Number					
EMPRRDD	Gems ID	Employee RRDD				
ENGINE	Engine Number					
FUEL	Tank Location					
FUELTX	Fuel Tax					
GATEWAY	Location					
LOCALTX	Local Tax Code					
NEWVEH	Vehicle Type	Vehicle Number	Auto Job Build			
PAR	Par Number					
PARAPPROP	Par Number	Appropriation Number				
PARAPPROPCONTRACT	Par Number	Appropriation Number	Contract Number			
PPD	Account	Prepayment MMY	Center			

PPDRENT	Center Number	Payment frequency	Account			
RRDD	RRDD Number					
SCS	SCS Center	Product	Client			
SCS2BALSHT	RRDD Number	Product	Client			
SCS2CENTER	SCS Center	Product	Client			
SURCHARGE	Fuel					
TAIL	Tail Number					
UNIONLOC	Union Local Number					
USPSEXPENSE	USPS Expense Code					
USPSREGION	USPS Region Code					
VEH	Car Number	Operation Type				

5.3. Invoice Extrinsic for IT Suppliers

This section lists ASSET fields specific to IT Suppliers only

NOTE: Suppliers only need to provide this information on a invoices if UPS has specifically instructed them to do so. These fields should be sent at the **line item** level on the invoice.

Extrinsic name	Description
serialNumber	Serial Number
warrantyExpirationDate	Warranty Expiration Date
macAddress	MAC Address
modelBox	Model Box
modelBarCode	Model Bar Code
serialBox	Serial Box
barCodedSerialNo	Serial Bar Code
partBox	Part Box
partBarcode	Part Barcode

Example:

```
<InvoiceDetailItem quantity="1" invoiceLineNumber="3">
...
  <Extrinsic name=" serialNumber ">1234567</Extrinsic>
</InvoiceDetailItem>
```

5.4. Work Authorization Number

If you have been instructed to provide a UPS Work Authorization Number on your invoice, please provide it in a header level extrinsic named **authorizationNo**. Example:

```
<InvoiceDetailRequest>
  <InvoiceDetailRequestHeader invoiceDate="2011-07-05T07:50:52-07:00" invoiceID="INVabc123"
    operation="new" purpose="standard">
...
    <Extrinsic name=" authorizationNo">1223333</Extrinsic>
  </InvoiceDetailRequestHeader>
```

5.5. Shipping & Special Handling Charges

Shipping Address

- Ship-to and Ship-from address information is required on all invoices.
- Shipping address information is supported at the header or line level.

UPS will send suppliers a ship to code at the header level on the cXML OrderRequest. This syntax as is follows:

```
<ShipTo>
<Address
  addressID="9091" isoCountryCode="US">
```

where the addressID corresponds to a unique ship-to location. For a complete list of these codes, contact the UPS Services Procurement Help Desk at <https://ups.crmdesk.com>.

Shipping Amount

- Shipping charges are optional but if included, may be passed at the summary or line level.

Special Handling

- Special handling charges are optional but if included, they **must be sent as part of the Shipping Amount**. They should not be broken out separately.

5.6. Ariba SN Invoice Status Updates

Whenever an invoice is rejected, UPS's ERP will check to see if that invoice originated from Ariba SN.

- If the invoice did originate from Ariba SN, UPS's ERP sends a status update back to Ariba SN.

UPS can send the following standard status updates to suppliers:

- **Processing** – The invoice was received by the buying organization and is being processed. Note: Online status may display as 'Sent' or 'Acknowledged'.
- **Reconciled** – The invoice reconciled. The amounts in the invoice have not yet been paid. Note: Online status may display as 'Approved'.
- **Rejected** – The invoice failed to reconcile. UPS is rejecting the invoice. The Comments element should contain text explaining why the invoice was rejected, and the actions the supplier should take. Suppliers can view comments explaining why the invoice was rejected by accessing the invoice from their Ariba SN outbox and clicking on the History tab. Suppliers can also configure their account to receive invoice status notifications via email on the *Configuration -->Email Notifications* page of their account. Suppliers can resubmit a corrected invoice. The same invoice number can be used for invoices that have a Rejected or Failed status.
- **Paid** – The invoice has been paid by UPS.

5.7. Invoice Detail Request Element

The InvoiceDetailRequest element represents the cXML Invoice. The InvoiceDetailRequest child elements group the Invoice data by header, line items and summary information. The child elements are as follows:

- InvoiceDetailRequestHeader – this element contains all the Invoice header information and the line item details
- InvoiceDetailOrder – contains the line items and associated purchase order (if applicable)
- InvoiceDetailSummary – summary invoice information such as tax, discounts, and total.

6. cXML Mapping

The following attributes and elements are either required or specifically not supported by UPS.

Only UPS related data elements impacted per requirements described above are noted. The mapping below is **not representative** of all cXML InvoiceRequest.DTD requirements for compliant transactions. Suppliers must use the standard Ariba cXML guidelines and DTD's for successful implementation.

6.1. InvoiceDetailRequestHeader

This is the actual header of the Invoice and contains the following fields.

Attribute	Description	Notes
invoiceID	A supplier-generated identifier for the invoice.	Required This value must be unique. 50 character limit; All CAPS, alphanumeric and dash (-) only; no special characters
Purpose	Purpose of the invoice.	Required "standard", "lineLevelCreditMemo", "creditMemo", "debitMemo"
operation	Determines type of invoice	Required "new"
invoiceDate	Date and time the invoice was created.	Required Should be within 2 days of the transmission of the invoice. Timestamp must be sent. Example: 2010-05-26T14:30:00-05:00 If no timestamp is sent, the Ariba Network will default the time to midnight and this may cause an issue if the invoice date is the same as the PO date.

6.1.1. InvoicePartner

InvoicePartner defines a party involved in invoicing. **The Bill To, Remit To, roles are required.** Bill To and Ship To must match what was received on the PO.

Attribute	Description	Notes
Contact role="billTo"		Required
addressID	Bill To addressID	Required
Name	Bill-To Company Name. Free-form name	Required
PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>		Required

Contact role="remitTo"		Required
addressID	Remit To address ID	Required Contact UPS directly for your Remit-To ID. If you have more than one Remit-To ID, you will want to use the SystemID element from the OrderRequest to determine which Remit-To ID to send back on the invoice. UPS will let you know which SystemID is relevant to which Remit-To ID for you as the supplier for mapping services.
Name	Supplier Remit To Company Name. Free-form name	Required
PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>		Required

6.1.2. InvoiceDetailShipping

InvoiceDetailShipping contains shipping related details of the order: ShipTo and ShipFrom are required. Ship To must match what was received on the PO.

Attribute	Description	Notes
Contact role="shipTo"		Required
Name	Ship-To Company Name (Customer site or plant). Free-form name.	Required
PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>		Required
Contact role="shipFrom"		Required

Name	Ship-From Company Name. Free-form name.	Required
PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>		Required

6.1.3. IdReference identifier

Suppliers who are paid via EFT can optionally pass bank routing information on the cXML invoice. This data is supported after the remitTo occurrence of the <Contact> element is closed and before the close of <InvoicePartner>.

Example:

```
<InvoicePartner>
  <Contact role="remitTo" addressID="Test1234">
    <Name xml:lang="en">ABC Supplier</Name>
    <PostalAddress>
      <DeliverTo>krs</DeliverTo>
      <Street>8th Ave</Street>
      <City>Sunnyvale</City>
      <State>CA</State>
      <PostalCode>94043</PostalCode>
      <Country isoCountryCode="US">United States</Country>
    </PostalAddress>
  </Contact>
  <IdReference identifier="123456789" domain="bankRoutingID"/>
  <IdReference identifier="987654" domain="accountID"/>
</InvoicePartner>
```

Both the IdReferenceIdentifier and the domain are required.

6.1.4. InvoiceDetailLineIndicator

Indicates the presence of invoicing details at the line item level. By default, all indicators are set to false, assuming that these details are included at the header level.

Attribute	Description	Notes
IsTaxInLine	Indicates if Tax is provided at invoice line level.	Optional If sending tax at item level only. Set the value to "yes".
IsShippingInLine	Indicates if Shipping is provided at invoice line level.	Optional Set to "yes" if providing at item level

6.2. InvoiceDetailOrder

Indicates the beginning of line items section of the invoice. InvoiceDetailOrder is a parent to the following child elements:

- InvoiceDetailOrderInfo
- InvoiceDetailItem
 - Unit of Measure
 - InvoiceDetailItemReference
 - Unit Price
 - Subtotal
 - NetAmount
 - Distribution

6.2.1. InvoiceDetailOrderInfo

Defines information related to the corresponding order, including order reference. This information is used to match the invoice with the corresponding purchase order.

6.2.2. Referencing the PO number on the invoice

PO-based requirements

- **A valid UPS purchase order number is required for all Ariba PO-based invoices.**
Note: PO's received prior to e-enablement, should not be invoiced through Ariba Supplier Network and should be invoiced using your current method with UPS.
- For a PO based Invoice, the **OrderReference element orderID attribute** should be used to store this information.
- **The orderID is the purchase order number.**
- **The invoiceID is the suppliers unique invoice number on the inbound invoice transaction**

PO Matching

Ariba SN performs document matching immediately after cXML validation to find pre-existing purchase orders.

- If invoices use **payload ID in the DocumentReference element**, but that value does not match purchase orders on Ariba SN, Ariba SN considers the purchase orders to be external.

Example: <OrderReference orderID="PO4000118">

```
<DocumentReference
payloadID="1165611125703.425570795.000000219@RyKVBLhncvPz3rDQcL4pMmG+3
Zs="/> ← the header payloadID of the PO
</OrderReference>
```

- If invoices use only **orderID** and **orderDate**, Ariba SN attempts to match based on the purchase order number and optional order date.

Example:

```
orderID and orderDate are mapped at the header as follows:
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
....
<<OrderIDInfo orderID="PO4000118" orderDate="2007-01-01T00:00:00-12:00/>
  </InvoiceDetailOrderInfo>
```

- If invoices use only **orderID** and **orderDate**, and those values match multiple purchase orders, Ariba SN rejects the invoices.

- If invoices use both **payload ID** and **orderId**, Ariba SN makes sure these values match the same purchase orders. If they do not match, Ariba SN considers the purchase orders to be external, even if payloadID matches a purchase order.
- If invoices match an obsolete purchase order, Ariba SN rejects the invoices.

Successful Matches

If Ariba SN successfully matches invoices with purchase orders, it creates online hyperlinks to them available to both trading partners.

Ariba SN then tests invoice contents against the buying organization's business validation rules.

Unsuccessful Matches

If Ariba SN cannot match a purchase order, it treats the invoice as belonging to an external purchase order, which is any purchase order that was not routed through Ariba SN.

NOTE: Every inbound post attempt to Ariba SN MUST have a unique payloadID:

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE cXML SYSTEM "http://xml.cxm1.org/schemas/cXML/1.2.021/cXML.dtd">
<cXML
payloadID="1264617929036.557390619.000000234@oeCOUP9nMZ4uyg5ZabyuvQw7I1o="
(the payloadID attribute as part of the SYSTEM declaration must be unique)
timestamp="2010-01-27T10:45:29-08:00" version="1.2.021" xml:lang="en-US">
```

6.2.3. InvoiceDetailItem

Defines the invoice line item.

Attribute	Description	Notes
quantity	The quantity being invoiced for the line item.	Required Note: Credits must be provided with a quantity < 0 and a Unit Price > 0.

Line item level Tax (Required if sending Tax at the line level):

Element	Description	Notes
SubtotalAmount		Required.
Money	Monetary Amount	Required.
Tax	Opens tax details	Required only if tax is sent at the item level
Money	Monetary Amount	
Description		Required with language qualifier: <Description xml:lang="en">
TaxDetail	Specify tax type	Required
TaxAmount	Monetary Amount	Required
Money	Monetary Amount	Required
Description		Required with language qualifier: <Description xml:lang="en"> UPS custom tax category would be sent here (see Section 5.2.2)

Sample:

```
<InvoiceDetailItem>
```

```
.....
```

```
  <Tax><Money currency="USD">1.50</Money>
    <Description xml:lang="en-US"/>
    <TaxDetail category="RECYCLING TAX">
      <TaxAmount>
        <Money currency="USD">1.50</Money>
      </TaxAmount>
      <Description xml:lang="en-US">RECYCLING TAX </Description>
    </TaxDetail>
  </Tax>
```

```
.....
```

```
</InvoiceDetailItem>
```

6.2.3.1. InvoiceDetailLineShipping

Send Ship to and ship from data here if not sent at the header level.

Attribute	Description	Notes
Contact role="shipTo"	Contact role="shipTo"	Contact role="shipTo"
addressID	Ship to code as sent on PO in same contact role	<i>Optional</i>
Name	Name	Name
PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>	PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>	PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>
Contact role="shipFrom"	Contact role="shipFrom"	Contact role=" shipFrom "
Name	Name	Name
PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>	PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>	PostalAddress <Street> <City> <State> <PostalCode> <Country isoCountryCode>

Example:

```
<InvoiceDetailLineShipping>
  <InvoiceDetailShipping>
    <Contact role="shipFrom" addressID="1000487">
      <Name xml:lang="en">Main Shipping</Name>
      <PostalAddress name="default">
        <Street>15 Camino del Cerro</Street>
```



```

<City>Los Gatos</City>
<State>CA</State>
<PostalCode>95032</PostalCode>
<Country isoCountryCode="US">United States
</Country>
</PostalAddress>
<Email name="default">shipping@shipfrm.com</Email>
<Phone name="work">
  <TelephoneNumber>
    <CountryCode isoCountryCode="US">1
    </CountryCode>
    <AreaOrCityCode>408</AreaOrCityCode>
    <Number>3582000</Number>
  </TelephoneNumber>
</Phone>
<Fax name="work">
  <TelephoneNumber>
    <CountryCode isoCountryCode="US">1
    </CountryCode>
    <AreaOrCityCode>408</AreaOrCityCode>
    <Number>3582100</Number>
  </TelephoneNumber>
</Fax>

```

6.3. InvoiceSummary

The InvoiceDetailSummary element contains all the summary information related to the Invoice. The elements detail the tax, discounts, and Invoice total.

Element	Description	Notes
SubtotalAmount	Sum of the line item quantities multiplied by unit price	Required. SubTotalAmount is the sum of the line items before taxes and discounts.
Tax	Total tax amount for the line.	Required. If there are no taxable items, this element must be included but set to zero.
Money	Line item tax amount	Required
Description	Name of tax being sent (e.g.: FUEL TAX)	Required
TaxDetail	Tax type	Required
TaxAmount		Required
Description	UPS Custom Tax Name	Required with language qualifier: <Description xml:lang="en"> UPS custom tax category would be sent here (see Section 5.2.2)
SpecialHandlingAmount	Total special handling charges	Optional
ShippingAmount		Optional
GrossAmount	Total amount including Tax	Required
NetAmount	Total gross invoice amount minus any discounts.	Required. Must equal the sum of all line items.

Appendix A – Sample cXML PO

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE cXML SYSTEM "http://xml.cxml.org/schemas/cXML/1.2.020/cXML.dtd">
<cXML payloadID="1254423074799_64003944eid927s@ups.com" timestamp="2009-10-01T18-51-
14+00:00" version="1.2.020" xml:lang="en-US">
  <Header>
    <From>
      <Credential domain="NetworkID">
        <Identity> AN01003424084 -T</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="NetworkID">
        <Identity>AN01004572808-T</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="AribaNetworkUserId">
        <Identity>sysadmin@ariba.com</Identity>
      </Credential>
      <UserAgent>UPS Ariba SN Adapter</UserAgent>
    </Sender>
  </Header>
  <Request deploymentMode="test">
    <OrderRequest>
      <OrderRequestHeader orderDate="2009-11-16T00:39:01+07:00" orderID="L11334721"
orderType="regular" type="new">
        <Total>
          <Money currency="USD">297.25 </Money>
        </Total>
        <BillTo>
          <Address addressID="">
            <Name xml:lang="en-US">ACS - AP</Name>
            <PostalAddress>
              <Street>PO Box 30123</Street>
              <City>Salt Lake City</City>
              <State>UT</State>
              <PostalCode>84130</PostalCode>
              <Country isoCountryCode="USA">US</Country>
            </PostalAddress>
          </Address>
        </BillTo>
        <PaymentTerm payInNumberOfDays="10">
          <Discount>
            <DiscountPercent percent="1"/>
          </Discount>
        </PaymentTerm>
        <PaymentTerm payInNumberOfDays="30"/>
        <Contact role="buyer">
          <Name xml:lang="en-US">VICTORIA VINSON</Name>
          <Phone>
            <TelephoneNumber>
              <CountryCode isoCountryCode="US">1</CountryCode>
              <AreaOrCityCode>859</AreaOrCityCode>
              <Number>334-5744</Number>
            </TelephoneNumber>
          </Phone>
        </Contact>
        <Comments>This Purchase Order is governed b the standard UPS Terms and Conditions. These
Terms and Conditions are on file at UPS for future reference. If Seller does not have a copy of these Terms
and Conditions, please contact Buyer for Copy.</Comments>
        <DocumentReference payloadID="1254423074799_64003493wod927s@ups.com"/>
        <Extrinsic name="Freight Terms">Prepaid</Extrinsic>
      </OrderRequestHeader>
      <ItemOut quantity="41.000 " requestedDeliveryDate="2009-11-15" lineNumber="1" isAdHoc="yes">
        <ItemID>
```

```

    <SupplierPartID/>
  </ItemID>
  <ItemDetail>
    <UnitPrice>
      <Money currency="USD">7.25 </Money>
    </UnitPrice>
    <Description xml:lang="en-US">PLANT SUPPLIES</Description>
    <UnitOfMeasure>EA</UnitOfMeasure>
    <Classification domain="UNSPSC">Unspecified</Classification>
    <Extrinsic name="Ship Via">UPS</Extrinsic>
    <Extrinsic name="FOB">Destination</Extrinsic>
  </ItemDetail>
  <ShipTo>
    <Address addressID="KYHER520852">
      <Name xml:lang="en-US">UPS - SCS HEBRON OPERATIONS</Name>
      <PostalAddress>
        <DeliverTo>VINSON, VICTORIA L</DeliverTo>
        <Street>1100 WORLDWIDE BLVD</Street>
        <City>HEBRON</City>
        <State>KY</State>
        <PostalCode>41048</PostalCode>
        <Country isoCountryCode="USA">US</Country>
      </PostalAddress>
    </Address>
  </ShipTo>
</ItemOut>
</OrderRequest>
</Request>
</cXML>

```

Appendix B – Sample cXML Invoice

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE cXML SYSTEM "http://xml.cxml.org/schemas/cXML/1.2.021/InvoiceDetail.dtd">
<cXML payloadID="1268151122884-4781649166610368017@216.109.111.73" timestamp="2010-03-
09T08:12:02-08:00">
  <Header>
    <From>
      <Credential domain="NetworkID">
        <Identity>AN01004572808-T</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="NetworkID">
        <Identity> AN01003424084 -T</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="NetworkID">
        <Identity>AN01000000001</Identity>
      </Credential>
      <UserAgent>Supplier</UserAgent>
    </Sender>
  </Header>
  <Request deploymentMode="test">
    <InvoiceDetailRequest>
      <InvoiceDetailRequestHeader invoiceDate="2010-03-09T08:12:03-08:00" invoiceID="INVL11334721"
invoiceOrigin="supplier" operation="new" purpose="standard">
        <InvoiceDetailHeaderIndicator/>
        <InvoiceDetailLineIndicator/>
        <InvoicePartner>
          <Contact addressID="CAS119" role="remitTo">
            <Name xml:lang="en-US">UPS Supplier - TEST</Name>
            <PostalAddress>
              <Street>119 W 9th St</Street>
              <City>Santa Rosa</City>
              <State>CA</State>
              <PostalCode>95401</PostalCode>
              <Country isoCountryCode="US">United States</Country>
            </PostalAddress>
          </Contact>
        </InvoicePartner>
        <InvoicePartner>
          <Contact role="billTo">
            <Name xml:lang="en-US">ACS - AP</Name>
            <PostalAddress>
              <Street>PO Box 30123</Street>
              <City>Salt Lake City</City>
              <State>UT</State>
              <PostalCode>84130</PostalCode>
              <Country isoCountryCode="USA">US</Country>
            </PostalAddress>
          </Contact>
        </InvoicePartner>
        <InvoicePartner>
          <Contact role="from">
            <Name xml:lang="en-US">UPS Supplier - TEST</Name>
            <PostalAddress>
              <Street>1400 North Hurstbourn Pkw 4-B</Street>
              <City>Louisville</City>
              <State>KY</State>
              <PostalCode>40223</PostalCode>
              <Country isoCountryCode="US">United States</Country>
            </PostalAddress>
          </Contact>
        </InvoicePartner>
      </InvoiceDetailRequestHeader>
    </InvoiceDetailRequest>
  </Request>
</cXML>
```

```

<InvoicePartner>
  <Contact role="soldTo">
    <Name xml:lang="en-US">UPS Test Buyer - TEST (DEV)</Name>
    <PostalAddress>
      <Street>1400 North Hurstbourn Pkw 4-B</Street>
      <City>Louisville</City>
      <State>KY</State>
      <PostalCode>40223</PostalCode>
      <Country isoCountryCode="US">United States</Country>
    </PostalAddress>
  </Contact>
</InvoicePartner>
<InvoiceDetailShipping>
  <Contact role="shipFrom">
    <Name xml:lang="en-US">UPS Supplier - TEST</Name>
    <PostalAddress>
      <Street>1400 North Hurstbourn Pkw 4-B</Street>
      <City>Louisville</City>
      <State>KY</State>
      <PostalCode>40223</PostalCode>
      <Country isoCountryCode="US">United States</Country>
    </PostalAddress>
  </Contact>
  <Contact role="shipTo">
    <Name xml:lang="en-US">UPS Test Buyer - TEST (DEV)</Name>
    <PostalAddress>
      <Street>1400 North Hurstbourn Pkw 4-B</Street>
      <City>Louisville</City>
      <State>KY</State>
      <PostalCode>40223</PostalCode>
      <Country isoCountryCode="US">United States</Country>
    </PostalAddress>
  </Contact>
</InvoiceDetailShipping>
<PaymentTerm payInNumberOfDays="30"/>
<PaymentTerm payInNumberOfDays="10">
  <Discount>
    <DiscountPercent percent="1"/>
  </Discount>
</PaymentTerm>
<Extrinsic name="invoiceSourceDocument">PurchaseOrder</Extrinsic>
<Extrinsic name="invoiceSubmissionMethod">Online</Extrinsic>
</InvoiceDetailRequestHeader>
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
    <OrderReference orderID="L11334721">
      <DocumentReference payloadID="1254423074799_64003944eid927s@ups.com"/>
    </OrderReference>
  </InvoiceDetailOrderInfo>
  <InvoiceDetailItem invoiceLineNumber="1" quantity="41">
    <UnitOfMeasure>EA</UnitOfMeasure>
    <UnitPrice>
      <Money currency="USD">7.25</Money>
    </UnitPrice>
    <InvoiceDetailItemReference lineNumber="1">
      <Description xml:lang="en-US">PLANT SUPPLIES</Description>
    </InvoiceDetailItemReference>
    <SubtotalAmount>
      <Money currency="USD">297.25</Money>
    </SubtotalAmount>
    <GrossAmount>
      <Money currency="USD">297.25</Money>
    </GrossAmount>
    <NetAmount>
      <Money currency="USD">297.25</Money>
    </NetAmount>
  </InvoiceDetailItem>

```

```

</InvoiceDetailOrder>
<InvoiceDetailSummary>
  <SubtotalAmount>
    <Money currency="USD">297.25</Money>
  </SubtotalAmount>
  <Tax>
    <Money currency="USD">0.00</Money>
    <Description xml:lang="en-US"/>
    <TaxDetail category="FUEL TAX" percentageRate="0.00">
      <TaxableAmount>
        <Money currency="USD">297.25</Money>
      </TaxableAmount>
      <TaxAmount>
        <Money currency="USD">0.00</Money>
      </TaxAmount>
      <Description xml:lang="en-US">FUEL TAX<Description>
    </TaxDetail>
  </Tax>
  <ShippingAmount>
    <Money currency="USD">7.74</Money>
  </ShippingAmount>
  <GrossAmount>
    <Money currency="USD">304.99</Money>
  </GrossAmount>
  <NetAmount>
    <Money currency="USD">304.99</Money>
  </NetAmount>
  <DueAmount>
    <Money currency="USD">304.99</Money>
  </DueAmount>
</InvoiceDetailSummary>
</InvoiceDetailRequest>
</Request>
</cXML>

```

Appendix C – Sample Contract Invoice

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE cXML SYSTEM "http://xml.cxml.org/schemas/cXML/1.2.021/InvoiceDetail.dtd">
<cXML payloadID="1311252153770-7262633528316893573@216.109.111.84" timestamp="2011-07-
21T05:42:33-07:00" version="1.2.021">
  <Header>
    <From>
      <Credential domain="NetworkID">
        <Identity>AN01001034560-T</Identity>
      </Credential>
    </From>
    <To>
      <Credential domain="NetworkID">
        <Identity>AN01003424084-T</Identity>
      </Credential>
    </To>
    <Sender>
      <Credential domain="NetworkID">
        <Identity>AN01000000001</Identity>
      </Credential>
      <UserAgent>Supplier</UserAgent>
    </Sender>
  </Header>
  <Request deploymentMode="test">
    <InvoiceDetailRequest>
      <InvoiceDetailRequestHeader invoiceDate="2011-07-21T08:42:34-04:00"
invoiceID="TEST07212011-1" invoiceOrigin="supplier" operation="new" purpose="standard">
        <InvoiceDetailHeaderIndicator/>
        <InvoiceDetailLineIndicator/>
        <InvoicePartner>
          <Contact addressID="2301743" role="remitTo">
            <Name xml:lang="en-US">TEST SUPPLIER ACCOUNT</Name>
            <PostalAddress>
              <Street>123 Apple St</Street>
              <City>Fords</City>
              <State>NJ</State>
              <PostalCode>08863</PostalCode>
              <Country isoCountryCode="US">United States</Country>
            </PostalAddress>
          </Contact>
        </InvoicePartner>
        <InvoicePartner>
          <Contact role="from">
            <Name xml:lang="en-US">TEST SUPPLIER ACCOUNT</Name>
            <PostalAddress>
              <Street>100 Mitchell Lane</Street>
              <City>Palo Alto</City>
              <State>CA</State>
              <PostalCode>94301</PostalCode>
              <Country isoCountryCode="US">United States</Country>
            </PostalAddress>
          </Contact>
        </InvoicePartner>
        <InvoicePartner>
          <Contact role="soldTo">
            <Name xml:lang="en-US">UPS - TEST</Name>
            <PostalAddress>
              <Street>1335 Northmeadow Pkwy</Street>
              <Street>Suite 119</Street>
              <City>Roswell</City>
              <State>GA</State>
              <PostalCode>30076</PostalCode>
              <Country isoCountryCode="US">United States</Country>
            </PostalAddress>
            <Email>someone@ups.com</Email>
          </Contact>
        </InvoicePartner>
      </InvoiceDetailRequestHeader>
    </InvoiceDetailRequest>
  </Request>
</cXML>
```

```

    </Contact>
  </InvoicePartner>
  <InvoiceDetailShipping shippingDate="2011-07-18T00:00:00-04:00">
    <Contact role="shipFrom">
      <Name xml:lang="en-US">TEST SUPPLIER ACCOUNT</Name>
      <PostalAddress>
        <Street>100 Mitchell Lane</Street>
        <City>Palo Alto</City>
        <State>CA</State>
        <PostalCode>94301</PostalCode>
        <Country isoCountryCode="US">United States</Country>
      </PostalAddress>
    </Contact>
    <Contact role="shipTo">
      <Name xml:lang="en-US">UPS - TEST</Name>
      <PostalAddress>
        <Street>1335 Northmeadow Pkwy</Street>
        <Street>Suite 119</Street>
        <City>Roswell</City>
        <State>GA</State>
        <PostalCode>30076</PostalCode>
        <Country isoCountryCode="US">United States</Country>
      </PostalAddress>
    </Contact>
  </InvoiceDetailShipping>
</InvoiceDetailRequestHeader>
<InvoiceDetailOrder>
  <InvoiceDetailOrderInfo>
    <MasterAgreementIDInfo agreementID="123"/>
  </InvoiceDetailOrderInfo>
  <InvoiceDetailItem invoiceLineNumber="1" quantity="2">
    <UnitOfMeasure>EA</UnitOfMeasure>
    <UnitPrice>
      <Money currency="USD">52.75</Money>
    </UnitPrice>
    <InvoiceDetailItemReference lineNumber="1">
      <ItemID>
        <SupplierPartID>TEST</SupplierPartID>
      </ItemID>
      <Description xml:lang="en-US">TEST</Description>
    </InvoiceDetailItemReference>
    <SubtotalAmount>
      <Money currency="USD">105.50</Money>
    </SubtotalAmount>
    <GrossAmount>
      <Money currency="USD">105.50</Money>
    </GrossAmount>
    <NetAmount>
      <Money currency="USD">105.50</Money>
    </NetAmount>
  </InvoiceDetailItem>
</InvoiceDetailOrder>
<InvoiceDetailSummary>
  <SubtotalAmount>
    <Money currency="USD">105.50</Money>
  </SubtotalAmount>
  <Tax>
    <Money currency="USD">0.00</Money>
    <Description xml:lang="en-US"/>
    <TaxDetail category="FUEL SURCHARGE" percentageRate="0">
      <TaxableAmount>
        <Money currency="USD">105.50</Money>
      </TaxableAmount>
      <TaxAmount>
        <Money currency="USD">0.00</Money>
      </TaxAmount>
      <Description xml:lang="en-US">FUEL SURCHARGE</Description>
    </TaxDetail>
  </Tax>
</InvoiceDetailSummary>
</Invoice>

```



```
        </TaxDetail>
    </Tax>
    <ShippingAmount>
        <Money currency="USD">7.75</Money>
    </ShippingAmount>
    <GrossAmount>
        <Money currency="USD">113.25</Money>
    </GrossAmount>
    <NetAmount>
        <Money currency="USD">113.25</Money>
    </NetAmount>
    <DueAmount>
        <Money currency="USD">113.25</Money>
    </DueAmount>
</InvoiceDetailSummary>
</InvoiceDetailRequest>
</Request>
</cXML>
```