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CHAPTERS

APPENDICIES

Important Information

UPS Developer APIs

Your development of an application using the UPS Web Service APIs are governed by the UPS Technology Agreement or UPS Customer Technology Agreement you entered into with UPS. The following are key legal requirements from these agreements for the UPS Web Service APIs. For more information on all requirements for the UPS Web Service APIs, please refer to the UPS Technology Agreement or the Customer Technology Agreement.

Key Legal Requirements for UPS Developer APIs

Permitted Territories

This document can only be used in the countries listed in Exhibit C of the UPS Technology Agreement or UPS Customer Technology Agreement.

Use

The application must not be designed to allow distribution of information received through the UPS Web Service APIs to third parties, other than to persons having a bona fide interest in such information (e.g., the shipper, receiver or the third party payer).

Consent to Use of UPS Mark

- All screens or forms generated by your application including information received through the UPS Web Service APIs must include (1) the UPS Mark positioned in reasonable proximity to the Information and of an appropriate size to readily identify the source of the Information as UPS and (2) the following language at the bottom of every screen that displays the UPS Mark: "UPS, the UPS brand mark, and the Color Brown are trademarks of United Parcel Service of America, Inc. All Rights Reserved". Except as set forth in the preceding sentence, you have no right to use the UPS Mark without the prior written approval of UPS.

- You shall not use the UPS Mark in association with any third party trademarks in a manner that might suggest co-branding or otherwise create potential confusion as to source or sponsorship of the application, or ownership of the UPS Mark.

- The UPS Mark shall be used only as provided by UPS electronically or in hard copy form. The UPS Mark may not be altered in any manner, including proportions, colors, elements, etc., or animated, morphed or otherwise distorted in perspective or dimensional appearance.

- The UPS Mark may not be combined with any other symbols, including words, logos, icons, graphics, photos, slogans, numbers or other design elements. A minimum amount of empty space must surround the UPS Mark separating it from any other object, such as type, photography, borders, edges, etc. The required area of empty space around the UPS Mark must be 1/3x, where x equals the height of the UPS Mark.

Copyright and Proprietary Notice

In your application and any POD Letters you prepare you must include a prominent reproduction of UPS's copyright and proprietary notices in a form and format specified by UPS (See Copyright Section of this document).

Display of Information

The application must not display information concerning any other provider of shipping services or such other shipping services on any page, whether comprising one or more frames, displaying information your application receives from the UPS Web Service APIs. Your application must present all data within each field received through the UPS Web Service APIs without amendment, deletion or modification of any type.

Understanding XML Label Recovery Services

For up to 10 days after customers schedule return shipments, UPS maintains a copy of the shipping labels for the returned package. If customers need to print additional copies of return labels, the Label Recovery Shipping API can retrieve those labels.

Merchants typically provide this functionality on their own web site. Their customers access the merchant's web site, which acts as an intermediary on their behalf to retrieve the label from UPS.

The Label Recovery XML Reference

This section documents the details of the XML messages, including the requests that clients send to UPS and the responses that UPS returns. The first subsection explains the notation that this section uses. It is followed by a section that describes how UPS verifies that client applications are authorized to use the tool. The next subsections define the messages used by the tool for its services. The final subsection provides a list of error codes.

Describing XML Messages

As noted previously, all messages that UPS APIs send and receive consist of XML documents. This reference section defines the specific elements within those XML documents.
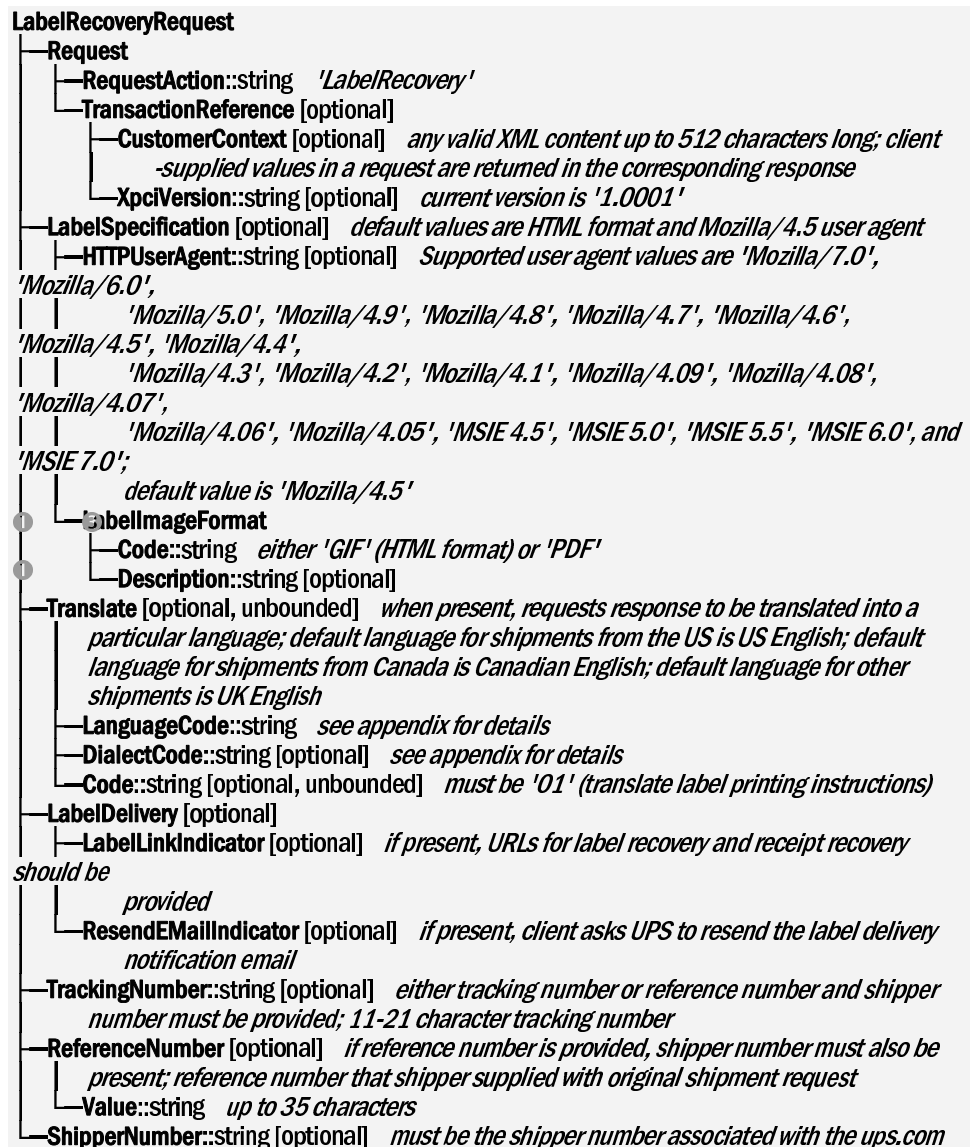
Authenticating Client Applications

UPS Shipping Services are only available for authorized UPS customers. To enforce this policy, UPS requires that every message that a client application sends include important authentication information. That information is contained in an AccessRequest XML document that must begin each message.

Label Recovery Request

The LabelRecoveryRequest message consists of two complete XML documents. The first document is an AccessRequest. It is immediately followed by a LabelRecoveryRequest.

The LabelRecoveryRequest XML example is followed by the LabelRecoveryRequest XPATH description.

LabelRecoveryRequest XML Details

```
LabelRecoveryRequest
├─Request
│   ├─RequestAction::string   'LabelRecovery'
│   └─TransactionReference [optional]
│       ├─CustomerContext [optional]   any valid XML content up to 512 characters long; client
│       │       -supplied values in a request are returned in the corresponding response
│       └─XpciVersion::string [optional]   current version is '1.0001'
├─LabelSpecification [optional]   default values are HTML format and Mozilla/4.5 user agent
│   ├─HTTPUserAgent::string [optional]   Supported user agent values are 'Mozilla/7.0',
'Mozilla/6.0',
│   │       'Mozilla/5.0', 'Mozilla/4.9', 'Mozilla/4.8', 'Mozilla/4.7', 'Mozilla/4.6',
'Mozilla/4.5', 'Mozilla/4.4',
│   │       'Mozilla/4.3', 'Mozilla/4.2', 'Mozilla/4.1', 'Mozilla/4.09', 'Mozilla/4.08',
'Mozilla/4.07',
│   │       'Mozilla/4.06', 'Mozilla/4.05', 'MSIE 4.5', 'MSIE 5.0', 'MSIE 5.5', 'MSIE 6.0', and
'MSIE 7.0';
│   │       default value is 'Mozilla/4.5'
│   └─LabelImageFormat
│       ├─Code::string   either 'GIF' (HTML format) or 'PDF'
│       └─Description::string [optional]
├─Translate [optional, unbounded]   when present, requests response to be translated into a
│       particular language; default language for shipments from the US is US English; default
│       language for shipments from Canada is Canadian English; default language for other
│       shipments is UK English
│   ├─LanguageCode::string   see appendix for details
│   ├─DialectCode::string [optional]   see appendix for details
│   └─Code::string [optional, unbounded]   must be '01' (translate label printing instructions)
├─LabelDelivery [optional]
│   ├─LabelLinkIndicator [optional]   if present, URLs for label recovery and receipt recovery
should be
│   │       provided
│   └─ResendEMailIndicator [optional]   if present, client asks UPS to resend the label delivery
│           notification email
├─TrackingNumber::string [optional]   either tracking number or reference number and shipper
│       number must be provided; 11-21 character tracking number
├─ReferenceNumber [optional]   if reference number is provided, shipper number must also be
│       present; reference number that shipper supplied with original shipment request
│   └─Value::string   up to 35 characters
└─ShipperNumber::string [optional]   must be the shipper number associated with the ups.com
```

account used to login; 6-digit UPS account number

LabelRecoveryRequest Example Message

```xml
<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
     <AccessLicenseNumber>YOURACCESSLICENSENUMBER</AccessLicenseNumber>
     <UserId>YOURUSERID</UserId>
     <Password>YOURPASSWORD</Password>
</AccessRequest>
<?xml version="1.0" ?>
<LabelRecoveryRequest>
     <Request>
          <TransactionReference>
               <XpciVersion>1.0001</XpciVersion>
          </TransactionReference>
          <RequestAction>LabelRecovery</RequestAction>
     </Request>
     <LabelSpecification>
          <HTTPUserAgent>Mozilla/4.5</HTTPUserAgent>
          <LabelImageFormat>
               <Code>GIF</Code>
          </LabelImageFormat>
     </LabelSpecification>
     <TrackingNumber>1ZE0E0970190020215</TrackingNumber>
</LabelRecoveryRequest>
```

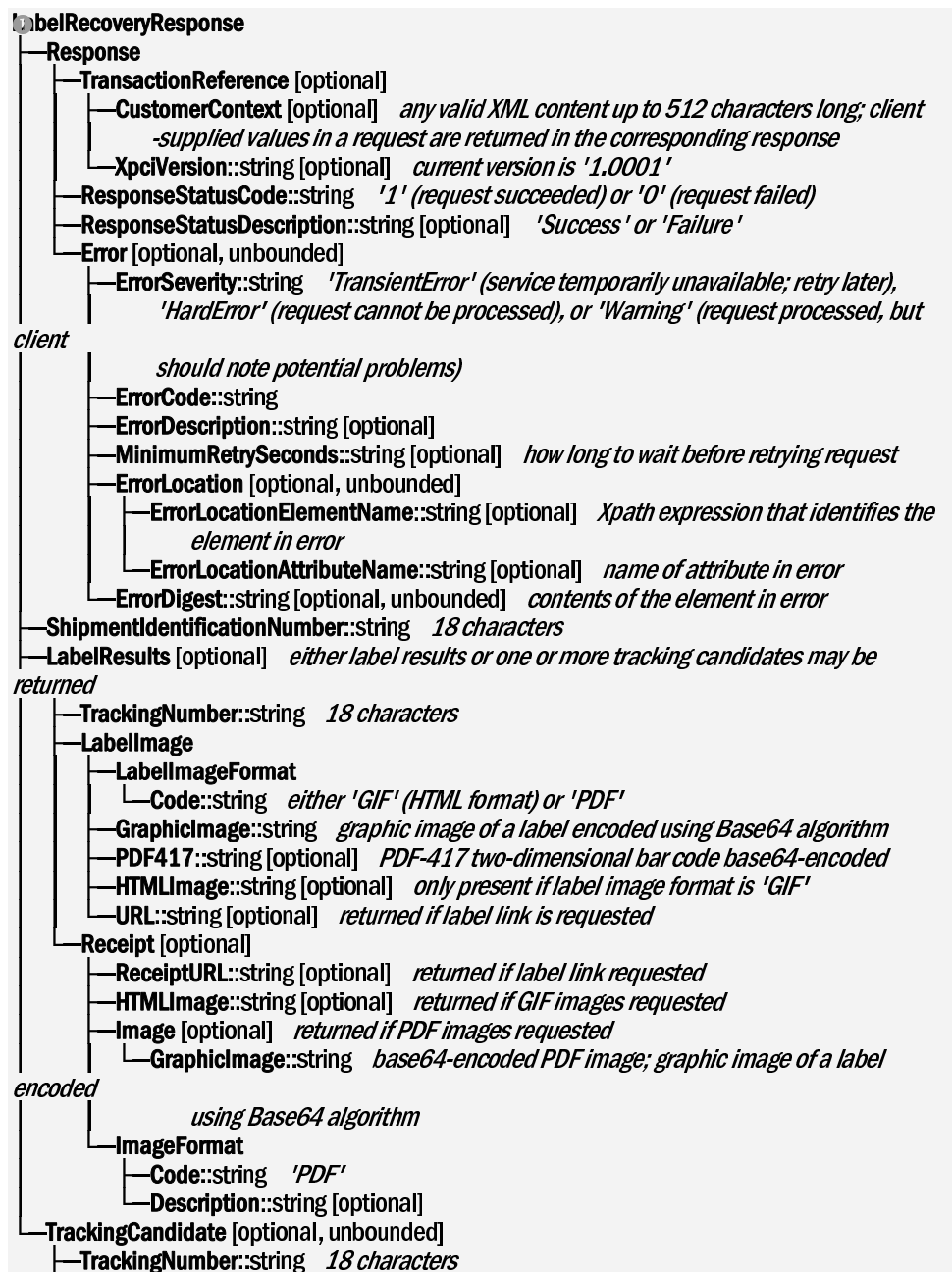| Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
LabelRecoveryRequest	/LabelRecoveryRequest	Yes	1	Container	Container	
Request	/LabelRecoveryRequest/Request	Yes	1	Container	Container	
TransactionReference	/LabelRecoveryRequest/Request/TransactionReference	No	1	Container	Container	TransactionReference identifies transactions between client and server.
RequestAction	/LabelRecoveryRequest/Request/RequestAction	Yes	1	String	1..2	Indicates the action to be taken by the XML service. Must be LabelRecovery.
LabelSpecification	/LabelRecoveryRequest/LabelSpecification	No	1	Container	Container	Container used to define the proper ties required by the user to print and/or display the label.
HTTPUserAgent	/LabelRecoveryRequest/LabelSpecification/HTTPUserAgent	No	1	String	1..64	Browser HTTPUserAgent String. This is the preferred way of identifying GIF image type to be generated. If not specified, default to Mozilla/4.5
LabelImageFormat	/LabelRecoveryRequest/LabelSpecification/LabelImageFormat	No	1	Container	Container	The file format of the label and receipt. Default to HTML format if this node not exist
Code	/LabelRecoveryRequest/LabelSpecification/LabelImageFormat/Code	No	1	String	3	File type that the label and receipt is to be generated in. Valid values are: GIF -- The generated label and receipt are in HTML format. PDF -- The generated label and receipt are in PDF format. If the Label contains Customs Invoice then the Label and receipt will always be returned in PDF format.

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
Translate	/LabelRecoveryRequest/Translate	No	1	Container	Container	Translate container allows the user to specify the language he/she would like a specific portion of response to return. The language is specified by the combination of language code and dialect code. Valid combinations are: LanguageCode + DialectCode. Languages: eng GB = Queen's English. spa 97 = Castilian Spanish. ita 97 = Italian. fra 97 = France French. fra CA = Canadian French . deu 97 = German . por 97 = Portugal Portuguese. nld 97 = Dutch. dan 97 = Danish. fin 97 = Finnish. swe 97 = Swedish. eng CA = Canadian English. Eng US = US English. Default language is Queen's English. If the Ship from country is Canada, the Language defaults to Canadian English. If the ship from country is US, the language defaults to US English. If shipping from some other country, the language defaults to Queens English.
LanguageCode	/LabelRecoveryRequest/Translate/LanguageCode	Yes	1	String	2...3	The Language code. The language codes are three letter language codes. Supported languages are: eng - English, spa - Spanish, ita - Italian, fra - French, deu - German, por - Portuguese, nld - Dutch, dan - Danish, fin - Finnish, swe - Swedish, nor - Norwegian
DialectCode	/LabelRecoveryRequest/Translate/DialectCode	Yes	1	String	2	Valid dialect codes are: CA – Canada, GB - Great Britain, 97 - Not Applicable, US - United States
Code	/LabelRecoveryRequest/Translate/Code	Yes	1	String		Used to specify what will be translated. Valid codes are: 01Code Definitions:01 = label direction instructions and receipt.
LabelDelivery	/LabelRecoveryRequest/LabelDelivery	No	1	Container	Container	Container for the Label Delivery accessorial. One Label Delivery per shipment
LabelLinkIndicator	/LabelRecoveryRequest/LabelDelivery/LabelLinkIndicator	No	1	Empty		Indicates the Label Recovery and Receipt Recovery URL links are to be returned in the XML Response. Valid for shipments with a Web Return Label Return Service.
ResendEMailIndicator	/LabelRecoveryRequest/LabelDelivery/ResendEMailIndicator	No	1	Empty		If this tag is present, resend the Label Delivery notification email.
EMailMessage	/LabelRecoveryRequest/LabelDelivery/EMailMessage		1	Container		
EMailAddress	/LabelRecoveryRequest/LabelDelivery/EMailMessage/EMailAddress	Yes	1	String		
TrackingNumber	/LabelRecoveryRequest/TrackingNumber	Cond	1	String	1..18	Package Tracking Number. If the TrackingNumber is not provided, then the ReferenceNumber/Value and ShipperNumber have to be provided.

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
ReferenceNumber	/LabelRecovery Request/ReferenceNumber	Yes	1	Container		
Value	/LabelRecoveryRequest/ReferenceNumber/Value	Cond	1	String	1..35	Required if TrackingNumber is not populated. Customer supplied reference number. Supports up to 2 customer supplied combinations of Reference code- value combinations.
ShipperNumber	/LabelRecoveryRequest/ShipperNumber	Cond	1	String	6	Required if ReferenceNumber/Value is populated. Shipper's six digit account number. Must be six alphanumeric characters. Must be associated with the Internet account used to login.

Label Recovery Response

The LabelRecoveryResponse message contains a single XML document that conforms to the following XML structure. The LabelRecoveryResponse XML example is followed by the LabelRecoveryResponse XPATH description.

LabelRecoveryResponse XML Details

```
LabelRecoveryResponse
├─Response
│ ├─TransactionReference [optional]
│ │ ├─CustomerContext [optional]   any valid XML content up to 512 characters long; client
│ │ │     -supplied values in a request are returned in the corresponding response
│ │ └─XpciVersion::string [optional]   current version is '1.0001'
│ ├─ResponseStatusCode::string   '1' (request succeeded) or '0' (request failed)
│ ├─ResponseStatusDescription::string [optional]   'Success' or 'Failure'
│ └─Error [optional, unbounded]
│   ├─ErrorSeverity::string   'TransientError' (service temporarily unavailable; retry later),
│   │       'HardError' (request cannot be processed), or 'Warning' (request processed, but
│ client
│   │       should note potential problems)
│   ├─ErrorCode::string
│   ├─ErrorDescription::string [optional]
│   ├─MinimumRetrySeconds::string [optional]   how long to wait before retrying request
│   ├─ErrorLocation [optional, unbounded]
│   │ ├─ErrorLocationElementName::string [optional]   Xpath expression that identifies the
│   │ │     element in error
│   │ └─ErrorLocationAttributeName::string [optional]   name of attribute in error
│   └─ErrorDigest::string [optional, unbounded]   contents of the element in error
├─ShipmentIdentificationNumber::string   18 characters
├─LabelResults [optional]   either label results or one or more tracking candidates may be
│ returned
│ ├─TrackingNumber::string   18 characters
│ ├─LabelImage
│ │ ├─LabelImageFormat
│ │ │ └─Code::string   either 'GIF' (HTML format) or 'PDF'
│ │ ├─GraphicImage::string   graphic image of a label encoded using Base64 algorithm
│ │ ├─PDF417::string [optional]   PDF-417 two-dimensional bar code base64-encoded
│ │ ├─HTMLImage::string [optional]   only present if label image format is 'GIF'
│ │ └─URL::string [optional]   returned if label link is requested
│ └─Receipt [optional]
│   ├─ReceiptURL::string [optional]   returned if label link requested
│   ├─HTMLImage::string [optional]   returned if GIF images requested
│   ├─Image [optional]   returned if PDF images requested
│   │ └─GraphicImage::string   base64-encoded PDF image; graphic image of a label
│ encoded
│   │       using Base64 algorithm
│   └─ImageFormat
│     ├─Code::string   'PDF'
│     └─Description::string [optional]
└─TrackingCandidate [optional, unbounded]
  ├─TrackingNumber::string   18 characters
```

```
    ─DestinationPostalCode::string [optional]    up to 16 characters
    ─DestinationCountryCode::string [optional]    two-letter abbreviation for country; see
appendix
         for details
    ─PickupDateRange [optional]
    ─BeginDate::string    format is 'YYYYMMDD'
    ─EndDate::string    format is 'YYYYMMDD'
```

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
LabelRecoveryResponse	/LabelRecoveryResponse	Yes	1	Container		
Response	/LabelRecoveryResponse/Response	Yes	1	Container		
TransactionReference	/LabelRecoveryResponse/Response/ TransactionReference	Yes	1	Container		
CustomerContext	/LabelRecoveryResponse/Response/ TransactionReference/CustomerCont ext	No	1	String	0..512	Customer provided data. May be XML. If this data is present in the request, it is echoed back to the customer.
XpciVersion	/LabelRecoveryResponse/Response/ TransactionReference/XpciVersion	No	1	String	1..50	Identifies the version of the message. Current version is 1.0001
ResponseStatusCode	/LabelRecoveryResponse/Response/ ResponseStatusCode	Yes	1	String	1	Identifies the success or failure of the interchange. 1 = Success0 = Failure
ResponseStatusDescription	/LabelRecoveryResponse/Response/ ResponseStatusDescription	No	1	String	1..15	Describes the Response Status Code.
Error	/LabelRecoveryResponse/Response/ Error	No	1	Container	Container	If an error is encountered during the interchange, the Response contains an error. If the error is present, then the ErrorSeverity and ErrorCode are required.
ErrorSeverity	/LabelRecoveryResponse/Response/ Error/ErrorSeverity	Yes	1	String	1..15	Describes the severity of the error.
ErrorCode	/LabelRecoveryResponse/Response/ Error/ErrorCode	Yes	1	String	1..15	A numeric value that describes the error. Each tool defines a range of error codes.

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
ErrorDescription	/LabelRecoveryResponse/Response/Error/ErrorDescription	No	1	String	1..50	Describes the error code.
MinimumRetrySeconds	/LabelRecoveryResponse/Response/Error/MinimumRetrySeconds	No	1	String	1..5	Number of seconds to wait until retry. This entry is populated on special conditions of the Transient Error only, as defined by the service. A number between 1 and 86400 (24 hours)
ErrorLocation	/LabelRecoveryResponse/Response/Error/ErrorLocation	No	1	Container	Container	Identifies the element in e rror.
ErrorLocationElementName	/LabelRecoveryResponse/Response/Error/ErrorLocation/ErrorLocationElementName	No	1	String	1..512	The Xpath name of the element in error. This is a valid Xpath pointing to an element in the request document.
ErrorLocationAttributeName	/LabelRecoveryResponse/Response/Error/ErrorLocation/ErrorLocationAttributeName	No	1	String	1..50	The name of the attribute in error. This is the name of the attribute contained by the Error Location element.
ErrorDigest	/LabelRecoveryResponse/Response/Error/ErrorDigest	No	1	String	Bound by the size of the Request data.	The contents of the element in error.
ShipmentIdentificationNumber	/LabelRecoveryResponse/ShipmentIdentificationNumber	Yes	1	String	18	Tracking number of the leading package in the shipment
LabelResults	/LabelRecoveryResponse/LabelResults	No	1	Container	Container	Information containing the results of the users Label Recovery Request.
TrackingNumber	/LabelRecoveryResponse/LabelResults/TrackingNumber	Yes	1	String	18	Package Tracking number.

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
LabelImage	/LabelRecoveryResponse/LabelResults/LabelImage	Yes	1	Container	Container	The elements needed to render a label on a printer or in a browser. Specifies the format in which GraphicImage is represented. If LabelImageFormat is GIF, LabelImage contains GraphicImage and HTMLImage. Otherwise, it contains only GraphicImage. If LabelImageFormat is PDF, LabelImage is only returned at the first package result. If entered in the request, the response mirrors, else the default values are returned.
LabelImageFormat	/LabelRecoveryResponse/LabelResults/LabelImage/LabelImageFormat	Yes	1	Container	Container	The format of a label image byte stream.
Code	/LabelRecoveryResponse/LabelResults/LabelImage/LabelImageFormat/Code	Yes	1	String	3	Code type that the label image is to be generated in. Valid value returned is GIF or PDF
GraphicImage	/LabelRecoveryResponse/LabelResults/LabelImage/GraphicImage	Yes	1	Base 64 Encoded	Variable Length	Base 64 encoded graphic image.
HTMLImage	/LabelRecoveryResponse/LabelResults/LabelImage/HTMLImage	Cond	1	Base 64 Encoded	Variable Length	Base 64 encoded html browser image rendering software. This is only returned for GIF image formats.
PDF417	/LabelRecoveryResponse/LabelResults/LabelImage/PDF417	Cond	1	Base 64 Encoded	Variable Length	PDF-417 is a two-dimensional barcode, which can store up to about 1,800 printable ASCII characters or 1,100 binary characters per symbol. The symbol is rectangular. The PDF417 image will be returned when the shipment is transborder and the service option is one of the following: :Standard, ExpressSaver, or ExpressPlus. The image is Base 64 encoded and only returned for GIF image format
InternationalSignatureGraphicImage	/LabelRecoveryResponse/LabelResults/LabelImage/InternationalSignatureGraphicImage	Yes	1	String		

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
URL	/LabelRecoveryResponse/LabelResults/LabelImage/URL	Cond	1	String	Variable Length	This is only returned if the label link is requested to be returned and only at the first package result
Receipt	/LabelRecoveryResponse/LabelResults/Receipt	Cond	1	Container	Container	Container for the HTML receipt and the receipt link.
HTMLImage	/LabelRecoveryResponse/LabelResults/Receipt/HTMLImage	Cond	1	String		
Image	/LabelRecoveryResponse/LabelResults/Receipt/Image	Cond	1	Container	Container	Container for the receipt in the format other than HTML.
ImageFormat	/LabelRecoveryResponse/LabelResults/Receipt/Image/ImageFormat	Yes	1	Container	Container	Container for the format of the receipt
Code	/LabelRecoveryResponse/LabelResults/Receipt/Image/ImageFormat/Code	Yes	1	String	3	The file type of the receipt. Valid value is PDF
GraphicImage	/LabelRecoveryResponse/LabelResults/Receipt/Image/GraphicImage	Yes	1	Base 64 Encoded	Variable Length	Base 64 encoded graphic image.
TrackingCandidate	/LabelRecoveryResponse/TrackingCandidate	Cond	1	Container	Container	Information containing the results of the users Label Recovery Request. Returned in the event the Shipper Number and Reference Number are supplied in the request.
TrackingNumber	/LabelRecoveryResponse/TrackingCandidate/TrackingNumber	Yes	1	String	18	Package Tracking number.
DestinationPostalCode	/LabelRecoveryResponse/TrackingCandidate/DestinationPostalCode	No	1	String	1..9	Destination Postal Code candidate.

Name	XPath	Required	Max Allowed	Type	Length	Description/Validation Rules
DestinationCountryCode	/LabelRecoveryResponse/TrackingCandidate/DestinationCountryCode	No	1	String	2	Destination Country Code candidate.
PickupDateRange	/LabelRecoveryResponse/TrackingCandidate/PickupDateRange	No	1	Container	Container	A range of time the package was picked up.
BeginDate	/LabelRecoveryResponse/TrackingCandidate/PickupDateRange/BeginDate	No	1	String	8	The beginning of the date range for the candidate. Format: YYYYMMDD
EndDate	/LabelRecoveryResponse/TrackingCandidate/PickupDateRange/EndDate	No	1	String	8	The end of the date range for the candidate. Format: YYYYMMDD

Customer Integration Environment

The Customer Integration Environment (CIE) allows customers to test their application prior to launch. This environment is intended for integration testing of customer applications with the UPS servers. No stress testing should ever be performed by customers against any UPS systems.

Once your application has been thoroughly tested, you should redirect the application to the UPS Production Environment.

Please note that while CIE maintains system availability 24 hours, 7 days each week, there are occasional system down times to allow for server maintenance.

Negotiated Rates

Negotiated Rates are available in the UPS Customer Integration Environment (CIE) and are returned when the Negotiated Rate indicator is provided in the ShipConfirm request. The Negotiated Rates returned do not reflect the contractual rate and may vary. (A flat 1% discount is returned)

Also in the Customer Integration Environment the shipper eligibility for Negotiated Rates is not fully verified. For shipper eligibility requirements refer to Negotiated Rates section within UPS Rates & Service Guide.

Shipping

Test your Shipping application using valid and invalid date elements including postal codes, weights and package types. This will ensure that your application has the ability to process success and error responses correctly.

Verifying Shipping Rates

Shipping rates quoted are estimates based on the information supplied. Other shipping charges may apply and the final shipping charge may differ depending upon UPS Account Number and how the package is tendered to UPS. Please see the applicable UPS Rate and Service Guide for details.

When comparing shipment charges between applications and tools that provide UPS rates, be sure that the requests are identical. Working through any discrepancies will require knowledge of all parameters posted along with defaults, numeric rounding, and rate table used by the applications being compared.

For more information on UPS Services, refer to the UPS Service Guide at:

http://www.ups.com/using/svc-index.html.

You can check your results against the UPS Quick Cost Calculator™ web application located at:

http://wwwapps.ups.com/servlet/QCCServlet

For integration testing, you should direct your test Shipping software to:

https://wwwcie.ups.com/ups.app/xml/ShipConfirm

Once you have completed your testing and Certification, you should direct your software to:

https://wwwcie.ups.com/ups.app/xml/ShipConfirm

System Availability

The Customer Integration Environment is available 24 hours a day, 7 days a week.

Server Availability Check

All of the UPS services work using HTTPS POST. Using the same URL as you point your application to, perform an HTTPS GET. If the server is available, it will reply with the service name, remote user, server port, server name, and servlet path. To see this in action, type the following URL in your web browser:

> https://wwwcie.ups.com/ups.app/xml/ShipConfirm

The following will be returned:

> **Service Name: ShipConfirm**
> **Remote User: null**
> **Server Port: 443**
> **Server Name: wwwcie.ups.com**
> **Servlet Path: /ShipConfirm**

UPS Label Certification

UPS requires that customers pass a Certification process prior to shipping actual (billable) packages. The Certification Process is as follows:

1. Ship five shipments in the Customer Integration Environment (CIE). These shipments must be valid shipments but may contain any combination of origins, destinations and services. At least one of these tests must produce a High Value Report by including a shipment with an InsuredValue greater than $999.

2. Void any four of the UPS-defined "Void" test cases in CIE.

3. If you are producing GIF images, please e-mail the following 39 files along with your UPS User ID and Access key to uoltects@ups.com:

   - The requests and responses of the ShipConfirm and ShipAccept XML documents from all five shipments (20 files).

   - The resulting GIF images of the label from all five shipments (5 files).

- The resulting GIF images of the High Value Report for at least one shipment (1 file).

- The HTML pages containing the scaling information for the label from all five shipments (5 files).

- The requests and responses of all the Void XML documents (8 files).

4. If you are printing labels via a Thermal Printer, the labels must be sent to UPS. Please send an email with your pickup address to labelverify@ups.com requesting a label via a provided label from the UPS Developer APIs support group. Include a High Value Report for at least one shipment with the thermal labels. Email the following 28 files along with your UPS User ID and Access Key to uoltects@ups.com:

- The requests and responses of the ShipConfirm and ShipAccept XML documents from all five shipments (20 files).

- The requests and responses of all the Void XML documents (8 files).

5. UPS will contact you via email within 2 business days to inform you of your approval status. Once granted, point your software to the following Production URL's, https://onlinetools.ups.com/ups.app/xml/ShipConfirm

https://onlinetools.ups.com/ups.app/xml/ShipAccept

.

Note: UPS reserves the right to revoke shipping privileges from any customers who fail to abide by the Certification Requirements outlined above.

Other Shipping Tools

Voiding Package Shipments

Test your Void application using the set of 1Zs listed below:

.

Number(s)	Scenario	Expected Result
1Z12345E0390817264	Single package shipment sent via UPS Ground.	Request is processed, and shipment is voided.
1Z12345E0193075279	Single package shipment sent via Next Day Air.	Request is processed, and shipment is voided.
1Z12345E0392508488	Single package shipment sent via UPS Ground for which the allotted time period for voiding the shipment has expired.	Error 190101, Time for voiding has expired.
1Z12345E1290420899	Shipment that has already been picked up by the UPS service provider.	Error 190103, A completed order cannot be voided.

Number(s)	Scenario	Expected Result
1Z12345E0390856432	Shipment that can be voided at the shipment level.	A successful shipment voided XML response will be returned for a shipment level void request.
1Z12345E0193081456	Shipment that can be voided at the shipment level.	A successful shipment voided XML response will be returned for a shipment level void request.
1Z12345E1234567890, 1Z12345E1234567890	Multi-package shipment where the request will void only one of the packages associated with the shipment.	A successful shipment partially voided XML response will be returned for a package level void request. The request will void only one of multiple packages in the shipment. The shipment will be "partially" voided.
1Z12345E2318693258, 1Z12345E0193072168	Multi-package shipment with all, save one, of the packages already voided. The request will void the remaining package.	A successful shipment voided XML response will be returned for a package level void request. The request will void the only remaining package in the shipment. The shipment will be completely voided.
1Z12345E1234567890, 1Z12345E8635481269, 1Z12345E1593518308	Multi-package shipment with a package that cannot be voided.	A successful shipment partially voided XML response will be returned for a package level void request. Tracking number 1Z12345E1593518308 will not be voided.
1Z12345E2318693258, 1Z12345E0390819985, 1Z12345E0193078536	Multi-package shipment with two packages that remain unvoided.	A successful shipment voided XML response will be returned for a package level void request. The request will void all of the remaining packages in the shipment. The shipment will be completely voided.
1Z12345E8793628675	A shipment uploaded more than 28 days previously.	A failed XML response will be returned. Error Code 190101, Time for voiding has expired.
1Z12345E1234567890, 1Z12345E0392508253	This tracking number does not belong to the shipment.	Package void will fail to void any packages when an invalid package tracking number is provided. A failed XML response will be returned. Error Code 190110, Invalid Package Void.
1Z12345E2318693258, 1Z12345E0392506486	Return shipment.	Return shipments cannot be voided at the package

Number(s)	Scenario	Expected Result
		level. A failed XML response will be returned. Error Code 190112, Return Service Shipments cannot be Voided at the Package Level.

This will ensure that your application has the ability to process success and error responses correctly.

For integration testing, you should direct your test Void Package Shipment software to:

https://wwwcie.ups.com/ups.app/xml/Void

System Availability

The Customer Integration Environment is available 24 hours a day, 7 days a week.

Server Availability Check

All of the UPS services work using HTTPS POST. Using the same URL as you point your application to, perform an HTTPS GET. If the server is available, it will reply with the service name, remote user, server port, server name, and servlet path. To see this in action, type the following URL in your web browser:

https://wwwcie.ups.com/ups.app/xml/Void

The following will be returned:

Service Name: Void
Remote User: null
Server Port: 443
Server Name: wwwcie.ups.com
Servlet Path: /Void

Welcome to the UPS API Developer's Guides

Welcome to the UPS API Developer's Guides. This guide provides the information you need to begin using UPS Developer APIs.

UPS Developer APIs offer a fast and convenient way to access UPS service information using the Internet. With these Developer APIs, UPS lets you easily incorporate UPS technology in your own applications or your own web site. Your users—running your applications or visiting your web site—can have up-to-the-minute access to UPS services.

What's New for Shipping in January 2010

Package Pickups for January 2010:

- Effective with the January Release, UPS has separated the concept of Pickups from the concept of individual Shipments.

- The new preferred method for clients will be to schedule Pickups through a new Pickup Web Service in transactions independent from Shipment creation via the Ship tool/Web Service.

- For existing UPS API clients, backward compatibility from a technical perspective has been maintained.

- For existing UPS API clients, billing for Pickups can change dramatically if Pickups continue to be scheduled through the Ship Tool/Web Service.

- Every Pickup request will be billed.

- For example, if 100 shipments are scheduled and each shipment requests a pickup, the Customer will be billed for 100 Pickup attempts… even though a single driver may come, one-time, to Pickup all 100 Shipments simultaneously.

Large Packages for January 2010:

- The Large Package (LP) indication can be applied at the package level for all API supported forward and return origins.

Saturday Delivery for Returns for January 2010:

- The restriction against Saturday Delivery for Return shipments has been removed. No Client coding changes required.

Weight Limit for Letters for January 2010:

- Any letter above the published or custom threshold will be rated and priced as a document, PAK, or a package using the actual weight. No Client coding changes required

- For any letter/envelope that exceeds the publish letter weight threshold, the packaging type will remain as letter/envelope. No Client coding changes required

UPS Service Offering Changes for January 2010:

- Domestic Express services are expanded to the following countries: Bulgaria, Estonia, Indonesia, Latvia, Lithuania, Malaysia, Morocco, New Zealand, Philippines, Slovakia, Slovenia, South Korea, Taiwan, Thailand, Turkey, and Vietnam. No Client coding changes required

EU Third Party Billing Changes for January 2010:

- Domestic shipments (EU1 to EU1) can now be billed in a different EU country or a Non-EU country. No Client coding changes required

- Transborder (EU1 to EU2) shipments can now be billed in a country outside of the EU.   No Client coding changes required

How to Use this Guide

If you are an experienced developer, you can begin developing applications quickly after reviewing "Required Steps for Integrating."

If you would like a more step-by-step guide to developing and deploying the Developer APIs, "Planning Your Applications" provides advice and describes options for developing and deploying applications and web sites that use UPS Developer APIs.

The "UPS Developer API Technologies" section explains key technologies on which the Developer APIs rely. That section also includes hints for using those technologies in various software development environments.

If you would like to learn more about what the UPS API covered in this guide can do for your applications, refer to the section on understanding the UPS API Services in this guide.

A complete technical reference to the Developer API covered in this guide is found in the API Reference section with details for the programming interfaces.

Additional material, including reference tables and lists, may be found in the appendices.

Business Processes and Rules

- When registering for the Shipping API, a customer must either have an existing account number or open a new account (instructions w/ screen shots noted in separate doc)

- In order to add an account number to your MyUPS ID for the US and CA, you must have your Invoice Level Control ID and a Plan level Control ID, UPS Account Number, Country, Amount due and date of invoice for authentication.

- You can void a shipment from the following origin countries: US, PR and CA, no restrictions on destinations

- Date is not an element in the Shipment portions of the request… Date is an element in Pickup portion and can be a future date…effective Jan2010 this option will only be available through the Pickup API

- Shipping API does not have a tag to support the Electronic Export Information (EEI) for the Shipper's Export Declaration (SED), a customer may manually enter the Employer Identification Number (EIN) on the label.

- When registering for the Shipping API, a customer must either have an existing account number or open a new account

- Must have UPS 6 digit account numbers in MyUPS profile to be able to bill to that account number.

- Only AddressLine1 is printed for ShipFromAddress on the label. Address Line 1, 2 and 3 will be printed on the label for the ShipTo Address if provided in the request

Required Steps for Integrating

The required steps for integrating the UPS APIs are listed here for UPS XML Services.

UPS XML Services

1. Review the UPS Technology Agreement available at www.ups.com. This agreement requires that you follow certain procedures and practices in using UPS Developer APIs.
2. Develop applications that make use of standard HTTP communications protocols, SSL security, and XML-based document representations.
3. Test your application and/or web site using the designated UPS staging environment.
4. If you are a UPS Ready developer, review your application with UPS.
5. Obtain UPS Label Certification for your application. (If you are a new customer or if you haven't previously certified. Please see the "UPS Label Certification" section for further details.).
6. Deploy your application for your customers.
7. Ensure the UPS Shipper Account number is added to the user's profile. This can be done at myups.com.

Planning Your Applications for XML

Planning is a key part of any successful development activity, and UPS Developer API applications are no exception. This section helps that planning by describing the important activities of any UPS Developer API application project. It provides an overview of the steps required to develop applications, and it describes key factors and choices necessary to deploy those applications.

UPS Developer API Applications

Many different types of applications can take advantage of UPS Developer APIs. Those application types include dedicated desktop applications, databases, web applications, and documents. The following figures illustrate some of the possibilities for applications using UPS Developer APIs. The only essential requirement for all of these applications is that they must have access to the Internet.
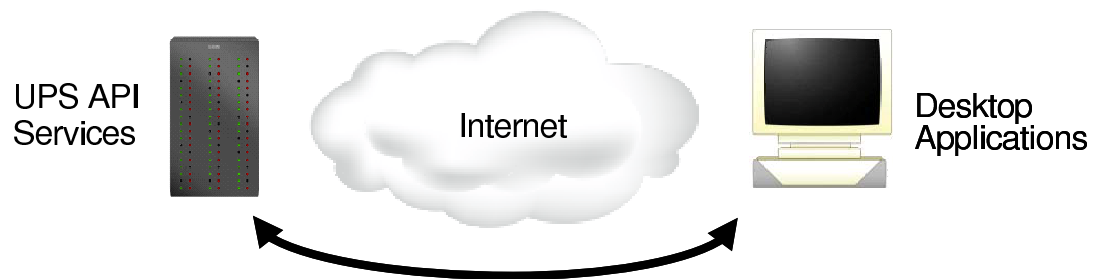

Figure 1: Dedicated applications that users run on their desktops can access UPS Developer APIs.
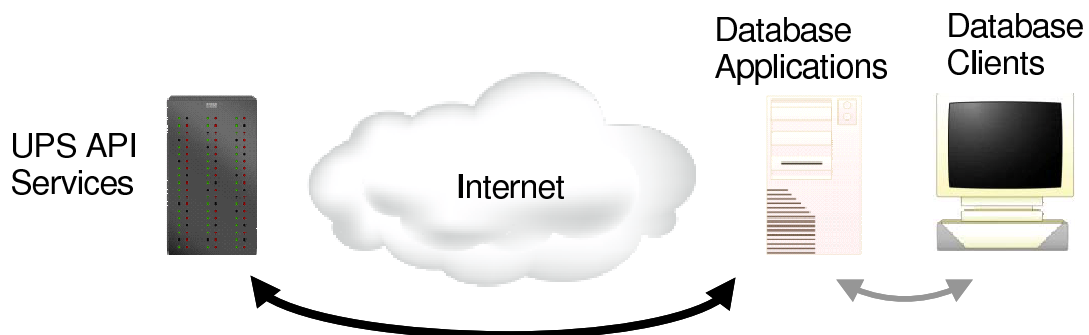

Figure 2: Database applications can access UPS Developer APIs and return information to their clients
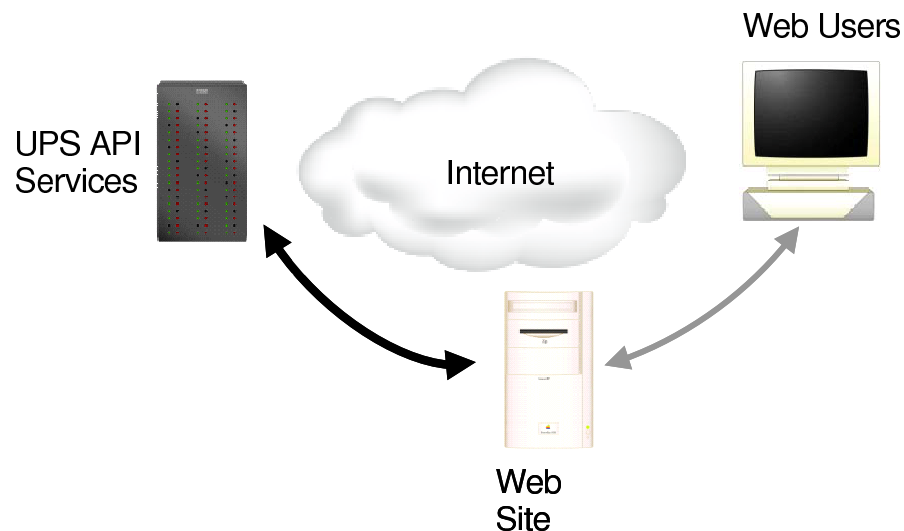
Figure 3: Web sites can access UPS Developer APIs and return information to users' web browsers.
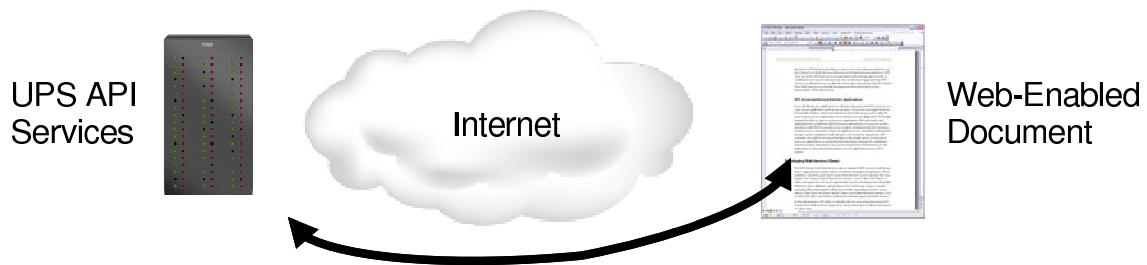

Figure 4: Non-traditional applications such as Microsoft Office or Adobe Acrobat documents can use UPS Developer APIs to automatically update their content.

The UPS Developer APIs can be implemented withal of these types of applications and many others. Virtually any software that needs instant, up-to-date access to UPS services can take advantage of UPS Developer APIs.

Licensing the UPS Developer APIs

As part of the UPS Technology Agreement, users of the APIs have certain obligations that are spelled out within the service agreement and its exhibits. Regardless of the manner in which the UPS Developer APIs are integrated into your specific e-commerce web site or enterprise application, you must adhere to appropriate usage requirements.

Branding Requirements

UPS should receive attribution and branding in all applications (including websites and software applications) that use the Developer APIs. No End User, Third Party Developer or Access User should be permitted to use the Developer

APIs without providing branded recognition to UPS. Your use of the UPS logo can in no way imply endorsement, sponsorship or certification of your e-commerce web site or enterprise application by UPS. You are not allowed to use or alter the information returned by the UPS Developer APIs in a way that misrepresents the information or the functionality of the service.

Developing Client Applications for Developer APIs

When you develop software that uses the UPS Developer APIs, you are building a client application. Because the UPS Developer APIs rely on standard Internet-based technology, you can develop those applications using a wide variety of software development platforms, including Microsoft's Visual Studio, the Java Standard Edition and Enterprise Edition distributions, and many open source projects. This section introduces important technologies available in each of these development environments. Later sections of this document include more details on using each platform. Look for the icons in the left margin, which identify information relevant to a particular development environment.

Microsoft Visual Studio

Visual
Studio

Developers using the Microsoft Visual Studio environment can rely on the Microsoft XML Core Services (MSXML) for interacting with UPS Developer APIs. Those services include functions to help applications create requests for and interpret responses, and they include functions to manage the communications between applications and UPS.

Java Standard Edition and Enterprise Edition

Java

Java developers can find all the classes they need for UPS Developer APIs in the Java Standard Edition and Enterprise Edition distributions. The URL class in the java.net package provides the functions required for communication with UPS servers, and the Java API for XML Processing (JAXP) services let programs create requests and interpret responses from UPS.

Open Source

Open
Source

There are a number of open source efforts that include technology useful for creating Developer API client applications; open source developers may find two particular projects to be especially helpful. The libcurl project is a library of functions that can manage the communications with UPS servers. For creating requests and interpreting responses, the xerces project provides essential functions in a variety of software languages.

Getting Technical Support

UPS provides technical support for developers who are using the UPS Developer APIs. To get in touch with a UPS technical support engineer, fill out the technical support request form on the UPS web site.

Within the United States

There is a phone number for External Customer Technology Support (ECTS): 1-877-289-6420 for customers who have completed testing in the Customer Integration Environment and are ready to process live shipments.

For developers in the United States, the request form may be found by selecting "Contact UPS" from the www.myups.com web site, or from www.ups.com from the steps below.

1. Navigate to the UPS website http://www.ups.com.
2. Select a language, (ex. United States – English).
3. Log into www.ups.com with your User ID and Password.
4. Click the "Support" tab
5. Select "Technology Support" from "Support" tab
6. Click on "Developer Resource Center", and then click "UPS Developer Kit" on the left-hand navigation window.
7. Click the link for "Customer Support for UPS Developer Kit" under Access and Administration.
8. Complete the e-mail form. Please explain details about errors that are being returned, and under what circumstances.

Outside of the United States

Developers outside the United States can find the technical support request in the UPS Developer APIs page within the Support section of their country's UPS web site.

1. Navigate to the UPS website http://www.ups.com.
2. Select a language,
3. Log into www.ups.com with your User ID and Password.
4. Click the "Support" tab
5. Select "Technology Support" from "Support" tab
6. Click on "Developer Resource Center", and then click "UPS Developer Kit" on the left-hand navigation window.
7. Click the link for "Customer Support for UPS Developer Kit" under Access and Administration.
8. Complete the e-mail form. Please explain details about errors that are being returned, and under what circumstances.

For more information or assistance with UPS technical support, please contact your UPS Developer APIs representative

Testing and Deploying Applications

UPS maintains a special environment to support testing and staging of applications that rely on UPS Developer APIs. This environment is called the Customer Integration Environment (CIE) and allows developers test and debug their applications by simulating transactions with UPS. The CIE site responds to requests just like the UPS production environment; however, it does not initiate actual UPS business services.

For example, if you send a shipping request to the UPS production site, a UPS driver may show up at your location expecting to pick up a package (and expecting payment for the service.) Sending the shipping request to CIE will avoid this problem.

Keeping Up-to-Date

As UPS adds new services and features, Developer APIs will evolve, offering more features and service benefits. Once you register to use UPS Developer APIs, UPS will notify you by e-mail of updates and changes to the Developer APIs. It is essential that an accurate e-mail address for your company be maintained. In addition, UPS recommends that you complete the secondary contact information to ensure that your organization receives the latest updates.

You should update your profile when changes or responsibilities for the UPS Developer APIs change within your company. You can also return to the UPS Support area of ups.com for the latest updated information about UPS Developer APIs.

UPS Developer API Technologies for XML

The foundation technologies for UPS Developer APIs are the same underlying technologies in use on the Internet today. They include the Hypertext Transfer Protocol (HTTP) with Secure Sockets Layer 3 (SSL3) security and the Extensible Markup Language (XML). Because these technologies are critical to the Internet, most software development tools provide many powerful features that make it easy for application programs to use them. This section provides a quick introduction to the technologies and to the tools that can support them.

Hypertext Transfer Protocol and Secure Sockets Layer 3

Today's Internet supports a wide variety of applications including email, instant messaging, web browsing, and voice communications. All of these applications have a well-defined set of rules that determines how they communicate. Those rules are known as *protocols*. As an Internet application themselves, the UPS Developer APIs also rely on protocols to set the rules for their communications. The primary protocol for UPS Developer APIs is the hypertext transfer protocol, or HTTP.

HTTP is a relatively simple protocol. An application that wants to use a Developer API acts as an HTTP client. It sends its request to UPS as part of an HTTP POST message. UPS servers reply to each request using an HTTP response message.
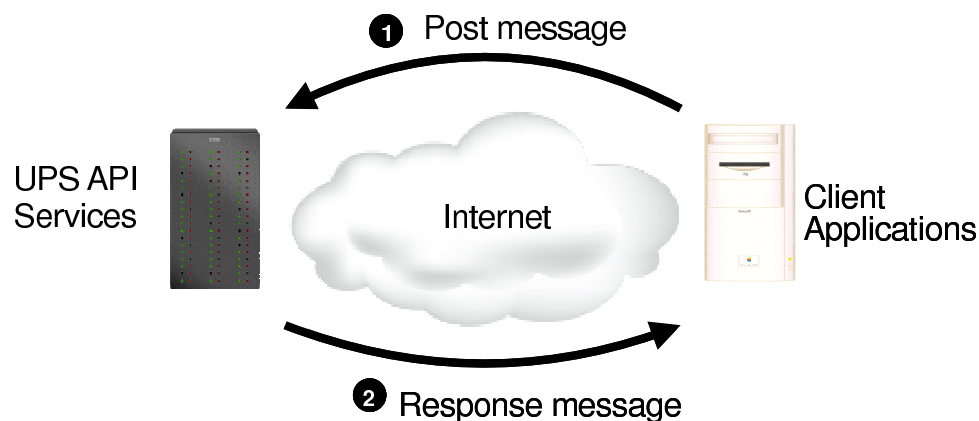
Figure 1. UPS Developer APIs accept requests from client applications in HTTP POST messages and reply to the requests with HTTP responses.

As part of the POST message, client applications indicate the type of content the message contains using an HTTP Content-Type header. For UPS Developer APIs, that content type should be application/x-www-form-urlencoded. (Presently, Version 1.1 is supported)

In many cases the UPS Developer APIs exchange information that should be kept private. To protect confidential information, the Developer APIs rely on the Secure Sockets Layer 3 (SSL3) protocol in addition to HTTP. When two systems

communicate using SSL, the protocol creates a secure channel between them, and it encrypts all information that they exchange using this channel. The SSL protocol that Developer APIs use is the same protocol used to secure millions of on-line purchases on the web.

Figure 2: SSL creates a secure channel across a network and protects confidential communications using that channel.

Working with HTTP and SSL in Application Programs

UPS Developer APIs are not the only Internet services that rely on the HTTP and SSL protocols. Both protocols, in fact, were originally developed for web browsing, and they provide the foundation for the majority of Internet applications. Because HTTP and SSL are so common, software development tools make using these protocols very simple.

Because HTTP and SSL are commonly used for web browsing, software development tools often rely on the same notation and abbreviations as standard web browsers. In particular, most tools identify a specific service (such as a UPS Developer API) using a Uniform Resource Locator (URL). URLs begin with an abbreviation of the communication protocol. For UPS Developer APIs that abbreviation will always be "https" to indicate HTTP and SSL. The protocol abbreviation is followed by a colon, two slashes, and the name of a server. Additional information about the specific service can follow the server name; it is written like the path to a file in a directory, with slashes separating individual folders. Figure 3 shows how a URL combines these individual components.
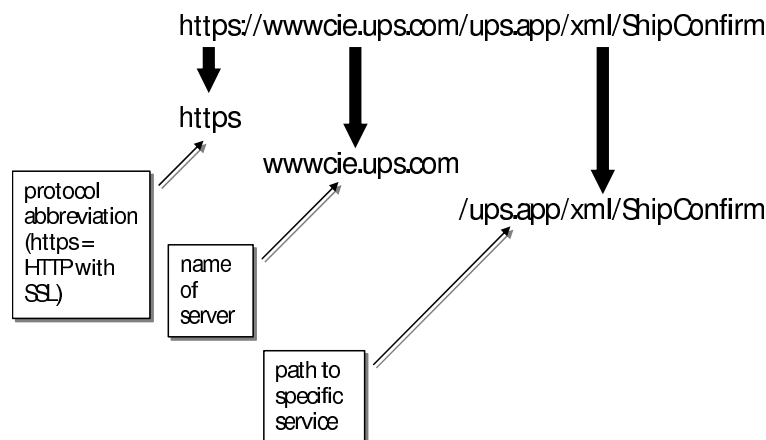
Figure 3. URLs identify communication protocols, servers, and specific services.

The subsections that follow provide brief introductions to using HTTP and SSL with various software development tools, including Microsoft Visual Studio, Java Standard and Enterprise Edition, and popular open source environments.

Microsoft Visual Studio

Visual Studio

The Microsoft Visual Studio environment includes many tools, classes, and libraries that simplify the use of HTTP and SSL protocols. A very convenient set of tools are included in the Microsoft XML Core Services (MSXML). The following code fragment shows how a Visual Basic program can send a request and retrieve the response. To keep the example as simple as possible, no exception handling is included in the figure. Production software should, of course, appropriately handle all exceptions.

```
' create the object that manages the communication
Dim oXMLHttp As XMLHTTP
Set oXMLHttp = New XMLHTTP

' prepare the HTTP POST request
oXMLHttp.open "POST", "https://www.server.com/path", False
oXMLHttp.setRequestHeader "Content-Type", _
                          "application/x-www-form-urlencoded"

' send the request
oXMLHttp.send requestString

' server's response will be available in oXMLHttp.responseXML
```
Figure 4. Visual Basic programs can use features of the MSXML tools to send and receive messages using HTTP and SSL.

Java Standard Edition and Enterprise Edition

Java

In a Java SE or EE environment, the URL class in the java.net package provides a convenient way to manage HTTP and SSL communications. Figure 5 contains a small code fragment that demonstrates the use of this class. As above, the fragment doesn't include exception handling that should be inherent in any production software.

```
import java.io.*;
import java.net.*;

URL url = new URL("https://www.server.com/path");
HttpURLConnection conn = (HttpURLConnection) url.openConnection();
conn.setRequestMethod("POST");
conn.setRequestProperty("Content-Type",
                        "application/x-www-form-urlencoded");
conn.setDoOutput(true);
PrintWriter out = new PrintWriter(conn.getOutputStream());
out.println(requestString);
out.close();
BufferedReader in = new BufferedReader(
    new InputStreamReader(conn.getInputStream()));
/* server response is available by reading the in object */
```
Figure 5. The URL class from the java.net package is a convenient way for Java programs to use HTTP and SSL

Open Source

Open Source

The libcurl project is an open source project that includes support for using HTTP and SSL protocols. The fragment in Figure 6 shows how to set up libcurl to send a request using HTTP and SSL. It relies on a callback function to accept the server's response.

```
CURL *curl;
CURLcode res;

/* prepare to send the request */
curl = curl_easy_init();
curl_easy_setopt(curl, CURLOPT_URL, https://www.server.com/path");
curl_easy_setopt(curl, CURLOPT_POSTFIELDS, requestString);
curl_easy_setopt(curl, CURLOPT_WRITEFUNCTION, fnCallback);

res = curl_easy_perform(curl);
```
Figure 6. The open source libcurl library simplifies the use of HTTP and SSL

Extensible Markup Language (XML)

The Extensible Markup Language (XML) is an international standard developed by the World Wide Web Consortium, the governing body for web standards and guidelines. XML provides a way to identify the structure of content within a document or, in the case of UPS Developer APIs, a message. Figure 7 shows how a simple XML message could describe a book.

```xml
<?xml version="1.0" encoding="UTF-8" ?>
<book>
    <title>
        HTTP Essentials: Protocols for Secure, Scaleable Web Sites
    </title>
    <author>
        <firstname>
            Stephen
        </firstname>
        <lastname>
            Thomas
        </lastname>
    </author>
    <publisher>
        John Wiley and Sons
    </publisher>
    <year>
        2001
    </year>
    <isbn>
        0-471-398233
```
Figure 7: XML identifies the structure of documents, as in this document describing a book.

As the figure illustrates, XML is a text-based format. XML messages contain regular text, though that text follows specific rules that XML defines. XML distinguishes different parts of a message with a label known as a *tag*. Tags in the example include <book>, <title>, <author>, <firstname>, etc. A tag can indicate the start of information if it begins with an angle bracket (<), and a tag can

indicate the end of information if it begins with an angle bracket and a slash (</). A beginning tag, ending tag, and the information between the two make up an *element*. In this example the publisher element tells us that the publisher for the book is "John Wiley and Sons."

The figure also shows how an XML message follows a defined structure. Elements can be contained within other elements, as <firstname> and <lastname> are included within the <author> element. This structure indicates that firstname and lastname are "children" of the author "parent."

Although XML elements can contain almost any text, there are two special characters that cannot appear within an element. Those characters are the less-than sign (<) and the ampersand (&). Elements that include these contents must replace the special characters with "<" or "&" respectively. The name of a large telecommunications company, for example, would appear as "AT&T" within an XML message.

Because XML is a text-based format, software has to take extra steps to use XML with binary data. For example, some UPS services return binary image data such as the image of a shipping label. To include this data in an XML message, UPS converts it from binary to text format using an algorithm known as *Base64 encoding*. The "The Base16, Base32, and Base64 Data Encodings" standard, also known as RFC 3548, defines that algorithm.

Although XML messages consist of a series of text characters, most software development tools represent XML messages in a tree-like data structure. That representation clarifies the structure of the message. Figure 8 shows the same XML message as Figure 7, but it uses a more visual representation to highlight the message's structure.
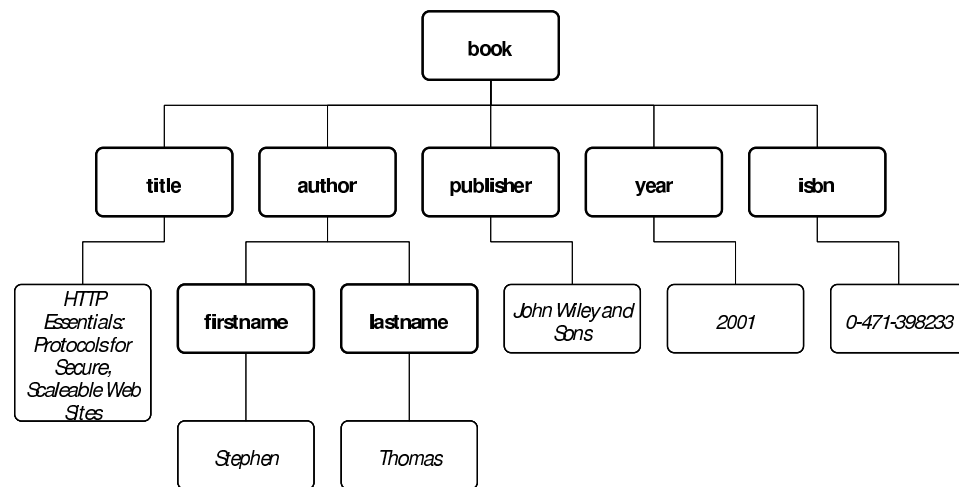
Figure 8. It is often convenient to show XML messages in a tree-like graph to highlight their structure.

The example of Figure 7 and Figure 8 is a relatively simple XML message with just a few elements. UPS Developer APIs rely on XML messages that are larger than this simple example, and it is difficult to show them in a pure graph like Figure 8 without losing legibility. Figure 9 shows an alternate way of depicting the tree-like structure of XML messages; it uses the same example as before.

```
book
├─title
│   └─"HTTP Essentials: Protocols for Secure, Scaleable Web Sites"
├─author
│   ├─firstname
│   │   └─"Stephen"
│   └─lastname
│       └─"Thomas"
├─publisher
│   └─"John Wiley and Sons"
├─year
│   └─"2001"
└─isbn
    └─"0-471-398233"
```
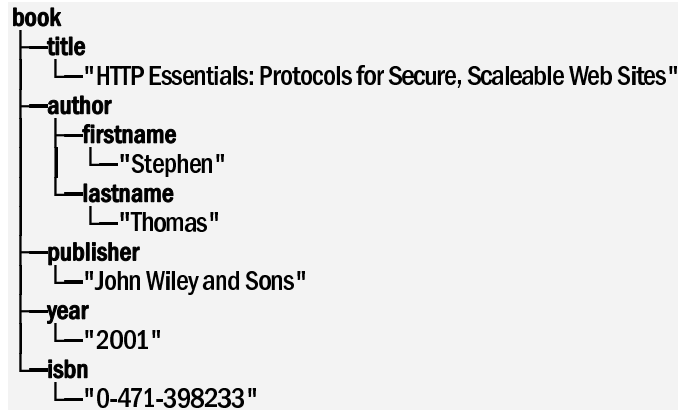
Figure 9. It is possible to show the tree-like structure of XML messages using text.

A great deal of information on XML is available on the Internet. A good starting point for further research is the World Wide Web Consortium's main page on XML at http://www.w3.org/XML/.

Working with XML in Application Programs

The popularity of Extensible Markup Language means that nearly all development environments include sophisticated support for creating and interpreting XML messages. This subsection provides a brief introduction to working with XML in Microsoft, Java, and Open Source environments. The examples it contains are only representative approaches; many other approaches are possible.

Microsoft Visual Studio

Visual Studio

The Microsoft XML Core Services (MSXML) offers one way to work with XML documents in Visual Studio applications. Figure 10 shows one approach for creating an XML message in Visual Basic, and Figure 11 demonstrates how Visual Basic programs can interpret XML responses. To remain as simple as possible, the examples do not include any exception handling. Production software should, of course, provide full exception handling.

```vb
' Define a variable and initialize it to a new XML message
Dim dom
Set dom = New DOMDocument30

' Set properties of the variable
dom.async = False
dom.validateOnParse = False
dom.resolveExternals = False
dom.preserveWhiteSpace = True

' Identify the message as XML version 1.0
Set node = dom.createProcessingInstruction("xml", "version='1.0'")
dom.appendChild node
Set node = Nothing

' Create the root (book) element and add it to the message
Dim root
Set root = dom.createElement("book")
dom.appendChild root
```

```
' Create child elements and add them to the root
Dim node
Set node = dom.createElement("title")
node.text = "HTTP Essentials: ..."
root.appendChild node
Set node = Nothing

Set node = dom.createElement("author")
Dim child
Set child = dom.createElement("firstname")
child.text = "Stephen"
node.appendChild child
Set child = Nothing
Set child = dom.createElement("lastname")
child.text = "Thomas"
node.appendChild child
root.appendChild node

' And so on
```
Figure 10. Visual Basic can create XML messages through the DOMDocument object.

```
' Define a variable to hold the parsed message
Dim dom As New DOMDocument30
dom.async = False
dom.validateOnParse = False
dom.resolveExternals = False
dom.preserveWhiteSpace = True

' Try to parse the message
If dom.loadXML(messageText) = False Then
    ' The text did not contain valid XML
End If

' Get the title information from the message
Dim node As IXMLDOMNode
Set node = dom.selectSingleNode("/title")
If node Is Nothing Then
    ' The message did not contain title information
Else
    ' Do something with node.text
End If
```
Figure 11. Visual Basic can read the contents of XML messages after parsing them with the DOMDocument object.

Visual Basic also has built-in classes to interpret Base64-encoded values. The Convert.FromBase64String() function converts from a Base64-encoded string to an array of 8-bit unsigned integers

Java Standard Edition and Enterprise Edition

Java

The Java API for XML Processing (JAXP) is the preferred approach for working with XML messages in Java. Figure 12 shows how a BookClass object can be converted into an XML message, a process that JAXP calls *marshalling*. Similarly, Figure 13 shows the reverse process, where an XML message is converted into a BookClass object. This reverse process is *unmarshalling*. As above, exception handling code is omitted from these examples to make them as clear as possible.

```
import javax.xml.bind.JAXBContext;
import javax.xml.bind.Marshaller;
import java.io.StringWriter;
```

```
/* create the book object */
BookClass book = new BookClass("HTTP Essentials...",
    new AuthorClass("Stephen", "Thomas"),
    "John Wiley and Sons",
    "2001",
    "0-471-398233");

/* convert it to an XML string */
StringWriter writer = new StringWriter();
JAXBContext context = JAXBContext.newInstance(book.class);
Marshaller m = context.createMarshaller();
m.marshal(book, writer);
```
Figure 12. JAXP provides a convenient way for Java applications to create XML messages from Java objects.

```
import javax.xml.bind.JAXBContext;
import javax.xml.bind.Marshaller;
import java.io.StringReader;

/* xmlMessage contains the XML message */
StringReader reader = new StringReader(xmlMessage);
JAXBContext context = JAXBContext.newInstance(Book.class);
Unmarshaller u = context.createUnmarshaller();
BookClass book = (BookClass) u.unmarshal(reader);

/* access properties of the book */
System.out.println(book.getAuthor().getFirstname())
```
Figure 13. JAXP also gives Java applications a convenient way to retrieve elements from an XML message

Open Source

Open Source

As of this writing, the most popular open source tool for working with XML is the xerces project. That project includes C++, Java, and Perl implementations of an XML library. The xerces distribution includes extensive sample applications. The code fragment in Figure 14 demonstrates creating an XML message in C++ with the xerces library. Figure 15 shows sample code for accessing an element within an XML message. In both cases exception handling is not shown in order to keep the examples as simple as possible. Production software should always contain full exception handling.

```
DOMImplementation* impl =
    DOMImplementationRegistry::getDOMImplementation(X("Core"));

DOMDocument* doc = impl->createDocument(0, X("book"), 0);
DOMElement* rootElem = doc->getDocumentElement();

DOMElement* titleElem = doc->createElement(X("title"));
rootElem->appendChild(titleElem);

DOMText* titleVal = doc->createTextNode(X("HTTP Essentials..."));
titleElem->appendChild(titleVal);
```
Figure 14. The Xerces C++ library includes classes that can create XML messages.

```
XMLCh* TAG_book;
XMLCh* TAG_title;
xercesc::XercesDOMParser *parser;

XMLPlatformUtils::Initialize();
TAG_book = XMLString::transcode("book");
TAG_title = XMLString::transcode("title");
```

```
parser = new XercesDOMParser;
parser->parse(inputText);
DOMDocument* xmlDoc = parser->getDocument();
DOMElement* elementRoot = xmlDoc->getDocumentElement();
DOMNodeList* children = elementRoot->getChildNodes();
const XMLSize_t nodeCount = children->getLength();
for (XMLSize_t cnt = 0; cnt < nodeCount; ++cnt ) {
    DOMNode* currentNode = children->item(cnt);
    if( currentNode->getNodeType() &&
        currentNode->getNodeType() == DOMNode::ELEMENT_NODE ) {
        DOMElement* currentElement =
            dynamic_cast< xercesc::DOMElement* >( currentNode );
        if( XMLString::equals(currentElement->getTagName(),
                              TAG_title)) {
            /* do something with the title */
        }
    }
}
```

Figure 15. The Xerces C++ library also supports parsing XML messages to find individual elements.

Understanding XML Shipping Services

This section provides an overview of Shipping Services. It describes the services available through the Shipping API, and it explains—at an overview level—how the APIs operate.

What Shipping Services Can Do

The Shipping API makes UPS shipping services available to client applications that communicate with UPS using the Internet. With this API, applications can prepare or schedule small package shipments, manage returns, or cancel previously scheduled shipments.

Shipments

Shipping Services give your applications many ways to manage the shipment of small packages to their destination. UPS offers a range of delivery time frames from same day to standard ground transportation. Shipments may be within the United States or international, and they may range from letter documents to large packages. (Note: for freight services, please refer to the APIs designed for freight services.)

UPS also supports many valued added services for shipments, including collect on delivery (COD), declared value, delivery confirmation, and automatic notification of delivery status.

For full details on all UPS shipping services, please consult the latest *UPS Rate and Service Guide* available at http://www.ups.com. Note that these shipments are sometimes called *forward shipments* or *outbound shipments* to distinguish them from returns.

Cancellations (Voids)

If you need to cancel a previously processed shipment, the UPS Shipping Services let client applications automate that task. This process is known as *voiding* a shipment.

Returns

UPS Shipping Services also support the UPS returns services. Either as part of a forward shipment or in a separate process, clients can request a return label for their customers. (Note: UPS can provide a label for a return shipment even if it did not provide a label for the forward shipment.) With return services, you can include a label in an outbound shipment, ask UPS to email or mail the return label to your customer, or request a UPS driver to pick up the package at the your customer's location. As with forward shipments, details on return shipment services can be found in the latest *UPS Rate and Service Guide* at http://www.ups.com.

How Shipping Services Work

Because forward and return shipments share many of the same characteristics (they have an origin, destination, service type, etc.), UPS APIs use the same procedure and message types for both services. Cancelling or voiding a shipment requires its own procedure and message types.

Two Step (Phase) Shipping Process

The process to use the Shipping API consists of two phases, the **ship confirm** phase followed by the **ship accept** phase. An XML request/response pair is exchanged between the client and server in each phase. The XML messages exchanged in the confirm phase are the ShipmentConfirmRequest input message and the ShipmentConfirmResponse output message.

The XML messages exchanged in the accept phase are the ShipmentAcceptRequest input message and the ShipmentAcceptResponse output message. Shipment information is specified in the ShipmentConfirmRequest message. After the ShipmentConfirmRequest message is created, it must be sent to the Shipping API ShipConfirm URL address, using a HTTP POST. After the ShipmentConfirmRequest message is received by the server, it is preprocessed and validated. If the ShipmentConfirmRequest message passes all validation tests, a ShipmentConfirmResponse message is returned containing basic rate information, the shipment Id, and the shipment digest. If the ShipmentConfirmRequest message fails validation, a ShipmentConfirmResponse message is returned containing error information. The majority of the validation is performed in this phase.

The actual shipment has not been created at this point.

In order to create a shipment and receive the shipping label(s), a ShipAcceptRequest message must be created and sent to the Shipping API ShipAccept connection address URL, using a HTTP POST. The ShipAcceptRequest message must contain the shipment digest returned in the ShipmentConfirmResponse message. After the ShipmentAcceptRequest message is received in the server, additional processing validation is performed. If the ShipmentAcceptRequest message passes all validation tests, a ShipmentAcceptResponse message is returned containing detailed rate information, the Shipment Id, package tracking numbers and the shipping label(s). If the ShipmentAcceptRequest message fails validation, a ShipmentAcceptResponse message is returned containing error information.

Forward and Return Shipments

For forward and return services client applications use a four-step procedure to process a shipment. As

①ShipConfirmRequest

Shipping
API

**②
ShipConfirmResponse**

**③
ShipAcceptRequest**

Client
Application

④ ShipAcceptResponse
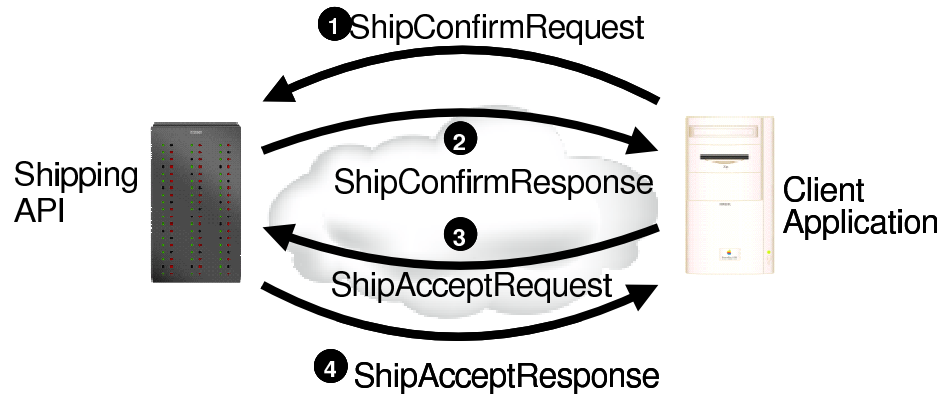
Figure 1 shows, the procedure begins when a client application sends a ShipmentConfirmRequest to UPS. This request provides details of the shipment and the desired UPS services. UPS replies to this request with a ShipmentConfirmResponse. ShipmentConfirmResponses include estimated rates for the shipment. If the rates and services are acceptable to the client, it sends a ShipmentAcceptRequest to UPS. This message authorizes UPS to charge for the shipment and process the shipment data. UPS acknowledges the request by returning a ShipmentAcceptResponse. For forward shipments and for preprinted return labels, this response includes a label for the shipment.

①ShipConfirmRequest

Shipping
API

**②
ShipConfirmResponse**

**③
ShipAcceptRequest**

Client
Application

④ShipAcceptResponse
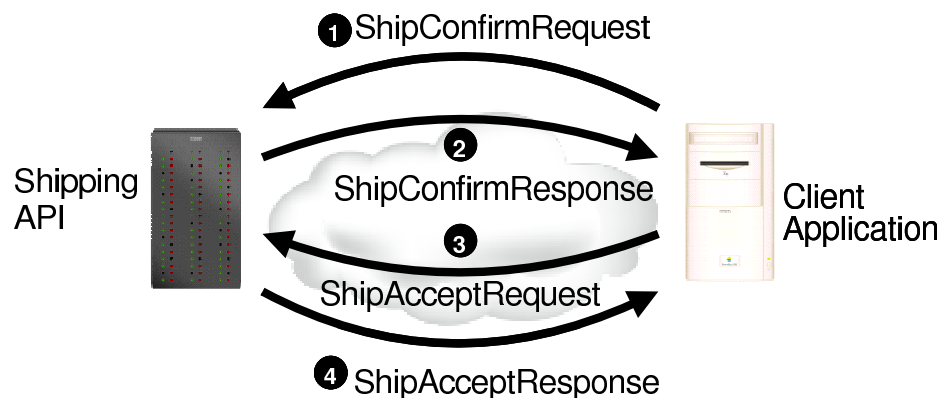
Figure 1. Forward and return shipments require four separate steps to complete the shipment processing.

Clients that want to include preprinted labels as part of forward shipments must perform this four-step procedure twice. One time processes the forward shipment, and the second time retrieves the return label.

Cancellations (Voids)

To cancel, or *void*, a previously scheduled shipment, client applications send a VoidShipmentRequest to UPS. As Figure 2 illustrates, UPS replies to this request with a VoidShipmentResponse.
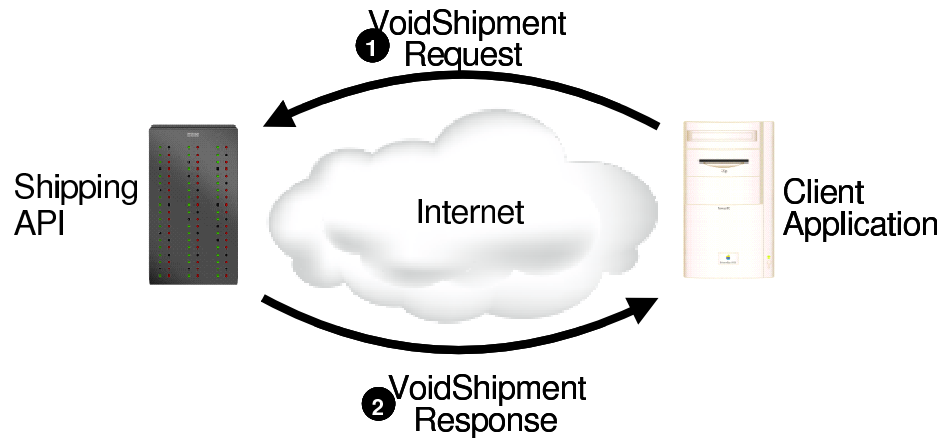
Figure 2. VoidShipmentRequest messages let client applications cancel a previously scheduled shipment.

Applications may void forward shipments up to 28 days after initially processing them. Return shipments must be voided within 24 hours.

The Shipping XML Reference

This section documents the details of the XML messages, including the requests that clients send to UPS and the responses that UPS returns. The first subsection explains the notation that this section uses. It is followed by a section that describes how UPS verifies that client applications are authorized to use the tool. The next subsections define the messages used by the tool for its services.

Describing XML Messages

As noted previously, all messages that UPS APIs send and receive consist of XML documents. This reference section defines the specific elements within those XML documents.

ShipmentConfirmRequest Example Message:

```xml
<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
    <AccessLicenseNumber>YOURACCESSLICENSENUMBER</AccessLicenseNumber>
    <UserId>YOURUSERID</UserId>
    <Password>YOURPASSWORD</Password>
</AccessRequest>
<?xml version="1.0" ?>
<ShipmentConfirmRequest>
    <Request>
        <TransactionReference>
            <CustomerContext>guidlikesubstance</CustomerContext>
            <XpciVersion>1.0001</XpciVersion>
        </TransactionReference>
        <RequestAction>ShipConfirm</RequestAction>
        <RequestOption>nonvalidate</RequestOption>
    </Request>
    <Shipment>
        <Shipper>
            <Name>Joe's Garage</Name>
            <AttentionName>John Smith</AttentionName>
            <PhoneNumber>9725551212</PhoneNumber>
            <ShipperNumber>123X67</ShipperNumber>
            <Address>
                <AddressLine1>1000 Preston Rd</AddressLine1>
                <City>Plano</City>
                <StateProvinceCode>TX</StateProvinceCode>
                <CountryCode>US</CountryCode>
                <PostalCode>75093</PostalCode>
            </Address>
        </Shipper>
        <ShipTo>
            <CompanyName>Pep Boys</CompanyName>
            <AttentionName>Manny</AttentionName>
            <PhoneNumber>
```

```xml
            41051255512121234
        </PhoneNumber>
        <Address>
            <AddressLine1>201 York Rd</AddressLine1>
            <City>Timonium</City>
            <StateProvinceCode>MD</StateProvinceCode>
            <CountryCode>US</CountryCode>
            <PostalCode>21093</PostalCode>
            <ResidentialAddress />
        </Address>
    </ShipTo>
    <Service>
        <Code>14</Code>
        <Description>Next Day Air Early AM</Description>
    </Service>
    <PaymentInformation>
        <Prepaid>
            <BillShipper>
                <CreditCard>
                    <Type>06</Type>
                    <Number>4111111111111111</Number>
                    <ExpirationDate>121999</ExpirationDate>
                </CreditCard>
            </BillShipper>
        </Prepaid>
    </PaymentInformation>
    <ShipmentServiceOptions>
        <OnCallAir>
            <PickupDetails>
                <PickupDate>09132000</PickupDate>
                <EarliestTimeReady>0945</EarliestTimeReady>
                <LatestTimeReady>1445</LatestTimeReady>
                <ContactInfo>
                    <Name>Jane Smith</Name>
                    <PhoneNumber>9725551234</PhoneNumber>
                </ContactInfo>
            </PickupDetails>
        </OnCallAir>
    </ShipmentServiceOptions>
    <Package>
        <PackagingType>
            <Code>02</Code>
        </PackagingType>
        <Dimensions>
            <UnitOfMeasurement>
                <Code>IN</Code>
            </UnitOfMeasurement>
            <Length>22</Length>
            <Width>20</Width>
            <Height>18</Height>
        </Dimensions>
        <PackageWeight>
            <Weight>14.1</Weight>
        </PackageWeight>
        <ReferenceNumber>
            <Code>02</Code>
            <Value>1234567</Value>
```

```
                </ReferenceNumber>
                <PackageServiceOptions>
                    <InsuredValue>
                        <CurrencyCode>USD</CurrencyCode>
                        <MonetaryValue>149.99</MonetaryValue>
                    </InsuredValue>
                    <VerbalConfirmation>
                        <Name>Sidney Smith</Name>
                        <PhoneNumber>4105551234</PhoneNumber>
                    </VerbalConfirmation>
                </PackageServiceOptions>
            </Package>
            <Package>
                <PackagingType>
                    <Code>02</Code>
                </PackagingType>
                <PackageWeight>
                    <Weight>22.0</Weight>
                </PackageWeight>
                <ReferenceNumber>
                    <Code>PM</Code>
                    <Value>1234568</Value>
                </ReferenceNumber>
                <ReferenceNumber>
                    <Code>ST</Code>
                    <Value>Distributor</Value>
                </ReferenceNumber>
                <PackageServiceOptions>
                    <InsuredValue>
                        <MonetaryValue>299.99</MonetaryValue>
                    </InsuredValue>
                </PackageServiceOptions>
            </Package>
        </Shipment>
        <LabelSpecification>
            <LabelPrintMethod>
                <Code>GIF</Code>
            </LabelPrintMethod>
            <HTTPUserAgent>Mozilla/4.5</HTTPUserAgent>
            <LabelImageFormat>
                <Code>GIF</Code>
            </LabelImageFormat>
        </LabelSpecification>
</ShipmentConfirmRequest>
```

ShipmentConfirmResponse Example Message:

```
<?xml version="1.0" ?>ShipmentAcceptRequest
<ShipmentConfirmResponse>
    <Response>
        <TransactionReference>
            <CustomerContext>guidlikesubstance</CustomerContext>
            <XpciVersion>1.0001</XpciVersion>
        </TransactionReference>
        <ResponseStatus>0</ResponseStatus>
        <ResponseStatusDescription>success</ResponseStatusDescription>
```

```
        </Response>
        <ShipmentCharges>
            <TransportationCharges>
                <MonetaryValue>19.60</MonetaryValue>
            </TransportationCharges>
            <ServiceOptionsCharges>
                <MonetaryValue>3.40</MonetaryValue>
            </ServiceOptionsCharges>
            <TotalCharges>
                <MonetaryValue>23.00</MonetaryValue>
            </TotalCharges>
        </ShipmentCharges>
        <BillingWeight>
            <Weight>36.0</Weight>
        </BillingWeight>
        <ShipmentIdentificationNumber>1Z123X670299567041</ShipmentIdentificationNumber>
        <ShipmentDigest>FSDJHFSDJSHDJK47873487489KFSDJKQSDFSJDFK94238093489034K
SDFJSDFKLJFDSKFKDJFSDKJFLSDKA923809234893402KLSDFJKLSDFJDFKSJFSDKLJFDSKLJFSD
KLJ49230843920814309KLSDFJFKLSDJFDKLSJSDFKLJDKFLJDSKLJ092348349223098IJKLFJK
LFSDJFKLASDJFKAJFSDIUR897348574KJWEHRIQEWU8948348(truncated)</ShipmentDigest>
    </ShipmentConfirmResponse>
```

ShipmentAcceptRequest Example Message:

```
<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
    <AccessLicenseNumber>YOURACCESSLICENSENUMBER</AccessLicenseNumber>
    <UserId>YOURUSERID</UserId>
    <Password>YOURPASSWORD</Password>
</AccessRequest>
<?xml version="1.0" ?>
<ShipmentAcceptRequest>
    <Request>
        <TransactionReference>
            <CustomerContext>guidlikesubstance</CustomerContext>
            <XpciVersion>1.0001</XpciVersion>
        </TransactionReference>
        <RequestAction>ShipAccept</RequestAction>
    </Request>
    <ShipmentDigest>FSDJHFSDJSHDJK47873487489KFSDJKQSDFSJDFK94238093489034K
SDFJSDFKLJFDSKFKDJFSDKJFLSDKA923809234893402KLSDFJKLSDFJDFKSJFSDKLJFDSKLJFSD
KLJ49230843920814309KLSDFJFKLSDJFDKLSJSDFKLJDKFLJDSKLJ092348349223098IJKLFJK
LFSDJFKLASDJFKAJFSDIUR897348574KJWEHRIQEWU8948348(truncated)</ShipmentDigest>
</ShipmentAcceptRequest>
```

(Forward) ShipmentAcceptResponse Example Message:

```
<?xml version="1.0" ?>
<ShipmentAcceptResponse>
    <Response>
        <TransactionReference>
            <CustomerContext>guidlikesubstance</CustomerContext>
            <XpciVersion>1.0001</XpciVersion>
        </TransactionReference>
        <ResponseStatus>0</ResponseStatus>
```

```xml
        <ResponseStatusDescription>success</ResponseStatusDescription>
    </Response>
    <ShipmentResults>
        <ShipmentCharges>
            <TransportationCharges>
                <MonetaryValue>19.60</MonetaryValue>
            </TransportationCharges>
            <ServiceOptionsCharges>
                <MonetaryValue>3.40</MonetaryValue>
            </ServiceOptionsCharges>
            <TotalCharges>
                <MonetaryValue>23.00</MonetaryValue>
            </TotalCharges>
        </ShipmentCharges>
        <BillingWeight>
            <Weight>36.0</Weight>
        </BillingWeight>
        <ShipmentIdentificationNumber>
            1Z123X670299567041
        </ShipmentIdentificationNumber>
        <PackageResults>
            <TrackingNumber>1Z123X670299567041</TrackingNumber>
            <ServiceOptionsCharges>
                <MonetaryValue>1.20</MonetaryValue>
            </ServiceOptionsCharges>
            <LabelImage>
                <LabelImageFormat>
                    <Code>GIF</Code>
                </LabelImageFormat>
                <GraphicImage>FSDJHSDJHJ3487EHNE9U8DY9VHRFV89SDFHFSDJHFSDIDF
HSJKDFSJKDFSJIU9GFIUGJIFDUJG9UKGLDJFDKJDGKJDFKGDJLDFKSJGKDFJDKGFDG9E0ERIJGE39
IWURE9U9EROUW9ROUR9WEGU9URE9WGUW90U90GRUG90GERUG9REUGWERGJIOJGIODFGUI
OFDUGIOFUIGRUE090U9TERUT90RUT9EU90ERUT9ERU9EUER9TUT9ROUTE90RU9TERU90RTEU9
SDKHGJHGDFU</GraphicImage>
                <HTMLImage>SKJJKLHGIGKHGKJHGFJGFJHDFJGHDDJFHFDJHFJHFJKDHJKFDH
JFJDFHDFJHJDFHGJDHGDFSHJKFSDHSDFJHFJSDHJKDFHFJKSHDSKJHGFDJSJDFSKSKJJKLHGIGKH
GKJHGFJGFJHDFJGHDDJFHFDJHFJHFJKDHJKFDHJFJDFHDFJHJDFHGJDHGDFSHJKFSDHSDFJHFJSD
HJKDFHFJKSHDSKJHGFDJSJDFSKHGJKDS</HTMLImage>
            </LabelImage>
        </PackageResults>
        <PackageResults>
            <TrackingNumber>1Z123X670292134678</TrackingNumber>
            <AccessorialCharges>
                <MonetaryValue>2.20</MonetaryValue>
            </AccessorialCharges>
            <LabelImage>
                <LabelImageFormat>
                    <Code>GIF</Code>
                </LabelImageFormat>
                <GraphicImage>895UIGJ89XCASDVIGFUISDFNKLFSDANUI43UIT34IONSDFK
HG89GUKGJNGKDJFKDJDGKJDKFSDU089REUTDRKJOEIOUTERIJREIKGRJIGOWEJIEJIEGJGRIOEJGR
IGJIODJGFIODFJSIOUDFIOGDFUGDF890ERUTRIOGTJRDIOOGJGIOSDFJGIOJGIOJIOGFUGJIOGU90E
8T9TRFIRWEU90WERU90WU90WTU90WUT09WEUTWRJGKSDFJGIOSDFJGOISDFJGIOSJSD</GraphicImage>
                <HTMLImage>JDFSKAATRIOERHIOEGHNVIXCUIFGJMFDGMAN8Y89H54JMN1
MK345H8SDHFDHGJKGHFDJKGHDGKSFJAH893YTUITNGDFJSGH8935Y5RTHDDFJKHT89HTJETHW
```

ER8934Y89534KGNDF0JKKH893RYETFIHTRUIOEY89TY34IHDFUIHGRU9T38934UITHDIUJTHEQW
89RY8WIERHT9RI</HTMLImage>
            </LabelImage>
        </PackageResults>
    </ShipmentResults>
</ShipmentAcceptResponse>

VoidShipmentRequest Example Message:

<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
    <AccessLicenseNumber>YOURACCESSLICENSENUMBER</AccessLicenseNumber>
    <UserId>YOURUSERID</UserId>
    <Password>YOURPASSWORD</Password>
</AccessRequest>
<?xml version="1.0" encoding="UTF-8" ?>
<VoidShipmentRequest>
    <Request>
        <TransactionReference>
            <CustomerContext>Customer Transaction ID</CustomerContext>
            <XpciVersion>1.0001</XpciVersion>
        </TransactionReference>
        <RequestAction>Void</RequestAction>
        <RequestOption />
    </Request>
    <ExpandedVoidShipment>
        <ShipmentIdentificationNumber>
            1Z12345E2318693258
        </ShipmentIdentificationNumber>
        <TrackingNumber>1Z12345E0390819985</TrackingNumber>
        <TrackingNumber>1Z12345E0193078536</TrackingNumber>
    </ExpandedVoidShipment>
</VoidShipmentRequest>

VoidShipmentResponse Example Message:

<?xml version="1.0" ?>
<VoidShipmentResponse>
    <Response>
        <TransactionReference>
            <CustomerContext>Customer Transaction ID</CustomerContext>
            <XpciVersion>1.0001</XpciVersion>
        </TransactionReference>
        <ResponseStatusCode>1</ResponseStatusCode>
        <ResponseStatusDescription>Success</ResponseStatusDescription>
    </Response>
    <Status>
        <StatusType>
            <Code>1</Code>
            <Description>Success</Description>
        </StatusType>
        <StatusCode>
            <Code>1</Code>
            <Description>Success</Description>
        </StatusCode>
    </Status>
</VoidShipmentResponse>

Authenticating Client Applications

UPS Shipping Services are only available for authorized UPS customers. To enforce this policy, UPS requires that every message that a client application sends include important authentication information. That information is contained in an AccessRequest XML document that must begin each message.

AccessRequest

```
AccessRequest
  —AccessLicenseNumber::string
  —UserId::string
  —Password::string
```

Each AccessRequest{ XE "AccessRequest" } contains three child elements: an AccessLicenseNumber, a UserId, and a Password. The following figure shows an example AccessRequest document.

```xml
<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
    <AccessLicenseNumber>
        YOURACCESSLICENSENUMBER
    </AccessLicenseNumber>
    <UserId>
        YOURUSERID
    </UserId>
    <Password>
        YOURPASSWORD
    </Password>
</AccessRequest>
```

Ship Confirm Request

Forward and Return Shipments

There are four different message types required to make up a complete shipment processing procedure: ShipmentConfirmRequest, ShipmentConfirmResponse, ShipmentAcceptRequest, and ShipmentAcceptResponse.

ShipmentConfirmRequest

The ShipmentConfirmRequest message consists of two complete XML documents. The first document is an AccessRequest. The AccessRequest is immediately followed by (concatenated to) a ShipmentConfirmRequest. The ShipmentConfirmRequest document structure is described in the following table

The "Required" Column has four potential values:

Yes: Always required

No: Always optional

Yes*: Conditionally required. The existence of this element is dependent on the existence of a higher level container. When the Container is present, this element MUST also be present.

Cond: Conditional. There are specific business rules for when this element should be present.

Each element is described with a Name, XPath, Required, Maximum Number of Elements Allowed, Type, Length, and Description.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ShipmentConfirmRequest	/ShipmentConfirmRequest	Yes	1	Container	N/A									
Request	/ShipmentConfirmRequest/Request	Yes	1	Container	N/A									
RequestAction	/ShipmentConfirmRequest/Request/RequestAction	Yes	1	String	11	Indicates the action to be taken by the XML service.	Must be ShipConfirm.							
RequestOption	/ShipmentConfirmRequest/Request/RequestOption	Yes	1	String	1..256	Optional Processing. nonvalidate = No address validation. validate = Fail on failed address validation. Defaults to validate. Note: Full address validation is not performed. Therefore, it is the responsibility of the Shipping Tool User to ensure the address entered is correct to avoid an address correction fee.	Values blank, validate, or nonvalidate.							
TransactionReference	/ShipmentConfirmRequest/Request/TransactionReference	No	1	Container	N/A	TransactionReference identifies transactions between client and server.								
CustomerContext	/ShipmentConfirmRequest/Request/TransactionReference/CustomerContext	No	1	String	1..512	Customer context								
Shipment	/ShipmentConfirmRequest/Shipment	Yes	1	Container	N/A									

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Description	/ShipmentConfirmRequest/Shipment/Description	Cond	1	String	1..35	The Description of Goods for the shipment. Applies to international shipments only. Provide a detailed description of items being shipped for documents and non-documents. Provide specific descriptions, such as annual reports and 9 mm steel screws.	Required if all of the listed conditions are true: ShipFrom and ShipTo countries are not the same; The packaging type is not UPS Letter; The ShipFr om and or ShipTo countries are not in the European Union or the ShipFrom and ShipTo countries are both in the European Union and the shipments service type is not UPS Standard.							
ReturnService	/ShipmentConfirmRequest/Shipment/ReturnService	No	1	Container	N/A	Type of Return service. When this container exists, the shipment is a return shipment.			X					
Code	/ShipmentConfirmRequest/Shipment/ReturnService/Code	Yes*	1	String	1	Return Service types: 2 = UPS Print and Mail (PNM) 3 = UPS Return Service 1-Attempt (RS1) 5 = UPS Return Service 3-Attempt (RS3) 8 = UPS Electronic Return Label (ERL) 9 = UPS Print Return Label (PRL)			X					
DocumentsOnly	/ShipmentConfirmRequest/Shipment/DocumentsOnly	No	1	String	0	Indicates a shipment contains written, typed, or printed communication of no commercial value. If DocumentsOnly is not specified then it implies that the shipment contains non documents or documents of commercial value. Default is a shipment contains non- documents or documents of comm ercial value.	Valid only for shipments with different origin and destination countries. The origin country is not US, and the destination country is not CA, PR or MX.							
Shipper	/ShipmentConfirmRequest/Shipment/Shipper	Yes	1	String	1..35	Container tag for Shippers information								
Name	/ShipmentConfirmRequest/Shipment/Shipper/Name	Yes	1	String	1..35	Shippers company name.								
AttentionName	/ShipmentConfirmRequest/Shipment/Shipper/AttentionName	Cond	1	String	1..35	Shippers Attention Name	Required if destination is international. Required if Invoice and Co International forms are requested and the ShipFrom address is not present.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ShipperNumber	/ShipmentConfirmRequest/Shipment/Shipper/ShipperNumber	Yes	1	String	6	Shipper's six digit account number.	Size must be six alphanumeric characters. Must be associated with the UserId specified in the AccessRequest XML The account must be a valid UPS account number that is active. For US, PR and CA accounts, the account must be either a daily pickup account, an occasional account, or a customer B.I.N account. Drop Shipper accounts are valid for return service shipments only if the account is Trade Direct (TD) enabled. All other accounts must be either a daily pickup account, or an occasional account.							
TaxIdentificationNumber	/ShipmentConfirmRequest/Shipment/Shipper/TaxIdentificationNumber	Cond	1	String	1..15	Shippers Tax Identification Number	Conditionally required if SED form (International forms) is requested and ship From is not mentioned.							
PhoneNumber	/ShipmentConfirmRequest/Shipment/Shipper/PhoneNumber	Cond	1	String	1..15	Shippers Phone Number	Valid values are 0 - 9.If Shipper country is US, PR, CA, and VI, the layout is area code, 7 digit PhoneNumber or area code, 7 digit PhoneNumber, 4 digit extension number; for other countries, the layout is CountryCode, area code, 7 digit number A phone number is required if destination is international.							
FaxNumber	/ShipmentConfirmRequest/Shipment/Shipper/FaxNumber	No	1	String	1..14	Shippers Fax Number.								
EMailAddress	/ShipmentConfirmRequest/Shipment/Shipper/EMailAddress	No	1	String	1..50	Shippers email address.								
Address	/ShipmentConfirmRequest/Shipment/Shipper/Address	Yes	1	Container	N/A	Address of the shipper.	The package should be returned to this address if the package is undeliverable. This address appears on the upper left hand corner of the label. Note: If the ShipFrom container is not present then this address will be used as the ShipFrom address. If this address is used as the ShipFrom the shipment will be rated from this origin address							
AddressLine1	/ShipmentConfirmRequest/Shipment/Shipper/Address/AddressLine1	Yes	1	String	1..35	Address Line 1 of the shipper.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine2	/ShipmentConfirmRequest/Shipment/Shipper/Address/AddressLine2	No	1	String	1..35	Address Line 2 of the shipper. Usually Room/Floor information.								
AddressLine3	/ShipmentConfirmRequest/Shipment/Shipper/Address/AddressLine3	No	1	String	1..35	Address Line 3 of the shipper. Usually department information.								
City	/ShipmentConfirmRequest/Shipment/Shipper/Address/City	Yes	1	String	1..30	Shipper's city.								
StateProvinceCode	/ShipmentConfirmRequest/Shipment/Shipper/Address/StateProvinceCode	Cond	1	String	2..5	Shipper's state or province co de.	Required if shipper is in the US or CA. If Shipper country is US or CA, then the value must be a valid US State/Canadian Province code. If the country is Ireland, the StateProvinceCode will contain the county.								
PostalCode	/ShipmentConfirmRequest/Shipment/Shipper/Address/PostalCode	Cond	1	String	1..10	Shipper's postal code.	If Shipper country is US or Puerto Rico, 5 or 9 digits is required. . The character - may be used to separate the first five digits and the last four digits. If the Shipper country is CA, then the postal code is required and must be 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit. For all other countries the postal code is optional and must be no more than 9 alphanumeric characters long.								
CountryCode	/ShipmentConfirmRequest/Shipment/Shipper/Address/CountryCode	Yes	1	String	2	Shipper's country code.	Must be a valid UPS Billing country code. For Forward shipments it must also be an allowable UPS origin country. For Return Shipment the country code must meet the following conditions:1) At least two of the following country codes are the same: ShipTo, ShipFrom, and Shipper.2) None of the following country codes are the same and are a member of the EU: ShipTo, ShipFrom, and Shipper.3)If any of the two follo wing country codes :ShipTo/ ShipFrom/ Shipper are members in EU otherwise check if the shipper has Third Country Contract.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ShipTo	/ShipmentConfirmRequest/Shipment/ShipTo	Yes	1	Container	N/A									
CompanyName	/ShipmentConfirmRequest/Shipment/ShipTo/CompanyName	Yes	1	String	1..35	Consignees company name.								
AttentionName	/ShipmentConfirmRequest/Shipment/ShipTo/AttentionName	Cond	1	String	1..35	Contact name at the consignee's location.	Required for: UPS Next Day Air Early A.M. service, and when ShipTo country is different than ShipFrom country. Required if Invoice International form is requested							
TaxIdentificationNumber	/ShipmentConfirmRequest/Shipment/ShipTo/TaxIdentificationNumber	No	1	String	1..15	Consignees tax identification number.								
PhoneNumber	/ShipmentConfirmRequest/Shipment/ShipTo/PhoneNumber	Cond	1	String	1..15	Consignees phone number.	Required for: UPS Next Day Air Early A.M. service, and when Ship To country is different than the ShipFrom country. If ShipTo country is US, PR, CA, and VI, the layout is area code, 7 digit PhoneNumber or area code, 7 digit PhoneNumber, 4 digit extension number; number; for other countries, the layout is CountryCode, area code, 7 digit number .							
FaxNumber	/ShipmentConfirmRequest/Shipment/ShipTo/FaxNumber	No	1	String	1..15	Consignees fax number.	If ShipTo country is US 10 digits allowed, otherwise 1..15 digits allowed.							
EMailAddress	/ShipmentConfirmRequest/Shipment/ShipTo/EMailAddress	No	1	String	1..50	Ship To email address.								
Address	/ShipmentConfirmRequest/Shipment/ShipTo/Address	Yes	1	Container	N/A									
AddressLine1	/ShipmentConfirmRequest/Shipment/ShipTo/Address/AddressLine1	Yes	1	String	1..35	Address Line 1 of the consignee.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine2	/ShipmentConfirmRequest/Shipment/ShipTo/Address/AddressLine2	No	1	String	1..35	Address Line 2 of the consignee. Usually Room/Floor information.								
AddressLine3	/ShipmentConfirmRequest/Shipment/ShipTo/Address/AddressLine3	No	1	String	1..35	Address Line 3 of the consignee. Usually department information.								
City	/ShipmentConfirmRequest/Shipment/ShipTo/Address/City	Yes	1	String	1..30	Consignee's city.								
StateProvinceCode	/ShipmentConfirmRequest/Shipment/ShipTo/Address/StateProvinceCode	Cond	1	String	2..5	Consignee's state or province code. Required for US or Canada.	If destination is US or CA, then the value must be a valid US State/Canadian Province code. If the country is Ireland, the StateProvinceCode will contain the county.								
PostalCode	/ShipmentConfirmRequest/Shipment/ShipTo/Address/PostalCode	Cond	1	String	1..10	Consignee's postal code.	If the ShipTo country is US or Puerto Rico, 5 or 9 digits is required. . The character - may be used to separate the first five digits and the last four digits. If the ShipTo country is CA, then the postal code is required and must be 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit. Otherwise optional. For all other countries the postal code is optional and must be no more than 9 alphanumeric characters long.								
CountryCode	/ShipmentConfirmRequest/Shipment/ShipTo/Address/CountryCode	Yes	1	String	2	Consignee's country code.	Must be a valid UPS Billing country code. For Return Shipment the country code must meet the following conditions: 1) At least two of the following country codes are the same: ShipTo, ShipFrom, and Shipper. 2) None of the following country codes are the same and are a member of the EU: ShipTo, ShipFrom, and Shipper. 3)If any of the two following country codes :ShipTo/ ShipFrom/ Shipper are members in EU otherwise check if the shipper has Third Country Contract.								
ResidentialAddress	/ShipmentConfirmRequest/Shipment/ShipTo/Address/ResidentialAddress	No	1	String	0	Consignees Residential address indicator. The presence indicates residential address, the absence indicates a business address.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
LocationID	/ShipmentConfirmRequest/Shipment/ShipTo/LocationID	No	1	String	3-10	Location ID is a unique identifier referring to a specific shipping/receiving location.	Location ID must be alphanumeric characters. All letters must be capitalized.							
ShipFrom	/ShipmentConfirmRequest/Shipment/ShipFrom	Cond	1	Container	N/A	Required if pickup location is different from the shippers address.	Required for return shipment							
CompanyName	/ShipmentConfirmRequest/Shipment/ShipFrom/CompanyName	*Yes	1	String	1..35	Origin locations company name.	Required if ShipFrom tag is in the XML.							
AttentionName	/ShipmentConfirmRequest/Shipment/ShipFrom/AttentionName	*Yes	1	String	1..35	Contact name at the pickup location.	.Required if ShipFrom tag is in the XML and Invoice or CO International forms is requested							
TaxIdentificationNumber	/ShipmentConfirmRequest/Shipment/ShipFrom/TaxIdentificationNumber	Cond	1	String	1..15	Company's Tax Identification Number at the pick up location	Conditionally required if SED form (International forms) is requested							
PhoneNumber	/ShipmentConfirmRequest/Shipment/ShipFrom/PhoneNumber	*Yes	1	String	1..15	Origin locations phone number.	If ShipFrom country is US, PR, CA, and VI, the layout is area code, 7 digit phone number or area code, 7 digit phone number, 4 digit extension number; for other countries, the layout is CountryCode, area code, 7 digit number. Required if ShipFrom tag is in the XML and International forms is requested .							
FaxNumber	/ShipmentConfirmRequest/Shipment/ShipFrom/FaxNumber	No	1	String	1..15	Origin locations fax number.								
Address	/ShipmentConfirmRequest/Shipment/ShipFrom/Address	*Yes	1	Container	N/A	Address of the pickup location.	The package will be originating from or being shipped from this address. The shipment will be rated from this origin address to the destination ship to address.							
AddressLine1	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/AddressLine1	*Yes	1	String	1..35	Address Line 1 of the pickup location.	Required if ShipFrom tag is in the XML.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine2	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/AddressLine2	No	1	String	1..35	Address Line 2 of the pickup location. Usually Room/Floor information.								
AddressLine3	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/AddressLine3	No	1	String	1..35	Address Line 3 of the pickup location. Usually department information.								
City	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/City	*Yes	1	String	1..30	Origin locations city.	Required if ShipFrom tag is in the XML.							
StateProvinceCode	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/StateProvinceCode	Cond	1	String	2..5	Origin locations state or province code.	Required if ShipFrom tag is in the XML, and ShipFrom/Country is US. If ShipFrom country is US or CA, then the value must be a valid US State/Canadian Province code. If the country is Ireland, the StateProvinceCode will contain the county.							
PostalCode	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/PostalCode	Cond	1	String	1..10	Origin locations postal code.	Required if ShipFrom tag is in the XML and the ShipFrom country is the US, Puerto Rico . For US, Puerto Rico must be valid 5 or 9 digit postal code. . The character - may be used to separate the first five digits and the last four digits. If the ShipFrom country is CA, then the postal code must be 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit. For all other countries the postal code is optional and must be no more than 9 alphanumeric characters long.							
CountryCode	/ShipmentConfirmRequest/Shipment/ShipFrom/Address/CountryCode	Cond	1	String	2	Origin locations country code.	Required if ShipFrom tag is in the XML. For Return Shipment the country code must meet the following conditions:1) At least two of the following country codes are the same: ShipTo, ShipFrom, and Shipper.2) None of the following country codes are the same and are a member of the EU: ShipTo, ShipFrom, and Shipper.3) 3If any of the two following country codes :ShipTo/ ShipFrom/ Shipper are members in EU otherwise check if the shipper has Third Country Contract.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
SoldTo	/ShipmentConfirmRequest/Shipment/SoldTo	Cond	1	Container	N/A	The person or company who imports and pays any duties due on the current shipment.	Applies to Invoice and NAFTA CO Forms. Required if Invoice or NAFTA CO (International Form) is requested							
Option	/ShipmentConfirmRequest/Shipment/SoldTo/Option	No	1	String		The text associated with the code will be printed in the sold to section of the NAFTA CO form The values indicate the following 01 - Unknown 02 - Various	Applies to NAFTA CO form. Possible Values are							
CompanyName	/ShipmentConfirmRequest/Shipment/SoldTo/CompanyName	Cond	1	String	1..35	Company name.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for Invoice. Required for NAFTA CO if sold to option is not provided							
AttentionName	/ShipmentConfirmRequest/Shipment/SoldTo/AttentionName	Cond	1	String	1..35	Contact name.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for Invoice. Required for NAFTA CO if sold to option is not provided							
TaxIdentificationNumber	/ShipmentConfirmRequest/Shipment/SoldTo/TaxIdentificationNumber	No	1	String	1..15	SoldTo Tax Identification Number	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present							
PhoneNumber	/ShipmentConfirmRequest/Shipment/SoldTo/PhoneNumber	Cond	1	String	1..15	Sold To contacts phone number.	Applies to Invoice form . Applies to NAFTA CO form if sold to option is empty or not present Required for Invoice. Required for NAFTA CO if sold to option is not provided							
Address	/ShipmentConfirmRequest/Shipment/SoldTo/Address	No	1	Container	N/A	Address of the Sold to location.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for Invoice. Required for NAFTA CO if sold to option is not provided							
AddressLine1	/ShipmentConfirmRequest/Shipment/SoldTo/Address/AddressLine1	*Yes	1	String	1..35	Address Line 1 of the Sold to location.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present. Required for Invoice. Required for NAFTA CO if sold to option is not provided							
AddressLine2	/ShipmentConfirmRequest/Shipment/SoldTo/Address/AddressLine2	No	1	String	1..35	Address Line 2 of the pickup location. Usually Room/Floor information.	Applies to Invoice form. Applies to NAFTA CO form if sold to optio n is empty or not present							
AddressLine3	/ShipmentConfirmRequest/Shipment/SoldTo/Address/AddressLine3	No	1	String	1..35	Address Line 3 of the pickup location. Usually department information.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
City	/ShipmentConfirmRequest/Shipment/SoldTo/Address/City	*Yes	1	String	1..30	SoldTo locations city.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for Invoice. Required for NAFTA CO if sold to option is not provided							
StateProvinceCode	/ShipmentConfirmRequest/Shipment/SoldTo/Address/StateProvinceCode	Cond	1	String	0.5	SoldTo locations state or province code.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for certain countries							
PostalCode	/ShipmentConfirmRequest/Shipment/SoldTo/Address/PostalCode	Cond	1	String	1..10	SoldTo locations postal code.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for certain countries The length of the postal code depends on the country code.							
CountryCode	/ShipmentConfirmRequest/Shipment/SoldTo/Address/CountryCode	Cond	1	String	2	SoldTo locations country code.	Applies to Invoice form. Applies to NAFTA CO form if sold to option is empty or not present Required for Invoice Required for NAFTA CO if sold to option is not provided							
PaymentInformation	/ShipmentConfirmRequest/Shipment/PaymentInformation	Cond	1	Container	N/A	Payment information	This element or its sibling element, ItemizedPaymentInformation, must be present but no more than one can be present.							
Prepaid	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid	Cond	1	Container	N/A	Prepaid container for a billing option.	Required for the Bill Shipper billing option. This element or its sibling element, BillThirdParty or FreightCollect must be present, but no more than one can be present.							
BillShipper	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper	Yes	1	Container	N/A	Container for the BillShipper billing option. The two payment methods that are available for the Bill Shipper billing option are account number or credit card.	A payment method must be specified for the Bill Shipper billing option. Therefore, either the AccountNumber child element or the CreditCard child element must be provided, but not both.							
AccountNumber	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/AccountNumber	Cond	1	String	6	UPS Account number.	Must be the same UPS account number as the one provided in Shipper/ShipperNumber. . Either this element or the sibling element CreditCard must be provided, but both may not be provided.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CreditCard	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard	Cond	1	Container	N/A	Credit card information container	Required if /ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/AccountNumber is not present. Credit card payment is valid for shipments without return service only.	X						
Type	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Type	*Yes	1	String	2	Values are 01 = American Express, 03 = Discover, 04 = MasterCard, 05 = Optima, 06 = VISA, 07 = Bravo, and 08 = Diners Club.	Valid values are: 01, 03, 04 and 06.For Discover card the ShipFrom country has to be US	X						
Number	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Number	*Yes	1	String	9..16	Credit Card number		X						
ExpirationDate	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/ExpirationDate	*Yes	1	String	6	Format is MMYYYY where MM is the 2 digit month and YYYY is the 4 digit year.	Valid month values are 01-12 and valid year values are Present Year - 2015	X						
SecurityCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/SecurityCode	Cond	1	String	3..4	Three or four digits that can be found either on front of credit card or on the back of credit card. Number of digits varies by credit card type.	Valid values are 3 or 4 digit It is recommended to provide the security code if credit card information is provided and when the ShipFrom countries are other than the below mentioned countries. Argentina Bahamas Costa Rica Dominican Rep Guatemala Panama Puerto Rico Russia	X						
Address	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address	Cond	1	Container	N/A	Container to hold the Credit card Billing Address.	It is required to provide the billing address if credit card information is provided and when the ShipFrom country is the US, PR, and CA.	X						
AddressLine1	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/AddressLine1	*Yes	1	String	1..35	Address Line 1 of the credit card billing address. Usually Street address information.		X						

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine2	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/AddressLine2	No	1	String	1..35	Address Line 2 of the credit card billing Address. Usually Room/Floor information.		X						
AddressLine3	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/AddressLine3	No	1	String	1..35	Address Line 3 of the credit card billing address. Usually department information.		X						
City	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/City	*Yes	1	String	1..30	City of the credit card billing address		X						
StateProvinceCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/StateProvinceCode	*Yes	1	String	2..5	State or province code of the credit card billing address.		X						
PostalCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/PostalCode	*Yes	1	String	1..10	Credit card billing addressee postal code.		X						
CountryCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/Prepaid/BillShipper/CreditCard/Address/CountryCode	*Yes	1	String	2	Credit card billing address country code.	Must be a valid UPS Billing country code. For Discover card it should be US	X						
BillThirdParty	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty	Cond	1	Container	N/A	Container for the third party billing option.	This element or its sibling element Prepaid or FreightCollect must be present, but no more than one can be present.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
BillThirdPartyShipper	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty/BillThirdPartyShipper	Yes	1	Container	N/A	Container for the third party shipper billing option.								
AccountNumber	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty/BillThirdPartyShipper/AccountNumber	Yes	1	String	6	The UPS account number of the third party shipper.	The account must be a valid UPS account number that is active. For US, PR and CA accounts, the account must be either a daily pickup account, an occasional account, or a customer B.I.N account, or a drop shipper account. All other accounts must be either a daily pickup account, an occasional account, a drop shipper account, or a non-shipping account							
ThirdParty	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty/BillThirdPartyShipper/ThirdParty	Yes	1	Container	N/A	Container for additional information for the third party shippers UPS account.								
Address	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty/BillThirdPartyShipper/ThirdParty/Address	Yes	1	Container	N/A	Container for additional information for the third party shippers UPS account address.								
PostalCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty/BillThirdPartyShipper/ThirdParty/Address/PostalCode	Cond	1	String	1..10	The postal code for the UPS accounts pickup address. The pickup postal code was entered in the UPS system when the account was set-up.	The postal code must be the same as the UPS account pickup address postal code. Required for United States and Canadian UPS accounts and/or if the UPS account pickup address has a postal code. If the UPS accounts pickup country is US or Puerto Rico, the postal code is 5 or 9 digits. The character - may be used to separate the first five digits and the last four digits. If the UPS accounts pickup country is CA, the postal code is 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CountryCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/BillThirdParty/BillThirdPartyShipper/ThirdParty/Address/CountryCode	Yes	1	String	2	The country code for the UPS accounts pickup address.								
FreightCollect	/ShipmentConfirmRequest/Shipment/PaymentInformation/FreightCollect	Cond	1	Container	N/A	Container for the Freight Collect billing option.	This element or its sibling element Prepaid or BillThirdParty must be present, but no more than one can be present. Only allowed for shipment without return service.	×						
BillReceiver	/ShipmentConfirmRequest/Shipment/PaymentInformation/FreightCollect/BillReceiver	Yes	1	Container	N/A	Container for billing the consignee all freight charges option.		×						
AccountNumber	/ShipmentConfirmRequest/Shipment/PaymentInformation/FreightCollect/BillReceiver/AccountNumber	Yes	1	String	6	The UPS account number of Freight Collect.	The account must be a valid UPS account number that is active. For US, PR and CA accounts, the account must be either a daily pickup account, an occasional account, a customer B.I.N account, or a dropper shipper account. All other accounts must be either a daily pickup account, an occasional account, a drop shipper account, or a non-shipping account	×						
Address	/ShipmentConfirmRequest/Shipment/PaymentInformation/FreightCollect/BillReceiver/Address	No	1	Container	N/A	Container for additional information for the bill receivers UPS account address.		×						
PostalCode	/ShipmentConfirmRequest/Shipment/PaymentInformation/FreightCollect/BillReceiver/Address/PostalCode	Cond	1	String	1..10	The postal code for the UPS accounts pickup address. The pickup postal code was entered in the UPS system when the account was set-up.	The postal code must be the same as the UPS account pickup address postal code. Required for United States and Canadian UPS accounts and/or if the UPS account pickup address has a postal code. If the UPS accounts pickup country is US or Puerto Rico, the postal code is 5 or 9 digits. If the UPS accounts pickup country is CA, the postal code is 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit.	×						

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ConsigneeBilled	/ShipmentConfirmRequest/Shipment/PaymentInformation/ConsigneeBilled	Cond	1	String	0	Consignee Billing payment option indicator. The presence indicates consignee billing option is selected. The absence indicates one of the other payment options is selected.	This element or its sibling element Prepaid or FreightCollect or BillThirdParty must be present, but no more than one can be present. Only applies to US/PR and PR/US shipment origins and destination.							
ItemizedPaymentInformation	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation	Cond	1	Container	N/A	Payment information container for detailed shipment charges. The two shipment charges that are available for specification are Transportation charges and Duties and Taxes.	This element or its sibling element, PaymentInformation, must be present but no more than one can be present.							
ShipmentCharge	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge	Yes	1	Container	N/A	Shipment charge container	If Duty and Tax charges are applicable to a shipment and a payer is not specified, the default payer of Duty and Tax charges is Bill to Receiver.							
Type	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/Type	*Yes	1	String	2	Values are 01 = Transportation, 02 = Duties and Taxes	A shipment charge type of 01 = Transportation is required. A shipment charge type of 02 = Duties and Taxes is not required; however, this charge type is invalid for Qualified Domestic Shipments. A Qualified Domestic Shipment is any shipment in which one of the following applies:1) The origin and destination country is the same2) US to PR shipment3) PR to US shipment4) The origin and destination country are both European Union Countries and the GoodsNotInFreeCirculation indicator is not present5) The origin and destination IATA code is the same							
BillShipper	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper	Cond	1	Container	N/A	Container for the BillShipper billing option. The two payment methods that are available for the Bill Shipper billing option are account number or credit card.	This element or its sibling element, BillReceiver, BillThirdParty or ConsigneeBilled, must be present but no more than one can be present.							
AccountNumber	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/AccountNumber	Cond	1	String	6	UPS account number	Must be the same UPS account number as the one provided in Shipper/ShipperNumber. Either this element or the sibling element CreditCard must be provided, but both may not be provided.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CreditCard	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard	Cond	1	Container	N/A	Credit card information container	Required if /ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/AccountNumber is not present. Credit card payment is valid for shipments without return service only.							
Type	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Type	*Yes	1	String	2	Values are 01 = American Express, 03 = Discover, 04 = MasterCard, 05 = Optima, 06 = VISA, 07 = Bravo, and 08 = Diners Club	Valid values are: 01, 03, 04 and 06.For Discover card the ShipFrom country has to be US							
Number	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Number	*Yes	1	String	9..16	Credit Card number								
ExpirationDate	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/ExpirationDate	*Yes	1	String	6	Format is MMYYYY where MM is the 2 digit month and YYYY is the 4 digit year.	Valid month values are 01-12 and valid year values are Present Year - (Present Year + 10 years)							
SecurityCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/SecurityCode	Cond	1	String	3..4	Three or four digits that can be found either on top of credit card number or on the back of credit card. Number of digits varies for different type of credit card.	Valid values are 3 or 4 digits. Required if credit card information is provided and ShipFrom country is US, CA, or PR.							
Address	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address	Cond	1	Container	N/A	Container to hold the Credit card Billing Address.	Required if credit card information is provided and ShipFrom countries are US, CA and PR.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine1	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/AddressLine1	*Yes	1	String	1..35	Address Line 1 of the credit card billing address. Usually Street address information.								
AddressLine2	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/AddressLine2	No	1	String	1..35	Address Line 2 of the credit card billing Address. Usually Room/Floor information.								
AddressLine3	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/AddressLine3	No	1	String	1..35	Address Line 3 of the credit card billing address. Usually department information.								
City	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/City	*Yes	1	String	1..30	City of the credit card billing address								
StateProvinceCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/StateProvinceCode	*Yes	1	String	2..5	State or province code of the credit card billing address.								
PostalCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/PostalCode	*Yes	1	String	1..10	Credit card billing addressee postal code.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CountryCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillShipper/CreditCard/Address/CountryCode	*Yes	1	String	2	Credit card billing address country code.	Must be a valid UPS Billing country code. For Discover card it should be US							
BillReceiver	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillReceiver	Cond	1	Container	N/A	Container for the BillReceiver billing option.	This element or its sibling element, BillShipper, BillThirdParty or ConsigneeBilled, must be present but no more than one can be present. For a return shipment, BillReceiver is invalid for Transportation charges.							
AccountNumber	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillReceiver/Acco untNumber	Yes	1	String	6	The UPS account number.	The account must be a valid UPS account number that is active. For US, PR and CA accounts, the account must be either a daily pickup account, an occasional account, a customer B.I.N account, or a dropper shipper account. All other accounts must be either a daily pickup account, an occasional account, a drop shipper account, or a non-shipping account							
Address	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillReceiver/Address	No	1	Container	N/A	Container for additional information for the bill receivers UPS account address.								
PostalCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillReceiver/Address/PostalCode	Cond	1	String	1..10	The postal code for the UPS accounts pickup address. The pickup postal code was entered in the UPS system when the account was set-up.	The postal code must be the same as the UPS account pickup address postal code. Required for United States and Canadian UPS accounts and/or if the UPS account pickup address has a postal code. If the UPS accounts pickup country is US or Puerto Rico, the postal code is 5 or 9 digits. The character - may be used to separate the first five digits and the last four digits. If the UPS accounts pickup country is CA, the postal code is 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
BillThirdParty	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty	Cond	1	Container	N/A	Container for the third party billing option.	This element or its sibling element, BillShipper, BillReceiver or ConsigneeBilled, must be present but no more than one can be present.							
BillThirdPartyShipper	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyShipper	Cond	1	Container	N/A	Container for the shipper third party billing option.	This element or its sibling element, BillThirdPartyConsignee, must be present but no more than one can be present.							
AccountNumber	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyShipper/AccountNumber	Yes	1	String	6	The UPS account number of the third party shipper.	The account must be a valid UPS account number that is active. For US, PR and CA accounts, the account must be either a daily pickup account, an occasional account, or a customer B.I.N account, or a drop shipper account. All other accounts must be either a daily pickup account, an occasional account, a drop shipper account, or a non-shipping account							
ThirdParty	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyShipper/ThirdParty	Yes	1	Container	N/A	Container for additional information for the third party shippers UPS account.								
Address	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyShipper/ThirdParty/Address	Yes	1	Container	N/A	Container for additional information for the third party shippers UPS account address.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
PostalCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyShipper/ThirdParty/Address/PostalCode	Cond	1	String	1..10	The postal code for the UPS accounts pickup address. The pickup postal code was entered in the UPS system when the account was set-up.	The postal code must be the same as the UPS account pickup address postal code. Required for United States and Canadian UPS accounts and/or if the UPS account pickup address has a postal code. If the UPS accounts pickup country is US or Puerto Rico, the postal code is 5 or 9 digits. The character - may be used to separate the first five digits and the last four digits. If the UPS accounts pickup country is CA, the postal code is 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit.							
CountryCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyShipper/ThirdParty/Address/CountryCode	Yes	1	String	2	The country code for the UPS accounts pickup address.								
BillThirdPartyConsignee	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyConsignee	Cond	1	Container	N/A	Container for the consignee third party billing option.	This element or its sibling element, BillThirdPartyShipper, must be present but no more than one can be present.							
AccountNumber	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyConsignee/AccountNumber	Yes	1	String	6	The UPS account number of the third party consignee.	The account must be a valid UPS account number that is active. For US, PR and CA accounts, the account must be either a daily pickup account, an occasional account, or a customer B.I.N account, or a drop shipper account. All other accounts must be either a daily pickup account, an occasional account, a drop shipper account, or a non-shipping account							
ThirdParty	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyConsignee/ThirdParty	Yes	1	Container	N/A	Container for additional information for the third party consignees UPS account.								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Address	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyConsignee/ThirdParty/Address	Yes	1	Container	N/A	Container for additional information for the third party consig nees UPS account address.								
PostalCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyConsignee/ThirdParty/Address/PostalCode	Cond	1	String	1..10	The postal code for the UPS accounts pickup address. The pickup postal code was entered in the UPS system when the account was set-up.	The postal code must be the same as the UPS account pickup address postal code. Required for United States and Canadian UPS accounts and/or if the UPS account pickup address has a postal code. If the UPS accounts pickup country is US or Puerto Rico, the postal code is 5 or 9 digits. The character - may be used to separate the first five digits and the last four digits. If the UPS accounts pickup country is CA, the postal code is 6 alphanumeric characters whose format is A#A#A# where A is an uppercase letter and # is a digit.							
CountryCode	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/BillThirdParty/BillThirdPartyConsignee/ThirdParty/Address/CountryCode	Yes	1	String	2	The country code for the UPS accounts pickup address.								
ConsigneeBilled	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/ShipmentCharge/ConsigneeBilled	Cond	1	String	0	Consignee Billing payment option indicator. The presence indicates consignee billing option is selected. The absence indicates one of the other payment options is selected.	This element or its sibling element, BillShipper, BillReceiver or BillThirdParty, must be present but no more than one can be present. This billing option is valid for a shipment charge type of Transportation only. Only applies to US/PR and PR/US shipment origins and destination.							
SplitDutyVATIndicator	/ShipmentConfirmRequest/Shipment/ItemizedPaymentInformation/SplitDutyVATIndicator	No	1	String	0	Split Duty VAT Indicator. The presence indicates the payer specified for Transportation Charges will pay transportation charges and any duties that apply to the shipment. The payer specified for Duties and Taxes will pay the VAT (Value-Added Tax) only.	The payment method for Transportation charges must be UPS account. The UPS account must be a daily pickup account or an occasional account.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
GoodsNotInFreeCirculationIndicator	/ShipmentConfirmRequest/Shipment/GoodsNotInFreeCirculationIndicator	No	1	String	0	Goods Not In F ree Circulation indicator.	This indicator is invalid for a package type of UPS Letter and DocumentsOnly.							
RateInformation	/ShipmentConfirmRequest/Shipment/RateInformation	No	1	Container	N/A	Rate information								
NegotiatedRatesIndicator	/ShipmentConfirmRequest/Shipment/RateInformation/NegotiatedRatesIndicator	Yes*	1	String	0	Negotiated Rates option indicator. If the indicator is present and the Shipper is authorized then Negotiated Rates should be returned in the response.	The Shipper account and UserId combination must be qualified to receive Negotiated rates. If the indicator is present and the Shipper is qualified then Negotiated rates will be returned in the response. Only the Shipper account number taken from /ShipmentConfirmRequest/Shipment/Shipper/ShipperNumber is used when checking qualification for Negotiated rates.							
MovementReferenceNumber	/ShipmentConfirmRequest/Shipment/MovementReferenceNumber	No	1	String	18	Movement Reference Number (MRN) information co ntainer	Must contain alphanumeric characters only. Must be a length of 18 characters. The 3rd and 4th Characters must be the Shipper country ISO Code.							
ReferenceNumber	/ShipmentConfirmRequest/Shipment/ReferenceNumber	No	2	Container	N/A	Reference Number information container								
BarCodeIndicator	/ShipmentConfirmRequest/Shipment/ReferenceNumber/BarCodeIndicator	No	1	String	0	If the indicator is present then the reference numbers value will be bar coded on the label.	Allowed for shipment with return service only . Only one shipment-level or package-level reference number can be bar coded per shipment. In order to barcode a reference number, its value must be no longer than 14 alphanumeric characters or 24 numeric characters and cannot contain spaces.							
Code	/ShipmentConfirmRequest/Shipment/ReferenceNumber/Code	Yes	1	String	2	Shipment Reference number type code. The code specifies the Reference name.	Valid if the origin/destination pair is no t US/US or PR/PR2 character alpha-numeric.							
Value	/ShipmentConfirmRequest/Shipment/ReferenceNumber/Value	Yes	1	String	1..35	Customer supplied reference number.	Valid if the origin/destination pair is not US/US or PR/PR							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Service	/ShipmentConfirmRequest/Shipment/Service	Yes	1	Container	N/A	UPS service type								
Code	/ShipmentConfirmRequest/Shipment/Service/Code	Yes	1	String	2	Values are: 01 = Next Day Air, 02 = 2nd Day Air, 03 = Ground, 07 = Express, 08 = Expedited, 11 = UPS Standard, 12 = 3 Day Select, 13 = Next Day Air Saver, 14 = Next Day Air Early AM, 54 = Express Plus, 59 = 2nd Day Air A.M., 65 = UPS Saver. 82 = UPS Today Standard 83 = UPS Today Dedicated Courier 84 = UPS Today Intercity 85 = UPS Today Express 86 = UPS Today Express Saver	The following Services are not available to return shipment: 13 - Next Day Air Saver 14 - Next Day Air Early AM, 59 - 2nd Day Air A.M. 82 = UPS Today Standard 83 = UPS Today Dedicated Courier 84 = UPS Today Intercity 8 5 = UPS Today Express 86 = UPS Today Express Saver.							
Description	/ShipmentConfirmRequest/Shipment/Service/Description	No	1	String	1..35	Description of the service code. Examples are Next Day Air, Worldwide Express, and Ground.								
InvoiceLineTotal	/ShipmentConfirmRequest/Shipment/InvoiceLineTotal	Cond	1	Container	N/A		Required for forward shipments whose origin is the US and destination is Puerto Rico or Canada. Not available for any other shipments. FOR OTHER DESTINATIONS the InvoiceLineTotal in the International Forms Container must be used.							
CurrencyCode	/ShipmentConfirmRequest/Shipment/InvoiceLineTotal/CurrencyCode	No	1	String	3	Invoice Line Total currency type. Defaults to the currency used in the shippers country.								
MonetaryValue	/ShipmentConfirmRequest/Shipment/InvoiceLineTotal/MonetaryValue	Yes	1	String	1..19	Invoice Line Total amount for the entire shipment.	Valid values are from 1 to 99999999							
ShipmentServiceOptions	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions	No	1	Container	N/A									
SaturdayDelivery	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/SaturdayDelivery	No	1	String	0	Saturday delivery indicator. The presence indicates Saturday delivery, the absence indicates not Saturday delivery.	Available to all shipment types.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
COD	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/COD	No	1	Container	N/A	COD container	Indicates COD is requested. Shipment COD is only available for EU origin countries and for shippers account t ype Daily Pickup and Drop Shipping Not available to shipment with return service.	X						
CODCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/COD/CODCode	Yes	1	String	1	COD type value. 3 = Tagless COD.	Valid values are 3.	X						
CODFundsCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/COD/CODFundsCode	No	1	String		Values are: 1 = cash 9 = check, cashiers check or money order - no cash allowed		X						
CODAmount	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/COD/CODAmount	Yes	1	Container	N/A			X						
CurrencyCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/COD/CODAmount/CurrencyCode	No	1	String	3	COD amount currency code type. Defaults to the currency used in the destination country.		X						
MonetaryValue	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/COD/CODAmount/MonetaryValue	Yes	1	String	1..8	COD Amount.		X						
Notification	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification	No	Many (up to 3)	Container	N/A	Container for the Quantum View notification (QVN) (valid for shipment without return service) or Return Notification (valid for shipment with UPS 1-Attempt and UPS 3-Attempt Return Services).								
NotificationCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/NotificationCode	Yes	1	String	1	The type of notification requested. Valid Value: 6- QVN Ship Notification 7- QVN Exception Notification 8 - QVN Delivery Notification 2-Return Notification	Quantum view Notification is only allowed for shipment without return service; Return Notification is only for allowed return service 1-Attempt and 3 -Attempt							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
EMailMessage	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage	Yes	1	Container	N/A	Container for the eMail message.								
EMailAddress	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/EMailAddress	Yes	Many (up to 5)	String	1..50	Email address where the notification is sent	Up to five email addresses are allowed in the shipment for all the Quantum View TM notification. Up to two email address for return notification.							
Undeliverable EMailAddress	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/UndeliverableEMailAddress	No	1	String	1..50	The address where an undeliverable eMail message is sent if the eMail with the notification is undeliverable.	The UndeliverableEMailAddress must occur only once in the shipment							
FromEMailAddress	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/FromEMailAddress	Cond	1	String	1..50	The e-mail address specifies the Reply To E-mail address. The From field of the message header contains pkginfo@ups.com.	Return Notification only.							
FromName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/FromName	No	1	String	1..35	The name the email will appear to be from. Defaults to the Shipper Name	The FromName must occur only once in the shipment							
Memo	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/Memo	No	1	String	1..150	User defined text that will be included in the eMail.	The Memo must occur only once in the shipment							
Subject	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/Subject		1	String		The eMail's subject. Defaults to text provided by UPS	Return Notification only.		X					

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
SubjectCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/Notification/EMailMessage/SubjectCode		1	String		Specifies a reference code and reference number to display in the subject of the Notification. The valid subject codes are: 01 - Shipment Reference Number 1 02 - Shipment Reference Number 2 03 - package Reference Number 1 04 - package Reference Number 2 08 - Subject Text (Return Notification only) If a subject code is not provided or provided that refers to a nonexistent reference number, the subject will default to shipment Identification Number	For return notification: If the subject code tag is not provided and the subject text is provided, the subject of the notification will be the subject text; If the subject text is provided and the subject code tag exists, then the subject code value must be 08. If Subject code is 08, subject text must exist.							
LabelDelivery	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery	No	1	Container	N/A	Container for the Label Delivery accessorial	Valid for shipments with a Electronic Return Label Return Service.		X					
LabelLinkIndicator	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/LabelLinkIndicator	No	1	String	0	Indicates the Label Recovery and Receipt Recovery URL links are to be returned in the XML Response.			X					
EMailMessage	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage	No	1	Container	N/A	Container for the eMail message.			X					
EMailAddress	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/EMailAddress	Yes*	1	String	1..50	The destination eMail address for the Label Delivery.			X					
Undeliverable EMailAddress	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/UndeliverableEMailAddress	No	1	String	1..50	The address where an undeliverable eMail message is sent if the Label Delivery email is undeliverable.	Defaults to FromEMailAddress.		X					

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
FromEMailAddress	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/FromEMailAddress	Yes*	1	String	1..50	The e-mail address specifies the Reply To E-mail address. The From field of the message header contains pkginfo@ups.com.			X					
FromName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/FromName	No	1	String	1..35	The name notification will appear to be from. Defaults to the Shipper Name			X					
Memo	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/Memo	No	1	String	1..150	User defined text that will be included in the eMail.			X					
Subject	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/Subject	No	1	String		The eMail's subject. Defaults to the Label Delivery Notification plus the shipment ID. Defaults to text provided by UPS								
SubjectCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/LabelDelivery/EMailMessage/SubjectCode	No	1	String		Specifies a reference code and reference number to display in the subject of the Label Delivery notification. When the subject code is provided, the subject will contain the following: 1.UPS Label Delivery 2.The reference code (the reference code will be mapped to the corresponding ANSI value) 3.Plus the reference number.	If the subject code tag is not provided and the subject text is provided, the subject of the notification will be the subject text; If the subject text is provided, and the subject code tag exists, then the subject code value must be 08; If Subject code is 08, subject text must exist. If a subject code is provided that refers to a nonexistent reference number, the subject will default to the shipment identification number.							
InternationalForms	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms	No	1	Container	N/A	International Forms information								

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
FormType	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/FormType	*Yes	Many (up to 4)	String	2	Indicates the name of the International form requested.	Possible Values are 01 - Invoice 02 - SED 03 - CO 04 - NAFTA CO 05 - Partial Invoice For shipment with return service, 01 or 05 are the only valid value. Note: 01 and 05 are mutually exclusive and 05 is only valid for return shipments only.			Req	Req	Req	Req	Req
AdditionalDocumentIndicator	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/AdditionalDocumentIndicator	No	1	Empty	0	Presence of the indicator means user will supply additional document, such as SED, NAFTA_CO or CO.	1. This indicator should be set when the shipper intends to utilize UPS paperless invoice functionality and the shipper has SELF-PREPARED other International Forms (SEC, CO, NAFTACO) to accompany the shipment. It is evaluated only when: - account is paperless enabled - movement requires an invoice - destination country accepts paperless invoice - invoice data is supplied by the client and - data passes validation			Opt	Opt	Opt	Opt	0
FormGroupIdName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/FormGroupIdName	No	1	String	50	Contains description text which identifies the group of International forms. This element does not appear on the forms.				N/A	N/A	N/A	N/A	N/A
SEDFilingOption	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/SEDFilingOption	Cond	1	String	2	Indicates the SED filing option. If UPS files SED on shippers behalf, there is additional $10 charge to the shipper - Do not include in Developers Guide.	Applicable for SED form and is required. Valid values is:01 - Shipper filing SED02 - UPS filing SED on Shippers behalf - Do not include in Developers Guide.			N/A	N/A	N/A	Req	N/A
Contacts	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts	Cond	1	Container	N/A	Holds the contact information of various parties.	Applicable for SED form and NAFTA CO only. Required for NAFTA CO and Invoice. Ultimate consignee contact information is required for SED. Producer contact information is required for NAFTA O			N/A	N/A	N/A	Req	N/A
ForwardAgent	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent	No	1	Container	N/A	The forwarding agent is the company or person acting as agent in the transshipping of freight to the destination country.	Applicable for SED form only.			N/A	N/A	N/A	Opt	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CompanyName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/CompanyName	*Yes	1	String	1-35	Company Name or the Individual name of the Forwarding agent.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
TaxIdentificationNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/TaxIdentificationNumber	*Yes	1	String	1- 15	Tax ID of the Forwarding agent.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 5b	N/A
Address	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address	*Yes	1	Container	N/A	Address information of the Forwarding agent.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
AddressLine1	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/AddressLine1	*Yes	1	String	1-35	Address line 1 of the Forwarding agent.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
AddressLine2	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/AddressLine2	No	1	String	1-35	Address line 2 of the Forwarding agent. Usually Room/Floor information	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 5a	N/A
AddressLine3	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/AddressLine3	No	1	String	1-35	Address line 3 of the Forwarding agent. Usually department information	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 5	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
City	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/City	*Yes	1	String	1-30	City of the Forwarding agent.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
StateProvinceCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/StateProvinceCode	Cond	1	String	1-5	State of the Forwarding agent.	Applicable for SED form only. Required for certain countries.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
PostalCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/PostalCode	Cond	1	String	1-9	Postal code of the Forwarding agent.	Applicable for SED form only. Required for certain countries. The length of the postal code depends on the country code.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
CountryCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/ForwardAgent/Address/CountryCode	*Yes	1	String	2	Country code of the Forwarding agent.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 5a	N/A
UltimateConsignee	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee	Cond	1	Container	N/A	The ultimate consignee is the person or company who receives the goods for end-use or the person or company listed on the export license. This is the end-user of the goods.	Applicable for SED form only. Required when the form requested is SED.			N/A	N/A	N/A	Req Sec 4a	N/A
CompanyName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/CompanyName	*Yes	1	String	1-35	Company Name or the Individual name of the Ultimate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Req Sec	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Address	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address	*Yes	1	Container	N/A	Address information of the Ultimate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Req Sec 4a	N/A
AddressLine1	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/AddressLine1	*Yes	1	String	1-35	Address line 1 of the Ultimate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Req Sec 4a	N/A
AddressLine2	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/AddressLine2	No	1	String	1-35	Address line 2 of the Ultimate consignee. Usually Room/Floor information	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 4a	N/A
AddressLine3	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/AddressLine3	No	1	String	1-35	Address line 3 of the Ultimate consignee. Usually department information	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 4a	N/A
City	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/City	*Yes	1	String	1-30	City of the Ultimate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 4a	N/A
StateProvince Code	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/StateProvinceCode	Cond	1	String	1-5	State of the Ultimate consignee.	Applicable for SED form only. Required for certain countries			N/A	N/A	N/A	Req Sec 4a	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
PostalCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/PostalCode	Cond	1	String	1-9	Postal code of the Ultimate consignee.	Applicable for SED form only. Required for certain countries. The length of the postal code depends on the country code.			N/A	N/A	N/A	Req Sec 4a	N/A
CountryCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/UltimateConsignee/Address/CountryCode	*Yes	1	String	2	Country code of the Ultimate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Req Sec 4a	N/A
IntermediateConsignee	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee	No	1	Container	N/A	The intermediate consignee is the person or company in the importing country that makes final delivery to the ultimate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 4b	N/A
CompanyName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/CompanyName	*Yes	1	String	1-35	Company Name or the Individual name of the Intermediate consignee.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 4b	N/A
Address	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address	*Yes	1	Container	N/A	Address information of the Intermediate Consignee.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 4b	N/A
AddressLine1	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/AddressLine1	*Yes	1	String	1-35	Address line 1 of the Intermediate Consignee.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 4b	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine2	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/AddressLine2	No	1	String	1-35	Address line 2 of the Intermediate Consignee. Usually Room/Floor information	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 4b	N/A
AddressLine3	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/AddressLine3	No	1	String	1-35	Address line 3 of the Intermediate Consignee. Usually department information	Applicable for SED form only.			N/A	N/A	N/A	Opt Sec 4b	N/A
City	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/City	*Yes	1	String	1-30	City of the Intermediate Consignee.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 4b	N/A
StateProvinceCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/StateProvinceCode	Cond	1	String	1-5	State of the Intermediate Consignee.	Applicable for SED form only. Required for certain countries.			N/A	N/A	N/A	Cond Req Sec 4b	N/A
PostalCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/PostalCode	Cond	1	String	1-9	Postal code of the Intermediate Consignee.	Applicable for SED form only. Required for certain countries. The length of the postal code depends on the country code.			N/A	N/A	N/A	Cond Req Sec 4b	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CountryCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/IntermediateConsignee/Address/CountryCode	*Yes	1	String	2	Country code of the Intermediate Consignee.	Applicable for SED form only.			N/A	N/A	N/A	Cond Req Sec 4b	N/A
Producer	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer	Cond	1	Container	N/A	Information of the producer. The NAFTA Certificate of Origin must be completed, signed, and dated by the exporter. When the Certificate is completed by the producer for use by the exporter, it must be completed, signed, and dated by the producer. The date must be the date the Certificate was completed and signed.	Applies to NAFTA CO Required for NAFTA CO forms			N/A	N/A	N/A	N/A	N/A
Option	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Option	No	1	String	2	The text associated with the code will be printed in the producer section instead of producer contact information. Use attached List if more than one producers good is included on the Certificate, attach a list of additional producers, including the legal name, address (including country), and legal tax identification number, cross-referenced to the goods described in the Description of Goods field.	Applies to NAFTA CO. Possible Values are: 01: AVAILABLE TO CUSTOMS UPON REQUEST 02: SAME AS EXPORTER 03: ATTACHED LIST 04: UNKNOWN			N/A	N/A	N/A	N/A	N/A
CompanyName	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/CompanyName	Cond	1	String	1-35	Company Name or the Individual name of the Producer.	Applies to NAFTA CO Only applicable when producer option is empty or not present. Conditionally required for: NAFTA CO, when Producer option is not specified.			N/A	N/A	N/A	N/A	N/A
TaxIdentificationNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/TaxIdentificationNumber	No	1	String	1-15	Tax ID of the Producer.	Applies to NAFTA CO Only applicable when producer option is empty or not present			N/A	N/A	N/A	N/A	N/A
Address	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address	Cond	1	Container	N/A	Address information of the Producer.	Applies to NAFTA CO Only applicable if producer option is empty or not present. Conditionally required for: NAFTA CO, when Producer option is not specified.			N/A	N/A	N/A	N/A	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
AddressLine1	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/AddressLine1	*Yes	1	String	1-35	Address line 1 of the Producer.	Applies to NAFTA CO			N/A	N/A	N/A	N/A	N/A
AddressLine2	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/AddressLine2	No	1	String	1-35	Address line 2 of the Producer. Usually Room/Floor information	Applies to NAFTA CO			N/A	N/A	N/A	N/A	N/A
Addr essLine3	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/AddressLine3	No	1	String	1-35	Address line 3 of the Producer. Usually department information	Applies to NAFTA CO			N/A	N/A	N/A	N/A	N/A
City	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/City	*Yes	1	String	1-30	City of the Producer.	Applies to NAFTA CO Conditionally required for: NAFTA CO, when Producer option is not specified.			N/A	N/A	N/A	N/A	N/A
StateProvince Code	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/StateProvinceCode	Cond	1	String	1-5	State of the Producer.	Applies to NAFTA CO. Required for certain countries			N/A	N/A	N/A	N/A	N/A
PostalCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/PostalCode	Cond	1	String	1-9	Postal code of the Producer.	Applies to NAFTA CO Required for certain countries The length of the postal code depends on the country code.			N/A	N/A	N/A	N/A	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CountryCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Contacts/Producer/Address/CountryCode	*Yes	1	String	1-2	Country code of the Producer.	Applies to NAFTA CO			N/A	N/A	N/A	N/A	N/A
Product	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product	*Yes	Many (up to 50)	Container	N/A	Contains the commodity/ product information	Applies to SED, Invoice, Partial Invoice, CO and NAFTA CO. When any International form is requested Product must be present at least once but no more than 50. Note: For Partial Invoice this container is optional.			Req	Req	Req	Req	Opt
Description	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Description	*Yes	Many (up to 3)	String	1-35	Description of the product.	Applies to all International Forms. Optional for Partial Invoice. Must be present at least once and can occur for a maximum of 3 times			Req	Req	Req	Req	Opt
Unit	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit	Cond	1	Container	N/A	Container tag for the unit's information of each product. (also called as commodity)	Required for Invoice forms and optional for Partial Invoice.			N/A	N/A	N/A	N/A	Opt
Number	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/Number	*Yes	1	String	1-7	Total quantity of each commodity to be shipped, measured in the units specified in the Unit of Measure field	Required for Invoice forms and optional for Partial Invoice. Must be numeric. Valid characters are 0-9.			N/A	N/A	N/A	N/A	Opt

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Value	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/Value	*Yes	1	String	1-12	Monetary amount used to specify the worth or price of the commodity. Amount should be greater than zero	Applies to Invoice and Partial Invoice form. Required for Invoice forms and Partial Invoice forms. Amount should be greater than zero. Valid characters are 0-9 and .(Decimal point). Limit to 6 digits after the decimal. The maximum length of the field is 12 including . and can hold up to 6 decimal places.(#####.######, ######.#####, #######.####, ########.###, #########.##,##########.#,########### ##)The value of this product and the other products should be such that the invoice line total which is the sum of (number*values) of all products should not exceed 9999999999999999.99			N/A	N/A	N/A	N/A	Opt
UnitOfMeasurement	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/UnitOfMeasurement	*Yes	1	Container	N/A	Container tag for the Unit of measurement for the commodity.	Required for Invoice forms and optional for Partial Invoice.			N/A	N/A	N/A	N/A	Opt
Code	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/UnitOfMeasurement/Code	*Yes	1	String	1- 3	Code for the Unit of measurement of the commodity units.	Applies to Invoice and partial invoice forms and is required. Valid entries are: BA = Barrel, BE = Bundle, BG = Bag, BH = Bunch, BOX = Box, BT = Bolt, BU = Butt, CI = Canister, CM = Centimeter, CON = Container , CR = Crate, CS = Case, CT = Carton, CY = Cylinder, DOZ = Dozen, EA = Each, EN = Envelope, FT = Feet, KG = Kilogram, KGS = Kilograms, LB = Pound, LBS = Pounds, L = Liter, M = Meter, NMB = Number, PA = Packet, PAL = Pallet, PC = Piece, PCS = Pieces, PF = Proof Liters, PKG = Package , PR = Pair, PRS = Pairs, RL = Roll, SET = Set, SME = Square Meters, SYD = Square Yards, TU = Tube, YD = Yard, OTH = Other.			N/A	N/A	N/A	N/A	Opt
Description	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/UnitOfMeasurement/Description	Cond	1	String	1..3	The Unit of Measure if OTH (Other) is entered as the UnitOfMeasurement code.	Applies to Invoice and Partial Invoice forms. Conditionally Required for the Invoice and Partial Invoice form if OTH is entered as the units UnitOfMeasurement code			N/A	N/A	N/A	N/A	Cond Req Sec 5b

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CommodityCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/CommodityCode	Cond	1	String	6-15	6-to-15-alphanumeric commodity code. Customs uses this code to determine what duties should be assessed on the commodity.	Applies to Invoice, Partial Invoice and NAFTA CO. Required for NAFTA CO and optional for Partial Invoice. Should be at least 6 alphanumeric. For NAFTA CO: For each good described in Description of Goods field, identify the H.S. tariff classification to six digits. If the good is subject to a specific rule of origin in Annex 401 that requires eight digits, identify to eight digits, using the H.S. tariff classification of the country into whose territory the good is imported.			N/A	N/A	N/A	N/A	Opt
PartNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/PartNumber	No	1	String	1-10	The part number or reference number for the product contained in the invoice line, as indicated on the customs invoice.	Applies to Invoice and Partial Invoice.			N/A	N/A	N/A	N/A	Opt
OriginCountryCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/OriginCountryCode	Cond	1	String	2	The country in which the good was manufactured, produced, or grown. For detailed information on country of origin, certificate of origin, rules of origin, and any related matters, please refer to the U.S. Customs and Border Protection Web site at www.customs.gov or contact your country's Customs authority.	Applies to Invoice, Partial Invoice, CO and NAFTA CO. Required for Invoice and CO forms. Optional for Partial Invoice. Conditionally required for NAFTA CO if JointProductionIndicator is not present. Do not put in developers guide : For NAFTA CO, identify the name of the country (MX or US for agricultural and textile goods exported to Canada; US or CA for all goods exported to Mexico; or CA or MX for all goods exported to the United States) to which the preferential rate of customs duty applies, as set out in Annex 302.2, in accordance with the Marking Rules or in each party's schedule of tariff elimination. For all other originating goods exported to Canada, indicate appropriately MX or US if the goods originate in that NAFTA country, within the meaning of the NAFTA Rules of Origin Regulations, and any subsequent processing in the other NAFTA country does not increase the transaction value of the goods by more than seven percent; otherwise use the JointProductionIndicator for joint production.			Req	Req	Req	N/A	Opt

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
JointProductionIndicator	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/JointProductionIndicator	No	1	EMPTY		If present, JNT will be used as the origin of country code on the NAFTA form and the Product/OriginCountryCode tag will be ignored.	Applies to NAFTA CO only			N/A	N/A	N/A	N/A	N/A
NetCostCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/NetCostCode	Cond	1	String	2	For each good described in the Description of Goods field, where the good is subject to a regional value content (RVC) requirement, indicate NC if the RVC is calculated according to the net cost method; otherwise, indicate NO.	Applies to NAFTA CO only. Required for NAFTA CO. Possible Values: NCNO			N/A	N/A	N/A	N/A	N/A
NetCostDateRange	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/NetCostDateRange	No	1	Container	N/A	Date Range for regional value content (RVC)	Applies to NAFTA CO only.			N/A	N/A	N/A	N/A	N/A
BeginDate	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/NetCostDateRange/BeginDate	*Yes	1	String	8	If the RVC is calculated over a period of time, it should be identified by the begin date (YYYYMMDD) of that period. (Reference: Articles 402.1, 402.5).	Applies to NAFTA CO only. Format is YYYYMMDD			N/A	N/A	N/A	N/A	N/A
EndDate	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/NetCostDateRange/EndDate	*Yes	1	String	8	If the RVC is calculated over a period of time, it should be identified by the End date (YYYYMMDD) of that period. (Reference: Articles 402.1, 402.5).	Applies to NAFTA CO only. Format is YYYYMMDD			N/A	N/A	N/A	N/A	N/A
PreferenceCriteria	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/PreferenceCriteria	Cond	1	String	1	Indicates the criterion (A through F) for each good described in the Description of Goods field if applicable. Do not put in developers guide: The rules of origin are contained in Chapter Four and Annex 401. Additional rules are described in Annex 703.2 (certain agricultural goods), Annex 300-B, Appendix 6 (certain textile goods) and Annex 308.1 (certain automatic data processing goods and their parts).	Applicable for NAFTA CO and is required. Possible Values: ABCDEF. See Table IF1 for description of these values.			N/A	N/A	N/A	N/A	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ProducerInfo	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ProducerInfo	Cond	1	String	3 or 5	Indicate the following: Yes - If shipper is the producer of the good. If not, state 02, 03, and 04 depending on whether this certificate was based upon: No[1] - Knowledge of whether the good qualifies as an originating good. No[2] - Reliance on the producers written representation (other than a Certificate of Origin) that the good qualifies as an originating good. No[3] - A completed and signed Certificate for the good voluntarily provided to the exporter by the producer.	Applicable for NAFTA CO and is required. Possible Values: Yes/No[1] No[2] No[3]			N/A	N/A	N/A	N/A	N/A
MarksAndNumbers	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/MarksAndNumbers	No	1	String	1-35	Any special marks, codes, and numbers that may appear on package	Applies to CO Only			Opt Sec 2a	Opt Sec 2a	Opt Sec 2a	N/A	N/A
NumberOfPackagesPerCommodity	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/NumberOfPackagesPerCommodity	Cond	1	String	1-3	The total number of packages, cartons, or containers for the commodity	Applicable for CO and is required. Should be numeric. Valid characters are 0 -9.			Req Sec 2b	Req Sec 2b	Req Sec 2b	N/A	N/A
ProductWeight	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ProductWeight	Cond	1	Container	N/A	The shipping weight, including containers, for each commodity with a separate Harmonized Tariff Code / Schedule B Number. This weight does not include carrier equipment.	Applies to CO and SED forms only. Required for CO and SED forms.			Req Sec 2c	Req Sec 2c	Req Sec 2c	Req Sec 24	N/A
UnitOfMeasurement	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ProductWeight/UnitOfMeasurement	*Yes	1	Container	N/A	Container tag for the Unit of Measurement of weight	Applies to CO and SED forms only			Req Sec 2c	Req Sec 2c	Req Sec 2c	Req Sec 24	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Code	/ShipmentConfirmRequest /Shipment/Shipment ServiceOptions/Inter nationalForms/Prod uct/ProductWeight/ UnitOfMeasurement /Code	*Yes	1	String	3	Code for unit of Measurement of weight	Applies to CO and SED forms only. Possible values :KGS / LBS			Req Sec 2c	Req Sec 2c	Req Sec 2c	Req Sec 24	N/A
Description	/ShipmentConfirmR equest/Shipment/Sh ipmentServiceOptio ns/InternationalFor ms/Product/Product Weight/UnitOfMeas urement/Description	Yes	1	String						Req Sec 2c	Req Sec 2c	Req Sec 2c	Req Sec 24	N/A
Weight	/ShipmentConfirmR equest/Shipment/Sh ipmentServiceOptio ns/InternationalFor ms/Product/Product Weight/Weight	*Yes	1	String	1-5	Weight	Applies to CO and SED forms only. Valid characters are 0-9 and .(Decimal point). Limit to 1 digit after the decimal. The maximum length of the field is 5 including . and can hold up to 1 decimal place.			Req Sec 2c	Req Sec 2c	Req Sec 2c	Req Sec 24	N/A
VehicleID	/ShipmentConfirmR equest/Shipment/Sh ipmentServic eOptions/Internation alForms/Product/Ve hicleID	No	1	String	1-25	Includes the following information for used self-propelled vehicles as defined in Customs regulations 19 CFR 192.1: The unique Vehicle Identification Number (VIN) in the proper format. Or The Product Identification Number (PIN) for those used self propelled vehicles for which there are no VINs. Or no Vehicle Title Number.	Applies to SED forms only			N/A	N/A	N/A	Opt Sec 25	N/A
ScheduleB	/ShipmentConfirmR equest/Shipment/Sh ipmentServiceOptio ns/InternationalFor ms/Product/Schedul eB	Cond	1	Container	N/A	Container tag for the schedule B information of a commodity	Applies to SED forms only. Required for SED form			N/A	N/A	N/A	Req Sec 22	N/A
Number	/ShipmentConfirmR equest/Shipment/Sh ipmentServiceOptio ns/InternationalFor ms/Product/Schedul eB/Number	*Yes	1	String	10	A unique 10-digit commodity classification code for the item being exported. (To classify a commodity access the following Web page: http://www.census.gov/foreign-trade/schedules/b/#search).	Applies to SED forms only. Has to be 10 characters.			N/A	N/A	N/A	Req Sec 22	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Quantity	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ScheduleB/Quantity	Cond	1	String	1-10	The count of how many Schedule B units of the current good are in the shipment (SED only).For example, if the Schedule B unit of measure is dozens and eight dozen, is being shipped, indicate 8 in this field.	Applies to SED forms only. Conditionally required for SED forms if ScheduleB UnitOfMeasurement is not X. Should be Numeric. Valid characters are 0 -9.			N/A	N/A	N/A	Cond Req Sec 23	N/A
UnitOfMeasurement	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ScheduleB/UnitOfMeasurement	*Yes	1	Container	N/A	The unit of measure indicated on the Export License.	Applies to SED forms only.			N/A	N/A	N/A	Req Sec 23?	N/A
Code	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ScheduleB/UnitOfMeasurement/Code	*Yes	1	String	1..3	The unit of measure indicated on th e Export License. Enter an X if there is no unit of measure in the Schedule B Unit field.	Applies to SED forms only. Required for the SED form. Possible Values: BBL: Barrels, CAR: Carat, CKG: Content Kilogram, CM2: Square Centimeters, CTN: Content Ton, CUR: Curie, CYK: Clean Yield Kilogram, DOZ: Dozen, DPC: Dozen Pieces, DPR: Dozen Pairs, FBM: Fiber Meter, GCN: Gross Containers, GM: Gram, GRS: Gross, HUN: Hundred, KG: Kilogram, KM3: 1,000 Cubic Meters, KTS: Kilogram Total Sugars, L: Liter, M: Meter, M2: Square Meters, M3: Cubic Meters, MC: Millicurie, NO: Number, PCS: Pieces, PFL: Proof Liter, PK: Pack, PRS: Pairs, RBA: Running Bales, SQ: Square, T: Ton, THS: 1,000, X: No Quantity required.			N/A	N/A	N/A	Req Sec 23?	N/A
Description	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ScheduleB/UnitOfMeasurement/Description	Yes	1	String						N/A	N/A	N/A	Req Sec 23?	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ExportType	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/ExportType	Cond	1	String	1	Code indicating Domestic: Exports that have been produced, manufactured, or grown in the United States or Puerto Rico. This includes imported merchandise which has been enhanced in value or changed from the form in which imported by further manufacture or processing in the United States or Puerto Rico. Foreign: Merchandise that has entered the United States and is being exported again in the same condition as when imported. Foreign Military: Exported merchandise that is sold under the foreign military sales program.	Applies to SED forms only. Required for SED form. Possible Values: D: Domestic F: Foreign M: Foreign Military			N/A	N/A	N/A	Req Sec 21	N/A
SEDTotalValue	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/SEDTotalValue	Cond	1	String	1-15	The value of the S.E.D. commodity contained on the S.E.D. This amount will always be USD.	Applies to SED forms only. Required for SED form. Valid characters are 0-9 and .(Decimal point). Limit to 2 digit after the decimal. The maximum length of the field is 15 including . and can hold up to 2 decimal places. Note: This value is calculated based on the Product/Unit/Value and /Product/Unit/Number (Number of Units * Price per Unit). If the total value is incorrect it will be replaced by the actual calculated total value.			N/A	N/A	N/A	Req Sec 26	N/A
InvoiceNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/InvoiceNumber	No	1	String	1-35	Commercial Invoice number assigned by the exporter	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	Opt Sec 3
InvoiceDate	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/InvoiceDate	Cond	1	String	8	Date when the Invoice is created. Ideally this is the same as the ship date.	Applies to Invoice and Partial Invoice forms only. Optional for Partial Invoice. Required for Invoice form for forward shipments. For shipment with return service, the user input will be ignored, and the field will be blank on the invoice. Format is YYYYMMDD			N/A	N/A	N/A	N/A	Opt Sec 3
PurchaseOrderNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/PurchaseOrderNumber	No	1	String	1-35	The customers order reference number	Applies to Invoice and Partial Invoice forms			N/A	N/A	N/A	N/A	Opt Sec 3

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
TermsOfShipment	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/TermsOfShipment	No	1	String	3	Indicates the rights to the seller from the buyer.	Applies to Invoice and Partial Invoice forms only. Possible values are: CFR: Cost and Freight CIF: Cost, Insurance and Freight CIP: Carriage and Insurance Paid CPT: Carriage Paid To DAF: Delivered at Frontier DDP: Delivery Duty Paid DDU: Delivery Duty Unpaid DEQ: Delivered Ex Quay DES: Delivered Ex Ship EXW: Ex Works FAS: Free Alongside Ship FCA: Free Carrier FOB: Free On Board			N/A	N/A	N/A	N/A	Opt Sec 3
ReasonForExport	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/ReasonForExport	Cond	1	String	1-20	reason to export the current international shipment. Possible values: SALE,GIFT,SAMPLE, RETURN, REPAIR, INTERCOMPANYDATA, Any other reason	Applies to Invoice and Partial Invoice forms. Required for Invoice and Optional for Partial Invoice. No validation			N/A	N/A	N/A	N/A	O Sec 3
Comments	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Comments	No	1	String	1-150	Any extra information about the current shipment	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	Opt Sec 6
DeclarationStatement	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/DeclarationStatement	No	1	String	1-250	This is the legal explanation, used by Customs, for the delivering of this shipment. It must be identical to the set of declarations actually used by Customs. Examples of declarations that might be entered in this field are: I hereby certify that the goods covered by this shipment qualify as originating goods for purposes of preferential tariff treatment under the NAFTA.I hereby certify that the information on this invoice is true and correct and the contents and value of this shipment is as stated above. EEA statement: The exporter of the products covered by this document declares that except where otherwise clearly indicated these products are of EEA preferential origin.	Applies to Invoice and Partial Invoice forms only. On the invoice for return shipment, the verbiage is as follows (user input is ignored): The exporter of the products covered by this document declares that except where otherwise clearly indicated these products are of EEA preferential origin			N/A	N/A	N/A	N/A	Opt Sec 7
Discount	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Discount	No	1	Container	N/A	Container tag that holds the discount.	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	Opt Sec 8b

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
MonetaryValue	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Discount/MonetaryValue	*Yes	1	String	15	The discount to be subtracted from the sum of the total value on the invoice.	Applies to Invoice and Partial Invoice forms only. Valid characters are 0-9 and .(Decimal point). Limit to 2 digit after the decimal. The maximum length of the field is 15 including . and can hold up to 2 decimal places. This value should be greater than or equal to zero or less than or equal to the value of all goods listed on the invoice.			N/A	N/A	N/A	N/A	Opt Sec 8b
FreightCharges	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/FreightCharges	No	1	Container	N/A	Container tag that holds the Freight Charges	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	O Sec 8d
MonetaryValue	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/FreightCharges/MonetaryValue	*Yes	1	String	0-15	Cost to transport the shipment	Applies to Invoice and Partial Invoice forms only. Valid characters are 0-9 and .(Decimal point). Limit to 2 digit after the decimal. The maximum length of the field is 15 including . and can hold up to 2 decimal places.			N/A	N/A	N/A	N/A	Opt Sec 8d
InsuranceCharges	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/InsuranceCharges	No	1	Container	N/A	Container tag that holds the Insurance Charges	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	Opt Sec 8e
MonetaryValue	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/InsuranceCharges/MonetaryValue	*Yes	1	String	0-15	The amount the shipper or receiver pays to cover the cost of replacing the shipment if it is lost or damaged	Applies to Invoice and Partial Invoice forms only. Valid characters are 0-9 and .(Decimal point). Limit to 2 digit after the decimal. The maximum length of the field is 15 including . and can hold up to 2 decimal places.			N/A	N/A	N/A	N/A	Opt Sec 8e
OtherCharges	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/OtherCharges	No	1	Container	N/A	Container tag that holds the information of amount that covers additional charges not already listed on the invoice	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	Opt Sec 8f
MonetaryValue	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/OtherCharges/MonetaryValue	*Yes	1	String	0-15	The Monetary value of OtherCharges	Applies to Invoice and Partial Invoice forms only. Valid characters are 0-9 and .(Decimal point). Limit to 2 digit after the decimal. The maximum length of the field is 15 including . and can hold up to 2 decimal places.			N/A	N/A	N/A	N/A	Opt Sec 8f

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Description	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/OtherCharges/Description	*Yes	1	String	1-10	Description of what the other charges are for.	Applies to Invoice and Partial Invoice forms only.			N/A	N/A	N/A	N/A	Opt Sec 8f?
CurrencyCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/CurrencyCode	Cond	1	String	3	Currency code for all the monetary values of the Invoice form	Applies to Invoice and Partial Invoice forms2 only.			N/A	N/A	N/A	N/A	O Sec 8g
BlanketPeriod	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/BlanketPeriod	Cond	1	Container	N/A	This field should be entered if the NAFTA Certificate covers multiple shipments of identical goods as described in the Description of Goods field that are imported into a NAFTA country for a specified period of up to one year (the blanket period). The importation of a good for which preferential treatment is claimed based on this certificate must occur between these dates.	Applies to NAFTA CO form only. Required for NAFTA CO.			N/A	N/A	N/A	N/A	N/A
BeginDate	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/BlanketPeriod/BeginDate	*Yes	1	String	8	Begin date of the blanket period. It is the date upon which the Certificate becomes applicable to the good covered by the blanket Certificate (it may be prior to the date of signing this Certificate).	Applies to NAFTA CO form only. Required for NAFTA CO. Format is YYYYMMDD			N/A	N/A	N/A	N/A	N/A
EndDate	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/BlanketPeriod/EndDate	*Yes	1	String	8	End Date of the blanket period. It is the date upon which the blanket period expires.	Applies to NAFTA CO form only. Required for NAFTA CO. Format is YYYYMMDD			N/A	N/A	N/A	N/A	N/A
ExportDate	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/ExportDate	Cond	1	String	8	The date the goods will be exiting the country	Applies to CO and SED forms only. Required for CO and SED forms. Format is YYYYMMDD			Req Sec 1c	Req Sec 1c	Req Sec 1c	Req Sec 2	N/A
ExportingCarrier	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/ExportingCarrier	Cond	1	String	1-35	The name of the carrier that is exporting the shipment. The vessels flag number should also be entered, if the carrier is a vessel.	Applies to CO and SED forms only. Required for CO and SED forms.			Req Sec 1c?	Req Sec 1c?	Req Sec 1c?	Req Sec 10	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
CarrierID	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/CarrierID	No	1	String	1-17	The four-character Standard Carrier Alpha Code (SCAC) for vessel, rail, and truck shipments. For air shipment, enter the two or three character International Air Transport Association (IATA) code	Applies to SED forms only. No Validations.			N/A	N/A	N/A	Opt Sec 14	N/A
InBondCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/InBondCode	Cond	1	String	2	The two-character In Bond Code	Applies to SED forms only. Required for SED forms. Valid values are:70: Not in bond36: Warehouse withdrawal for IE37: Warehouse withdrawal for T and E62: T and E63: IE67: IE from a FTZ68: T and E from a FTZ			N/A	N/A	N/A	Req Sec 18	N/A
EntryNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/EntryNumber	Cond	1	String	1-25	The Import Entry Number when the export transaction is used as proof of export for import transactions (examples: In Bond, Temporary Import Bond or Drawbacks)	Applies to SED forms only. Conditionally Required for SED forms when In bond code value is other than 70(Not In Bond)			N/A	N/A	N/A	Cond Req Sec 16	N/A
PointOfOrigin	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/PointOfOrigin	Cond	1	String	1-5	Contains one of the following The two-digit U.S. Postal Service abbreviation for the state from which the goods were shipped to the port of export. The state that is the source for the good with the highest value. The state of consolidation. The Foreign Trade Zone number of the zone from where the exports are leaving. If the goods were shipped from Puerto Rico, enter PR.	Applies to SED forms only. Required for SED			N/A	N/A	N/A	Req Sec 6	N/A
ModeOfTransport	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/ModeOfTransport	Cond	1	String	1-35	Mode of transport by which the goods are exported. Possible values: Air, AirContainerized, Auto, FixedTransportInstallations, Mail, PassengerHandcarried, Pedestrian, Rail, RailContainerized, RoadOther, SeaBarge, SeaContainerized, SeaNoncontainerized, Truck, TruckContainerized.	Applies to SED forms only. Required for SED. Only allowed values can be entered. Only 10 Characters can appear on the form. Anything greater than 10 characters will be truncated on the form.			N/A	N/A	N/A	Req Sec 9	N/A
PortOfExport	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/PortOfExport	No	1	String	1-35	Should be one of the following- Overland: The U.S. Customs port where the carrier crosses the U.S. border. -Vessel and Air: The U.S. Customs port where the goods are loaded on the carrier to be exported from the U.S. -Postal: The U.S. Postal Office from where the goods are mailed	Applies to SED forms only. No validation.			N/A	N/A	N/A	Opt Sec 11	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
PortOfUnloading	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/PortOfUnloading	No	1	String	1-35	The country and the port where the goods will be unloaded from the exporting carrier. For vessel and air shipments only.	Applies to SED forms only No validation.			N/A	N/A	N/A	Opt Sec 12	N/A
LoadingPier	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/LoadingPier	No	1	String	1-35	Pier where goods are loaded. For vessel shipments only	Applies to SED forms only No validation.			N/A	N/A	N/A	Opt Sec 8	N/A
PartiesToTransaction	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/PartiesToTransaction	Cond	1	String	1	Information about parties to transaction. Use Related, if the parties to the transaction are related. A related party is an export from a U.S. businessperson or business to a foreign business or from a U.S. business to a foreign person or business where the person has at least 10 percent of the voting shares of the business during the fiscal year. If unincorporated, then an equivalent interest in the business.	Applies to SED forms only Valid values are: R – Related, N – Non-related.			N/A	N/A	N/A	Req Sec 1c	N/A
RoutedExportTransactionIndicator	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/RoutedExportTransactionIndicator	No	1	EMPTY		If Present, indicates that it is a routed export transaction. A routed export transaction is one, where the foreign principal party in interest authorizes a U.S. forwarding (or other) agent to export the merchandise outside the U.S.	Applies to SED forms only			N/A	N/A	N/A	O (R for GUI)Sec 19	N/A
ContainerizedIndicator	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/ContainerizedIndicator	No	1	EMPTY		If present indicates that the goods are containerized. This applies to vessel shipments only	Applies to SED forms only			N/A	N/A	N/A	Opt Sec 13	N/A
License	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/License	Cond	1	Container	N/A	Container for License information. If the product is not licensable, a valid license exception code needs to be entered. If shipping different products that are covered under different licenses or license excep tions, then separate SEDs must be created.	Applies to SED forms only Required for SED forms.			N/A	N/A	N/A	Cond Req Sec 27	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Number	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/License/Number	Cond	1	String	1-35	The license number that authorizes ship product.	Applies to SED forms only Either License number or License exception code should be present for SED form, both License number and License Exception code cannot be present for SED form.			N/A	N/A	N/A	Cond Req Sec 27	N/A
Date	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/License/Date	Cond	1	String	1-8	License Date	Applies to SED forms only Conditionally required for SED forms if there is a license number. Only applicable when License Number is provided. Format YYYYMMDD			N/A	N/A	N/A	Cond Req Sec 27	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ExceptionCode	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/License/ExceptionCode	Cond	1	String	1-4	License exception code Possible values AGR: Established for agricultural commodities to permit exports and re-exports to Cuba that is not specifically identified on the Commerce Control List (CCL) and is classified as EAR99. APR: Items for export or re-export not controlled for nuclear nonproliferation, missile technology or crime control. AVS: U.S. aircraft or foreign sojourn into foreign country. BAG: Individual or exporting carrier's crew member's baggage. CIV: National security items for civil end users. CTP: Computer and parts of. ENC: Encrypted software and hardware - financial institutions. GBS: Export or re-export of Country Group B; controlled for national security reasons. GFT: Gift shipments; packages to individuals, religious, charitable or education institutions, donations of basic needs. GOV: Government shipments, covers shipments for U.S. government agencies, personnel or of cooperating foreign governments. KMI: Encrypted software and hardware. LVS: Value of shipments limited. NLR: No license required. RPL: Servicing and replacement of parts and equipment, one for one replacement parts service or replacement of equipment. TMP: Temporary exports, export and re-export of items temporary in U.S., export and re-export of beta test software. TSPA: Software or technology outside the scope of export regulations. TSR: Technology and software, national security reason, Country Group B. TSU: Technology and software shipments, of basic requirements, data supporting prospective or actual bids, offers to sell, lease or supply an item. Software update for fixing programs, mass marketed software	Applies to SED forms only Either License number or License exception code should be present for SED form, both License number and License Exception code cannot be present for SED form. Validated for possible values			N/A	N/A	N/A	Cond Req Sec 27	N/A

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ECCNNumber	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/ECCNNumber	Cond	1	String	8	Export Control Classification Number. This number identifies categories, product groups, strategic level of control, and country groups. Some products have an ECCN number.	Applies to SED forms only ECCN is required one of the following License Exception Codes is entered: CIV CTP ENC KMI LVS			N/A	N/A	N/A	Cond Req Sec 28	N/A
ReturnOfDocumentIndicator	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/ReturnOfDocumentIndicator	No	1	String	0	Return of Documents Indicator If the flag is present, the shipper has requested the ReturnOfDocument accessorial be added to the shipment	Valid For Poland to Poland shipment without return service.	X						
DeliveryConfirmation	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/DeliveryConfirmation	No	1	Container	N/A		For a list of allowed origin/destination pairs please refer to Appendix B.	X						
DCISType	/ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/DeliveryConfirmation/DCISType	Yes	1	String	1	Type of delivery confirmation	Valid values are:1 - Delivery Confirmation Signature Required 2 - Delivery Confirmation Adult Signature Required	X						
Package	/ShipmentConfirmRequest/Shipment/Package	Yes	Many (up to 200)	Container	N/A	Package Information.	For Return Shipments up to and including 20 packages are allowed. US/PR origin return movements are limited to only one package.							
Description	/ShipmentConfirmRequest/Shipment/Package/Description	Cond	1	String	1..35	Merchandise description of package.	Required for shipment with return service							
PackagingType	/ShipmentConfirmRequest/Shipment/Package/PackagingType	No	1	Container	N/A									

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Code	/ShipmentConfirmRequest/Shipment/Package/PackagingType/Code	Yes	1	String	2	Package types. Values are: 01 = UPS Letter, 02 = Customer Supplied Package, 03 = Tube, 04 = PAK, 21 = UPS Express Box, 24 = UPS 25KG Box, 25 = UPS 10KG Box 30 = Pallet 2a = Small Express Box 2b = Medium Express Box 2c = Large Express Box	Package type 24, or 25 or 30 is only allowed for shipment without return service Packaging type must be valid for all the following: ShipTo country, ShipFrom country, a shipment going from ShipTo country to ShipFrom country, all accessorials at both the shipment and package level, and the shipment service type.							
Description	/ShipmentConfirmRequest/Shipment/Package/PackagingType/Description	No	1	String	1..35	Description of packaging type. Examples are letter, customer supplied, express box.								
Dimensions	/ShipmentConfirmRequest/Shipment/Package/Dimensions	Cond	1	Container	N/A	Dimensions information container.	Length + 2*(Width + Height) must be less than or equal to 130 IN or 330 CM. Dimensions are required for GB to GB and Poland to Poland Shipments.							
UnitOfMeasurement	/ShipmentConfirmRequest/Shipment/Package/Dimensions/UnitOfMeasurement	Yes	1	Container	N/A									
Code	/ShipmentConfirmRequest/Shipment/Package/Dimensions/UnitOfMeasurement/Code	Cond	1	String	2	Package dimensions measurement code. Codes are: IN = Inches, CM = Centimeters, 00 = Metric Units Of Measurement, 01 = English Units of Measurement. In Canada-origin shipments no defaulting is performed and a unit of measurement is required. For shipment with return service the unit of measure is defaulted to the shipper's country unit of measure. For all other shipments the unit of measurement will default to the unit of measurement for the origin country specified in the Country Information table.	The unit of measurement must be valid for the Shipper country.							
Description	/ShipmentConfirmRequest/Shipment/Package/Dimensions/UnitOfMeasurement/Description	No	1	String	1..35	Description of the package dimensions measurement units.								
Length	/ShipmentConfirmRequest/Shipment/Package/Dimensions/Length	Yes	1	String	9	Package length. Length must be the longest dimension of the container.	Valid values are 0 to 108 IN and 0 to 270 CM.							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Width	/ShipmentConfirmRequest/Shipment/Package/Dimensions/Width	Yes	1	String	9	Package width.								
Height	/ShipmentConfirmRequest/Shipment/Package/Dimensions/Height	Yes	1	String	9	Package height.								
PackageWeight	/ShipmentConfirmRequest/Shipment/Package/PackageWeight	Cond	1	Container	N/A									
UnitOfMeasurement	/ShipmentConfirmRequest/Shipment/Package/PackageWeight/UnitOfMeasurement	Yes*	1	Container	N/A									
Code	/ShipmentConfirmRequest/Shipment/Package/PackageWeight/UnitOfMeasurement/Code	Cond	1	String	3	Package weight unit of measurement code. Codes are: LBS = Pounds, KGS = Kilograms, 00 = Metric Unit of Measurements, 01 = English Unit of Measurements In Canada-origin shipments no defaulting is performed and a unit of measurement is required. For shipment with return service the unit of measure is defaulted to the shipper's country unit of measure. For all other shipments the unit of measurement will default to the unit of measurement for the origin country specified in the Country Information table.	Valid codes are: KGS, LBS, 00 and 01.							
Description	/ShipmentConfirmRequest/Shipment/Package/PackageWeight/UnitOfMeasurement/Description	No	1	String	1..35	Description of the package weight measurement units.								
Weight	/ShipmentConfirmRequest/Shipment/Package/PackageWeight/Weight	Yes	1	String	1..5	Packages weight.	Weight Accepted for letters/envelopes							

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
LargePackage Indicator	/ShipmentConfirmRequest/Shipment/Package/LargePackageIndicator	No	1	String	0	Presence of the indicator mentions that the package is Large Package.								
ReferenceNumber	/ShipmentConfirmRequest/Shipment/Package/ReferenceNumber	No	1	Container	N/A	Package reference number information container								
BarCodeIndicator	/ShipmentConfirmRequest/Shipment/Package/ReferenceNumber/BarCodeIndicator	No	1	String	0	If the indicator is present then the reference numbers value will be bar coded on the label.	Allowed for shipm ent with return service only . Only one shipment-level or package-level reference number can be bar coded per shipment. In order to barcode a reference number, its value must be no longer than 14 alphanumeric characters or 24 numeric characters and cannot contain spaces.	X						
Code	/ShipmentConfirmRequest/Shipment/Package/ReferenceNumber/Code	Yes	1	String	2	Reference number type code, for the entire shipment. The code specifies the Reference name.	Valid if the origin/destination pair is US/US or PR/PR.2 character alpha-numeric.							
Value	/ShipmentConfirmRequest/Shipment/Package/ReferenceNumber/Value	Yes	1	String	1..35	Customer supplied reference number.	Valid if the origin/destination pair is US/US or PR/PR. Supports up to 2 customer supplied combinations of Reference code-value combinations.							
AdditionalHandling	/ShipmentConfirmRequest/Shipment/Package/AdditionalHandling	No	1	String	0	Additional Handling Required. The presence indicates additional handling is required , the absence indicates no additional handling is required.								
PackageServiceOptions	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions	No	1	Container	N/A									
DeliveryConfirmation	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/DeliveryConfirmation	No	1	Container	N/A		For a list of allowed origin/destinations please refer to Appendix B.	X						

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
DCISType	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/DeliveryConfirmation/DCISType	Yes	1	String	1	Type of delivery confirmation	Valid values are: 1 - Delivery Confirmation 2 - Delivery Confirmation Signature Required 3 - Delivery Confirmation Adult Signature Required	X						
DCISNumber	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/DeliveryConfirmation/DCISNumber	No	1	String	1..11	Delivery Confirmation Control number associated with the delivery confirmation for the package		X						
InsuredValue	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/InsuredValue	No	1	Container	N/A									
Type	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/InsuredValue/Type	No	1	String	N/A	Container for Insured Value Type.	N/A	X						
Code	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/InsuredValue/Type/Code	*Yes	1	String	2	Declared value type. Valid values are 01=EVS 02=DVS Defaults to 01 i.e. EVS if declared value type is not provided.	The user cannot specify different type of declared value at package level for entire shipment. You can either have shipper declared value (DVS) or declared value (EVS) but not both at package level. Note: The Shipper DeclaredV alue is applicable for forward shipments when the billing option is freight collect or third party	X						
Description	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/InsuredValue/Type/Description	No	1	String	1-35	Declared value Description	N/A	X						
CurrencyCode	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/InsuredValue/CurrencyCode	No	1	String	3	Declared value amount currency type. Defaults to the currency used in the shippers country.	Code must represent a currency that is a valid for Shipper country.	X						

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
MonetaryValue	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/InsuredValue/MonetaryValue	No	1	String	1..19	Declared value amount.		✕						
COD	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/COD	No	1	Container	N/A	COD container	Indicates COD is requested. package level COD is available for shipment without return service from US/PR to US/PR, CA to CA, and CA to US.CA to US COD is not allowed for package Letter/ Envelope. COD is not valid for return service movements.	✕						
CODCode	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/COD/CODCode	Yes	1	String	1	COD type value. 3 = Tagless COD.	Valid values are 3.	✕						
CODFundsCode	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/COD/CODFundsCode	Yes	1	String		Values are: 0 = check, cashiers check or money order - no cash allowed, 8 = cashiers check or money order - no cash allowed.		✕						
CODAmount	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/COD/CODAmount	Yes*	1	Container	N/A									
CurrencyCode	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/COD/CODAmount/CurrencyCode	No	1	String	3	COD amount currency code type. Defaults to the currency used in the destination country.		✕						
MonetaryValue	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/COD/CODAmount/MonetaryValue	Yes	1	String	1..8	COD Amount.	Valid values: 0.01 USD - 50000.00 USD	✕						
VerbalConfirmation	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/VerbalConfirmation	No	1	Container	N/A	Verbal Confirmation Info.	Allowed for shipment without return service.	✕						

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
ContactInfo	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/VerbalConfirmation/ContactInfo	Cond	1	Container	N/A	Optional if the Shippers AttentionName, PhoneNumber, and PhoneExtension(optional) are given and are the desired name, phone number and extension, respectively, to be used for verbal confirmation.		X						
Name	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/VerbalConfirmation/ContactInfo/Name	Cond	1	String	1..35	Name of the person to be contacted for confirmation. Defaults to Shipper AttentionName if given.	Optional if Shipper/ AttentionName is given and that is the name of the person to be contacted else required for verbal confirmation.	X						
PhoneNumber	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/VerbalConfirmation/ContactInfo/PhoneNumber	Cond	1	String		Phone number UPS uses to reach the person to give the confirmation. Defaults to Shipper PhoneNumber if given.	Optional if Shipper/PhoneNumber is given and that is the name of the person to be contacted else required for verbal confirmation. If phone number is in the US 10 digits allowed, otherwise 1..15 digits allowed.	X						
ShipperReleaseIndicator	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/ShipperReleaseIndicator	No	1	String	0	The presence indicates that the package may be released by driver without a signature from the consignee	Only available for US50/PR to US50/PR packages without return service.	X						
Notification	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification	No	1	Container	N/A	Receiver Return Notification	Applicable for Shipment with returned service.		X					
NotificationCode	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/NotificationCode	Yes*	1	String	1		3 - Receiver Return Notification		X					
EMailMessage	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage	Yes*	1	Container	N/A	Container for the e-mail Message.			X					

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
EMailAddress	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/EMailAddress	Yes*	Many (up to 2)	String	1..50	The destination eMail address of the receiver return notification eMail.	The shipment can have up to two receiver return notification email address for the whole shipment.		X					
Undeliverable EMailAddress	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/UndeliverableEMailAddress	No	1	String	1..50	The e-mail address where an undeliverable eMail message is sent if the Receiver Return Notification email is undeliverable.	Defaults to FromEMailAddress. Only allowed at the first package.		X					
FromEMailAddress	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/FromEMailAddress	Yes	1	String	1..50	The email address listed in the Repl y To field of the message header, includes name and e-mail address of sender. The From field of the message header contains pkginfo@ups.com.	Only allowed at the first package.		X					
FromName	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/FromName	No	1	String	1..35	The name the receiver return notification will appear to be from.	Defaults to the ShipperName. Only allowed at the first package.		X					
Memo	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/Memo	No	1	String	1..150	User defined text that will be included in the eMail.	Only allowed at the first package.		X					
Subject	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/Subject		1	String										
SubjectCode	/ShipmentConfirmRequest/Shipment/Package/PackageServiceOptions/Notification/EMailMessage/SubjectCode		1	String										

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
LabelSpecification	/ShipmentConfirmRequest/LabelSpecification	Cond	1	Container	N/A	Container used to define the properties required by the user to print and/or display the UPS shipping label.	Required for shipment without return service, or shipment with PRL return service							
LabelPrintMethod	/ShipmentConfirmRequest/LabelSpecification/LabelPrintMethod	Yes	1	Container	N/A	The device used to print a label image.								
Code	/ShipmentConfirmRequest/LabelSpecification/LabelPrintMethod/Code	Yes	1	String	3	Label print method code that the labels are to be generated for EPL2 formatted labels use EPL, for SPL formatted labels use SPL, for ZPL formatted labels use ZPL, for STAR printer formatted labels use STARPL and for image for mats use GIF.	For shipments without return service the valid value is GIF, EPL, ZPL, STARPL and SPL. For shipments with PRL return service, the valid values are EPL, ZPL, STARPL, SPL and GIF.							
Description	/ShipmentConfirmRequest/LabelSpecification/LabelPrintMethod/Description	No	1	String	1..35	Label Specification Code description								
HTTPUserAgent	/ShipmentConfirmRequest/LabelSpecification/HTTPUserAgent	Cond	1	String	1..64	Browser HTTPUserAgent String. This is the preferred way of identifying GIF image type to be generated	Required if ShipmentConfirmRequest/LabelSpecification/LabelPrintMethod/Code = GIF. Default to Mozilla/4.5 if this field is missing or has invalid value.							
LabelStockSize	/ShipmentConfirmRequest/LabelSpecification/LabelStockSize	Cond	1	Container	N/A	Container for the EPL2, ZPL, STARPL or SPL label size	For EPL2, ZPL, STARPL and SPL labels.	✕						
Height	/ShipmentConfirmRequest/LabelSpecification/LabelStockSize/Height	Yes*	1	String	1..3	Height of the label image. For IN, use whole inches.	For EPL2, ZPL, STARPL and SPL labels. Only valid value is 4. Note: Label Image will only scale up to 4 X 6, even when requesting 4 X 8.	✕						
Width	/ShipmentConfirmRequest/LabelSpecification/LabelStockSize/Width	Yes*	1	String	1..3	Width of the label image. For IN, use whole inches.	For EPL2, ZPL, STARPL and SPL labels. Valid values are 6 or 8. Note: Label Image will only scale up to 4 X 6, even when requesting 4 X 8.	✕						
LabelImageFormat	/ShipmentConfirmRequest/LabelSpecification/LabelImageFormat	Yes	1	Container	N/A									

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules	Shipment Only	Return Only	CO	Nafta CO	Invoice	EEI	Partial IV
Code	/ShipmentConfirmRequest/LabelSpecification/LabelImageFormat/Code	Cond	1	String	3	Code type that the label image is to be generated in.	Required if ShipmentConfirmRequest/LabelSpecification/LabelPrintMethod/Code = GIF. Valid values are GIF or PNG. Only GIF is supported on the remote server.							
Description	/ShipmentConfirmRequest/LabelSpecification/LabelImageFormat/Description	No	1	String	1..35	Description of the label image format code.								

Ship Confirm Response

The ShipmentConfirmResponse message contains a single XML document that conforms to the following structure.

The "Required" Column has four potential values:

Yes: Always required

No: Always optional

Yes*: Conditionally required. The existence of this element is dependent on the existence of a higher level container. When the Container is present, this element MUST also be present.

Cond: Conditional. There are specific business rules for when this element should be present.

Each element is described with a Name, XPath, Required, Maximum Number of Elements Allowed, Type, Length, and Description.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ShipmentConfirmResponse	/ShipmentConfirmResponse	Cond	One	Container	N/A		
Response	/ShipmentConfirmResponse/Response	Yes	One	Container	N/A	ShipConfirm response	
TransactionReference	/ShipmentConfirmResponse/Response/TransactionReference	Yes	One	Container	N/A	TransactionReference identifies transactions between client and server.	
CustomerContext	/ShipmentConfirmResponse/Response/TransactionReference/CustomerContext		One	String		The client uses CustomerContext to synchronize request/response pairs. The client establishes CustomerContext, which can contain any information you want, as along as it is valid XML; it is echoed back by the server.	
ResponseStatusCode	/ShipmentConfirmResponse/Response/ResponseStatusCode	Yes	One	String		Identifies the success or failure of the transaction. 1 = Successful 0 = Failure	
ResponseStatusDescription	/ShipmentConfirmResponse/Response/ResponseStatusDescription	Yes	One	String		Describes Response Status Code. Returns text of Success or Failure	
Error	/ShipmentConfirmResponse/Response/Error	Yes	One	Container	N/A	If an error is encountered during the interchange, the Response contains an error. If the error is present, then the ErrorSeverity and ErrorCode are required.	
ErrorSeverity	/ShipmentConfirmResponse/Response/Error/ErrorSeverity	Yes	One	String		Describes the severity of the error. Transient Error - Customers data has not been processed due to system unavailability. The customer has to wait and try again. Hard Error - The error was encountered processing the customer's data and that the data needs correction. Warning - The customer's data was successfully processed; however, there were warnings encountered during processing.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ErrorCode	/ShipmentConfirmResponse/Response/Error/ErrorCode	Yes	One	String	1..15	A numeric value that describes the error. Each tool defines a range of error codes.	
ErrorDescription	/ShipmentConfirmResponse/Response/Error/ErrorDescription	Yes	One	String	1..50	Describes the error code.	
MinimumRetrySeconds	/ShipmentConfirmResponse/Response/Error/MinimumRetrySeconds	Yes	One	String	1..5	Number of seconds to wait until retry. This field is populated on special conditions of the Transient Error only, as defined by the service. A number between 1 and 86400 (24 hours)	
ErrorLocation	/ShipmentConfirmResponse/Response/Error/ErrorLocation	Yes	On e	Container	N/A	Identifies the element in error.	
ErrorLocationElementName	/ShipmentConfirmResponse/Response/Error/ErrorLocation/ErrorLocationElementName	Yes	One	String	1..512	The XPATH name of the element in error. This is a valid XPATH pointing to an element in the request document.	
ErrorLocationAttributeName	/ShipmentConfirmResponse/Response/Error/ErrorLocation/ErrorLocationAttributeName	Yes	One	String	1..50	The name of the attribute in error. This is the name of the attribute contained by the Error Location Element.	
ErrorDigest	/ShipmentConfirmResponse/Response/Error/ErrorDigest	Yes	One	String	Bound by the size of the Request data.	The contents of the element in error.	
ShipmentCharges	/ShipmentConfirmResponse/ShipmentCharges	Cond	One	Container	N/A	Shipment charges info. Shipment charges are only guaranteed to be returned for shipments whose origin country is US or Puerto Rico.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
TransportationCharges	/ShipmentConfirmResponse/ShipmentCharges/TransportationCharges	Yes	One	Container	N/A		
CurrencyCode	/ShipmentConfirmResponse/ShipmentCharges/TransportationCharges/CurrencyCode	Yes	One	String	3	Transportation charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentConfirmResponse/ShipmentCharges/TransportationCharges/MonetaryValue	Yes	One	String	1..19	Transportation and surcharges value amount.	Valid values are from 0 to 99999999999999.99
ServiceOptionsCharges	/ShipmentConfirmResponse/ShipmentCharges/ServiceOptionsCharges	Yes	One	Container	N/A		
CurrencyCode	/ShipmentConfirmResponse/ShipmentCharges/ServiceOptionsCharges/CurrencyCode	Yes	One	String	3	Service options charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentConfirmResponse/ShipmentCharges/ServiceOptionsCharges/MonetaryValue	Yes	One	String	1..19	Service options charges value amount	Valid values are from 0 to 99999999999999.99
TotalCharges	/ShipmentConfirmResponse/ShipmentCharges/TotalCharges	Yes one	One	Container	N/A		
CurrencyCode	/ShipmentConfirmResponse/ShipmentCharges/TotalCharges/CurrencyCode	Yes	One	String	3	Total charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentConfirmResponse/ShipmentCharges/TotalCharges/MonetaryValue	Yes	One	String	1..19	Total charges value amount.	Valid values are from 0 to 99999999999999.99
BillingWeight	/ShipmentConfirmResponse/BillingWeight	Yes	One	Container	N/A		

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
UnitOfMeasurement	/ShipmentConfirmResponse/BillingWeight/UnitOfMeasurement	Yes	One	Container	N/A		
Code	/ShipmentConfirmResponse/BillingWeight/UnitOfMeasurement/Code	Yes	One	String	2.3	Billing Weight unit of measurement code. The unit of measurement used in Shipment Confirm Request is returned.	
Description	/ShipmentConfirmResponse/BillingWeight/UnitOfMeasurement/Description	No	One	String	3	Description of the billing weight measurement units. Valid values are: KGS or LBS	
Weight	/ShipmentConfirmResponse/BillingWeight/Weight	Yes	One	String	8	Billing weight. Higher of the actual shipment weight versus the shipment dimensional weight.	Valid value up to 99999.99
ShipmentIdentificationNumber	/ShipmentConfirmResponse/ShipmentIdentificationNumber	Yes	One	String	18	Returned UPS shipment ID number.	1Z Number of the first package in the shipment.
ShipmentDigest	/ShipmentConfirmResponse/ShipmentDigest	Yes	One	Encoded	Variable length	Encoded shipment parameters required to be passed in the accept phase.	
NegotiatedRates	/ShipmentConfirmResponse/NegotiatedRates	No	One	Container	N/A		
NetSummaryCharges	/ShipmentConfirmResponse/NegotiatedRates/NetSummaryCharges	Cond	One	Container	N/A	Negotiated Rates info. Net Summary Charges are only returned for shipper account/UserId combinations qualified for Negotiated rates.	
GrandTotal	/ShipmentConfirmResponse/NegotiatedRates/NetSummaryCharges/GrandTotal	Cond	One	Container	N/A		
CurrencyCode	/ShipmentConfirmResponse/NegotiatedRates/NetSummaryCharges/GrandTotal /CurrencyCode	Yes	One	String	3	Net Summary charges currency code type.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
MonetaryValue	/ShipmentConfirmResponse/NegotiatedRates/NetSummaryCharges/GrandTotal/MonetaryValue	Yes	One	String	1..19	Net Summary charges monetary value.	Valid values are from 0 to 9999999999999999.99

Ship Accept Request

The ShipmentAcceptRequest message consists of two complete XML documents. The first document is an AccessRequest. The AccessRequest is immediately followed by a ShipmentAcceptRequest.

The "Required" Column has four potential values:

Yes: Always required

No: Always optional

Yes*: Conditionally required. The existence of this element is dependent on the existence of a higher level container. When the Container is present, this element MUST also be present.

Cond: Conditional. There are specific business rules for when this element should be present.

Each element is described with a Name, XPath, Required, Maximum Number of Elements Allowed, Type, Length, and Description.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
Request	/ShipmentAcceptRequest/ Request	Yes	One	Container	N/A	ShipAccept request	
RequestAction	/ShipmentAcceptRequest/ Request/RequestAction	Yes	One	String	10	Indicates the action to be taken by the XML service.	Must be ShipAccept.
TransactionReference	/ShipmentAcceptRequest/ Request/TransactionReference	No	One	Container	N/A	TransactionReference identifies transactions between client and server.	
CustomerContext	/ShipmentAcceptRequest/ Request/TransactionReference/CustomerContext	No	One	String	1..50	Customer context	
ShipmentDigest	/ShipmentAcceptRequest/ ShipmentDigest	Yes	One	String	Variable length	Encoded shipment parameters required to be passed in the accept phase.	

Ship Accept Response

The ShipmentAcceptResponse message contains a single XML document that conforms to the following structure in the table.

The "Required" Column has four potential values:

Yes: Always required

No: Always optional

Yes*: Conditionally required. The existence of this element is dependent on the existence of a higher level container. When the Container is present, this element MUST also be present.

Cond: Conditional. There are specific business rules for when this element should be present.

Each element is described with a Name, XPath, Required, Maximum Number of Elements Allowed, Type, Length, and Description.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ShipmentAcceptResponse	/ShipmentAcceptResponse	Yes	One	Container	N/A		
Response	/ShipmentAcceptResponse/Response	Yes	One	Container	N/A	ShipAccept response	
TransactionReference	/ShipmentAcceptResponse/Response/TransactionReference	Yes	One	Container	N/A		
CustomerContext	/ShipmentAcceptResponse/Response/TransactionReference/CustomerContext		One	String			
ResponseStatusCode	/ShipmentAcceptResponse/Response/ResponseStatusCode	Yes	One	String			
ResponseStatusDescription	/ShipmentAcceptResponse/Response/ResponseStatusDescription	Yes	One	String			
Error	/ShipmentAcceptResponse/Response/Error	Yes	One	Container	N/A	If an error is encountered during the interchange, the Response contains an error. If the error is present, then the ErrorSeverity and ErrorCode are required.	
ErrorSeverity	/ShipmentAcceptResponse/Response/Error/ErrorSeverity	Yes	One	String	1..15	Describes the severity of the error. Transient Error - Customers data has not been processed due to system unavailability. The customer has to wait and try again. Hard Error - The error was encountered processing the customer's data and that the data needs correction. Warning - The customer's data was successfully processed; however, there were warnings encountered during processing.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ErrorCode	/ShipmentAcceptRespons e/Response/Error/ErrorCo de	Yes	One	String	1..15	A numeric value that describes the error. Each tool defines a range of error codes.	
ErrorDescription	/ShipmentAcceptRespons e/Response/Error/ErrorDe scription	Yes	One	String	1..50	Describes the error code.	
MinimumRetrySec onds	/ShipmentAcceptRespons e/Response/Error/Minimu mRetrySeconds	Yes	One	String	1..5	Number of seconds to wait until retry. This field is populated on special conditions of the Transient Error only, as defined by the service. A number between 1 and 86400 (24 hours)	
ErrorLocation	/ShipmentAcceptRespons e/Response/Error/ErrorLo cation	Yes	One	Container	N/A	Identifies the element in error.	
ErrorLocationElem entName	/ShipmentAcceptRespons e/Response/Error/ErrorLo cation/ErrorLocationElem entName	Yes	One	String		The XPATH name of the element in error. This is a valid XPATH pointing to an element in the request document.	
ErrorLocationAttrib uteName	/ShipmentAcceptRespons e/Response/Error/ErrorLo cation/ErrorLocationAttrib uteName	Yes	One	String	1..50	The name of the attribute in error. This is the name of the attribute contained by the Error Location Element.	
ErrorDigest	/ShipmentAcceptRespons e/Response/Error/ErrorDi gest	Yes	One	String	Bound by the size of the Request data.	The contents of the element in error.	
ShipmentResults	/ShipmentAcceptRespons e/ShipmentResults	Yes	One	Container	N/A		

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ShipmentCharges	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges	Cond	One	Container	N/A	Shipment charges info. Shipment charges are only guaranteed to be returned for shipments whose origin country is US or Puerto Rico.	
TransportationCha rges	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/Transportatio nCharges	Yes	One	Container	N/A		
CurrencyCode	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/Transportatio nCharges/CurrencyCode	Yes	One	String	3	Transportation charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/Transportatio nCharges/MonetaryValue	Yes	One	String	1..19	Transportation and surcharges value amount.	Valid values are from 0 to 99999999999999.99
ServiceOptionsCh arges	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/ServiceOptio nsCharges	Yes	One	Container	N/A		
CurrencyCode	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/ServiceOptio nsCharges/CurrencyCode	Yes	One	String	3	Accessorial charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/ServiceOptio nsCharges/MonetaryValu e	Yes	One	String	1..19	Accessorial charges value amount.	Valid values are from 0 to 99999999999999.99
TotalCharges	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/TotalCharges	Yes	One	Container	N/A		
CurrencyCode	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/TotalCharges /CurrencyCode	Yes	One	String	3	Total charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentAcceptRespons e/ShipmentResults/Shipm entCharges/TotalCharges /MonetaryValue	Yes	One	String	1..19	Total charges value amount.	Valid values are from 0 to 99999999999999.99

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
NegotiatedRates	/ShipmentAcceptResponse/ShipmentResults/NegotiatedRates	Cond	One	Container	N/A		
NetSummaryCharges	/ShipmentAcceptResponse/ShipmentResults/NegotiatedRates/NetSummaryCharges	Cond	One	Container	N/A	Account Based Rates info. Net Summary Charges are only returned for ABR eligible shipper account/UserId combinations when the user includes the NegotiatedRates indicator in the ShipConfirm request.	
GrandTotal	/ShipmentAcceptResponse/ShipmentResults/NegotiatedRates/NetSummaryCharges/GrandTotal	Yes	One	Container	N/A		
CurrencyCode	/ShipmentAcceptResponse/ShipmentResults/NegotiatedRates/NetSummaryCharges/GrandTotal/CurrencyCode	*Yes	One	String	3	Net Summary charges currency code.	
MonetaryValue	/ShipmentAcceptResponse/ShipmentResults/NegotiatedRates/NetSummaryCharges/GrandTotal/MonetaryValue	*Yes	One	String	1..19	Net Summary charges monetary value.	Valid values are from 0 to 9999999999999999.99
BillingWeight	/ShipmentAcceptResponse/ShipmentResults/BillingWeight	Yes	One	Container	N/A		
UnitOfMeasurement	/ShipmentAcceptResponse/ShipmentResults/BillingWeight/UnitOfMeasurement	Yes	One	Container	N/A		
Code	/ShipmentAcceptResponse/ShipmentResults/BillingWeight/UnitOfMeasurement/Code	Yes	One	String	2..3	Billing weight unit of measurement code. The unit of measurement used in ShipmentConfirmRequest is returned.	
Description	/ShipmentAcceptResponse/ShipmentResults/BillingWeight/UnitOfMeasurement/Description	No	One	String	3	Description of the billing weight measurement units. Values are: KGS or LBS	
Weight	/ShipmentAcceptResponse/ShipmentResults/BillingWeight/Weight	Yes	One	String	8	Billing weight. Higher of the actual shipment weight versus the shipment dimensional weight.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ShipmentIdentificationNumber	/ShipmentAcceptResponse/ShipmentResults/ShipmentIdentificationNumber	Yes	One	String	18	Returned UPS shipment ID number.	1Z Number of the first package in the shipment.
ControlLogReceipt	/ShipmentAcceptResponse/ShipmentResults/ControlLogReceipt	Cond	One	Container	N/A	Container for the High Value reports	When forward shipments declared value between $999 and $50,000 USD. Two copies of high value report needs to be printed out.
ImageFormat	/ShipmentAcceptResponse/ShipmentResults/ControlLogReceipt/ImageFormat	Cond	One	Container	N/A	Container for the High Value report format, required if parent exist	
Code	/ShipmentAcceptResponse/ShipmentResults/ControlLogReceipt/ImageFormat/Code	Yes*	One	String	4	Code for the type of Graphic Image for the High Value Report.	Values are: EPL = EPL2 (when user requests label in EPL2 format) SPL = SPL (when user requests label in SPL format) ZPL = ZPL (when user requests label in ZPL format) HTML= HTML (when user requests label in HTML format)
Description	/ShipmentAcceptResponse/ShipmentResults/ControlLogReceipt/ImageFormat/Description	No	One	String	1..35	Description of the format code	
GraphicImage	/ShipmentAcceptResponse/ShipmentResults/ControlLogReceipt/GraphicImage	Yes*	One	Base 64 Encoded	Variable Length	Base 64 encoded html, EPL2, ZPL or SPL image	
PackageResults	/ShipmentAcceptResponse/ShipmentResults/PackageResults	No	Many (up to 200)	Container	N/A	Returned Package Information.	
TrackingNumber	/ShipmentAcceptResponse/ShipmentResults/PackageResults/TrackingNumber	Yes	One	String	18	Package 1Z number.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ServiceOptionsCharges	/ShipmentAcceptResponse/ShipmentResults/PackageResults/ServiceOptionsCharges	Cond	One	Container	N/A	Shipment charges info. Shipment charges are only guaranteed to be returned for shipments whose origin country is US or Puerto Rico.	
CurrencyCode	/ShipmentAcceptResponse/ShipmentResults/PackageResults/ServiceOptionsCharges/CurrencyCode	Yes	One	String	3	Package accessorial charges currency code type. The currency code used in the ShipmentConfirmRequest is returned.	
MonetaryValue	/ShipmentAcceptResponse/ShipmentResults/PackageResults/ServiceOptionsCharges/MonetaryValue	Yes	One	String	1..19	Package accessorial charges value amount.	Valid values are from 0 to 99999999999999.99
LabelImage	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage	Cond	One	Container	N/A	The container for UPS shipping label	Shipment without return service or with PRL return service.
LabelImageFormat	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/LabelImageFormat	Yes	One	Container	N/A		
Code	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/LabelImageFormat/Code	Yes	One	String	3	Label image code that the labels are generated. Values EPL = EPL2, SPL = SPL, ZPL = ZPL, GIF = gif images, or PNG for PNG images.	Only EPL, SPL, ZPL and GIF are currently supported.
Description	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/LabelImageFormat/Description	No	One	String	1..35	Description of the label image format code.	
GraphicImage	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/GraphicImage	Yes	One	Encoded	Variable Length	Base 64 encoded graphic image.	
InternationalSignatureGraphicImage	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/InternationalSignatureGraphicImage	Cond	One	Encoded	Variable Length	Base 64 encoded graphic image of the Warsaw text and signature box.	EPL2, ZPL and SPL labels. The image will be returned for non-US based shipments. One image will be given per shipment and it will be in the first PackageResults container.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
HTMLImage	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/HTMLImage	Cond	One	Encoded	Variable Length	Base 64 encoded html browser image rendering software.	This is only returned for gif and png image formats.
PDF417	/ShipmentAcceptResponse/ShipmentResults/PackageResults/LabelImage/PDF417	Cond	One	Encoded	Variable Length	PDF-417 is a two-dimensional barcode, which can store up to about 1,800 printable ASCII characters or 1,100 binary characters per symbol. The symbol is rectangular. The image is Base 64 encoded and returned if the LabelImageFormat code is GIF	Shipment with PRL return service only
Receipt	/ShipmentAcceptResponse/ShipmentResults/PackageResults/Receipt	Cond	One	Container	N/A	Container for the receipt and the receipt link.	Not supported for ERL or PRL shipments.
Image	/ShipmentAcceptResponse/ShipmentResults/PackageResults/Receipt/Image	Cond	One	Container	N/A	Container for the receipt of a return shipment	
ImageFormat	/ShipmentAcceptResponse/ShipmentResults/PackageResults/Receipt/Image/ImageFormat	Yes*	One	Container	N/A	Container for a receipt format	
Code	/ShipmentAcceptResponse/ShipmentResults/PackageResults/Receipt/Image/ImageFormat/Code	Yes*	One	String	4	Code representing the format in which a receipt is returned. Valid values: HTML = HTML format	
Description	/ShipmentAcceptResponse/ShipmentResults/PackageResults/Receipt/Image/ImageFormat/Description	No	One	String	1..35	Description of the image format code.	
GraphicImage	/ShipmentAcceptResponse/ShipmentResults/PackageResults/Receipt/Image/GraphicImage	Yes*	One	Encoded	Variable Length	Base 64 encoded PRL receipt in HTML format	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
Form	/ShipmentAcceptResponse/ShipmentResults/Form	Cond	One	Container	N/A	Container tag for the International forms image	
Code	/ShipmentAcceptResponse/ShipmentResults/Form/Code	*Yes	One	String	2	Code that indicates the type of form	Possible Values 01 - All Requested International Forms
Description	/ShipmentAcceptResponse/ShipmentResults/Form/Description	*Yes	One	String	1-.35	Description that indicates the type of form	Possible Values All Requested International Forms
Image	/ShipmentAcceptResponse/ShipmentResults/Form/Image	Cond	One	Container	N/A	Container tag for the International forms image	
ImageFormat	/ShipmentAcceptResponse/ShipmentResults/Form/Image/ImageFormat	Cond	One	Container	N/A	Container tag for the International forms image format information	
Code	/ShipmentAcceptResponse/ShipmentResults/Form/Image/ImageFormat/Code	Cond	One	String	3	Code representing the format in which the forms are generated Possible Values PDF = pdf	Only PDF is supported currently
Description	/ShipmentAcceptResponse/ShipmentResults/Form/Image/ImageFormat/Description	No	One	String	1-.35	Description of the form image format code.	
GraphicImage	/ShipmentAcceptResponse/ShipmentResults/Form/Image/GraphicImage	Cond	One	Base 64 Encoded	Variable Length	Base 64 encoded International forms image	
FormGroupId	/ShipmentAcceptResponse/ShipmentResults/Form/FormGroupId	Cond One	One	String	1-26	Unique Id for later retrieval of saved version of the completed international forms.	Always returned when code = 01. 01 represents international forms.
FormGroupIdName	/ShipmentAcceptResponse/ShipmentResults/Form/FormGroupIdName	No	One	String	1-50	Contains description text which identifies the group of International forms. This element is part of both request and response. This element does not appear on the forms.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
CODTurnInPage	/ShipmentAcceptResponse/ShipmentResults/CODTurnInPage	No	One	Container	N/A		
Image	/ShipmentAcceptResponse/ShipmentResults/CODTurnInPage/Image	*Yes	One	Container	N/A	The container of the image for COD Turn In Page.	
ImageFormat	/ShipmentAcceptResponse/ShipmentResults/CODTurnInPage/Image/ImageFormat	*Yes	One	Container	N/A	The container for format of COD Turn In Page	
Code	/ShipmentAcceptResponse/ShipmentResults/CODTurnInPage/Image/ImageFormat/Code	*Yes	One	String	4	Format code of the generated COD Turn In Page. Valid values: HTML = HTML format	Only HTML format is supported for COD Turn In Page.
Description	/ShipmentAcceptResponse/ShipmentResults/CODTurnInPage/Image/ImageFormat/Description	No	One	String	1-35	Description of the format code of generated COD Turn In page.	
GraphicImage	/ShipmentAcceptResponse/ShipmentResults/CODTurnInPage/Image/GraphicImage	*Yes	One	Base 64 Encoded	Variable Length	Base 64 encoded html browser image rendering software.	

The Void XML Reference

This section documents the details of the XML messages, including the requests that clients send to UPS and the responses that UPS returns. The first subsection explains the notation that this section uses. It is followed by a section that describes how UPS verifies that client applications are authorized to use the tool. The next subsections define the messages used by the tool for its services. The final subsection provides a list of error codes.

Describing XML Messages

As noted previously, all messages that UPS APIs send and receive consist of XML documents. This reference section defines the specific elements within those XML documents.

Authenticating Client Applications

UPS Shipping Services are only available for authorized UPS customers. To enforce this policy, UPS requires that every message that a client application sends include important authentication information. That information is contained in an AccessRequest XML document that must begin each message.

Void Shipment Request

Clients can void a Shipment Request by sending a VoidShipmentRequest XML message to UPS.   UPS will reply with a VoidShipmentResponse XML message to confirm the Void request. The following table describes all the elements in the VoidShipmentRequest message.

Note: The "Required" Column has four potential values:

Yes: *Always* required
No: *Always* optional
Yes*: *Conditionally* required. The existence of this element is dependent
        on the existence of a higher level container. When the Container is
        present, this element MUST also be present.
Cond: Conditional. There are specific business rules for when this
        element should be present.

Each element is described with a Name, XPath, Required, Maximum Number of Elements Allowed, Type, Length, and Description.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
VoidShipmentRequest	/VoidShipmentRequest	Yes	One	Container	N/A		
Request	/VoidShipmentRequest/Request	Yes	One	Container	N/A		
RequestAction	/VoidShipmentRequest/Request/ RequestAction	Yes	One	String	1	Indicates the action to be taken by the XML service. 1 = Void the shipment.	Currently, there is only 1 valid RequestAction value.
TransactionReference	/VoidShipmentRequest/Request/ TransactionReference		One	Container	N/A	TransactionReference identifies transactions between client and server.	
CustomerContext	/VoidShipmentRequest/Request/ TransactionReference/Customer Context		One	String	1..512	The client uses CustomerContext to synchronize request/response pairs. The client establishes CustomerContext, which can contain any information you want, as along as it is valid XML; it is echoed back by the server.	
ShipmentIdentificationNumber	/VoidShipmentRequest/ShipmentI dentificationNumber	Cond	One	String	18	The shipments identification number	Must pass 1Z rules. Must be upper case This element is mutually exclusive with the Expanded Void Shipment node.
ExpandedVoidShipment	/VoidShipmentRequest/Expanded VoidShipment	Cond	One	Container	N/A	Expanded Void Capability	This element is mutually exclusive with the VoidShipment Request/ ShipmentIdentificationNumber.
ShipmentIdentificationNumber	/VoidShipmentRequest/Expanded VoidShipment/ShipmentIdentificat ionNumber	Yes	One	String	18	The shipments identification number	Must pass 1Z rules. Must be upper case
TrackingNumber	/VoidShipmentRequest/Expanded VoidShipment/TrackingNumber	No	unbounded	String	18	The packages identification number	Must pass 1Z rules. Must be upper case.

Void Shipment Response

UPS will reply with a VoidShipmentResponse XML message to confirm the Void request. The following table describes all the elements in the VoidShipmentResponse message.

Note: The "Required" Column has four potential values:

Yes: *Always* required
No: *Always* optional
Yes*: *Conditionally* required. The existence of this element is dependent on the existence of a higher level container. When the Container is present, this element MUST also be present.
Cond: Conditional. There are specific business rules for when this element should be present.

Each element is described with a Name, XPath, Required, Maximum Number of Elements Allowed, Type, Length, and Description.

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
VoidShipmentResponse	/VoidShipmentResponse	Yes	One	Container	N/A		
Response	/VoidShipmentResponse/Response	Yes	One	Container	N/A	Contains Errors information tags along with the success/fail status of the void request.	
TransactionReference	/VoidShipmentResponse/Response/TransactionReference	Yes	One	Container	N/A		
CustomerContext	/VoidShipmentResponse/Response/TransactionReference/CustomerContext	No	One	String	0..512	Customer provided data. May be XML. If this data is present in the request, it is echoed back to the customer.	
XpciVersion	/VoidShipmentResponse/Response/TransactionReference/XpciVersion	No	One	String	1..50	Identifies the version of the message. Current version is 1.0001	
ResponseStatusCode	/VoidShipmentResponse/Response/ResponseStatusCode	Yes	One	String		Identifies the success or failure of the interchange. 1 = Success 0 = Failure	
ResponseStatusDescription	/VoidShipmentResponse/Response/ResponseStatusDescription	No	One	String	1...15	Describes the Response Status Code.	
Error	/VoidShipmentResponse/Response/Error	No	One	Container	N/A	If an error is encountered during the interchange, the Response contains an error. If the error is present, then the ErrorSeverity and ErrorCode are required.	
ErrorSeverity	/VoidShipmentResponse/Response/Error/ErrorSeverity	Yes	One	String	1...15	Describes the severity of the error.	
ErrorCode	/VoidShipmentResponse/Response/Error/ErrorCode	Yes	One	String	1...15	A numeric value that describes the error.	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
ErrorDescription	/VoidShipmentResponse/Response/Error/ErrorDescription	No	One	String	1...50	Describes the error code.	
MinimumRetrySeconds	/VoidShipmentResponse/Response/Error/MinimumRetrySeconds	No	One	String			
ErrorLocation	/VoidShipmentResponse/Response/Error/ErrorLocation	No	One	Container	N/A	Identifies the element in error.	
ErrorLocationElementName	/VoidShipmentResponse/Response/Error/ErrorLocation/ErrorLocationElementName	No	One	String	1...512	The Xpath name of the element in error. This is a valid Xpath pointing to an element in the request document.	
ErrorLocationAttributeName	/VoidShipmentResponse/Response/Error/ErrorLocation/ErrorLocationAttributeName	No	One	String	1...50	The name of the attribute in error. This is the name of the attribute contained by the Error Location element.	
ErrorDigest	/VoidShipmentResponse/Response/Error/ErrorDigest	No	One	String	Bound by the size of the Request data.	The contents of the element in error.	
Status	/VoidShipmentResponse/Status	No	One	Container	N/A	Contains Status information tags.	
StatusType	/VoidShipmentResponse/Status/StatusType	Yes	One	Container	N/A	Contains the status type tags.	
Code	/VoidShipmentResponse/Status/StatusType/Code	Yes	One	String		A numeric value that describes the status type. 1 = Success 0 = Failure	

Name	XPath	Required	Max Allowed	Type	Length	Description	Validation Rules
Description	/VoidShipmentResponse/Status/ StatusType/Description	No	One	String	1...15	A text description of the status type.	
StatusCode	/VoidShipmentResponse/Status/ StatusCode	Yes	One	Container	N/A	Contains the status code tags.	
Code	/Void ShipmentResponse/Status/Status Code/Code	Yes	One	String		The Shipment level void status code. A numeric value that describes the status code. 2 = Partially Voided 1 = Success or Voided 0 = Failure	The Voided and Partially Voided status codes are only returned in association with the expanded void functionality.
Description	/VoidShipmentResponse/Status/ StatusCode/Description	*Yes	One	String	1...15	A text description of the status code.	
PackageLevelResults	/VoidShipmentResponse/Packag eLevelResults	No	unbounded	Container	N/A	Contains the Package Level Results For the expanded void functionality only.	This node will be returned for package level voids and partially voided shipments.
TrackingNumber	/VoidShipmentResponse/Packag eLevelResults/TrackingNumber	*Yes	One	String	18	The packages identification number	
StatusCode	/VoidShipmentResponse/Packag eLevelResults/StatusCode	*Yes	One	String	1	The Package Level void status code. A numeric value that describes the status code. 1 = Voided or Already Voided 0 = Not Voided	
Description	/VoidShipmentResponse/Packag eLevelResults/Description	*Yes	One	String	1...15	A text description of the status code.	

Appendix A - Shipping Error Codes

To discover errors, check the ResponseStatusCode element. A "1" normally indicates a successful response, whereas a "0" indicates an error, either Transient or Hard. When an error occurs there will also be an error code, and an error description.

- Success – Successful responses may or may not include **Warnings**.
    - o (without warnings) Request is processed as anticipated by the client.
    - o (with warnings) *Warning* messages indicate that UPS was able to process the request; however (potentially) unanticipated results have also occurred. The warning contains information in the response that should be passed to the end user.
- Errors – will return two different levels of severity.
    - o *Transient* errors are temporary errors, due to temporary high server loads or scheduled maintenance, for example. The application may re-issue the request at a later time.
    - o *Hard* errors indicate that an error existed in the request that UPS could not resolve. These errors are critical and prevent requests from processing.

Applications should not re-issue requests with Hard errors without first correcting the error.

The following table lists the errors that UPS may return in response to a request.

Error Code	Severity	Description
10001	Hard	The XML document is not well formed
10002	Hard	The XML document is well formed but the document is not valid
120001	Transient	XML Shipping System is unavailable, please try again later.
120014	Warning	A Large Air Package Minimum Surcharge has been applied to Package %package.index%.
120016	Warning	Customs Invoice is required when the shipment is tendered to UPS.
120017	Warning	If the value of the goods you are shipping is above 6,000 Euro or local equivalent, you must supply an EUR1 form in addition to signing your invoice.
120019	Warning	The location ID you provided is not valid. Valid location ID consists of 3 to 10 alpha numeric characters.
120020	Hard	Max packages per shipment exceeded.
120021	Hard	The same shipment cannot be requested to be created more than once.
120022	Warning	For packages with high value report: give them to a UPS driver or UPS Customer Center representative to ensure he signs one copy of the receipt and returns it to you. This is your proof that UPS has accepted the package(s), and will be required for submitting a claim.
120050	Hard	RequestAction has an unsupported value.
120051	Hard	Invalid RequestOption
120100	Hard	Missing/Invalid shipper number
120101	Hard	Missing/Invalid shipper name
120102	Hard	Missing/Invalid shipper address line 1
120103	Hard	Invalid shipper address line 2
120104	Hard	Invalid shipper address line 3
120105	Hard	Missing/Invalid Shipper City
120106	Hard	Missing/Invalid Shipper StateProvinceCode
120107	Hard	Missing/Invalid Shipper PostalCode. (Description)
120108	Hard	Missing/Invalid Shipp er CountryCode
120109	Hard	Missing/Invalid Shipper PhoneNumber
120110	Hard	Missing/Invalid Shipper AttentionName
120111	Hard	Shipper EmailAddress cannot exceed a length of 50 characters
120112	Hard	Shipper EmailAddress is an invalid format
120113	Hard	Shipper number must contain alphanumeric characters only

Error Code	Severity	Description
120114	Hard	Shipper phone extension cannot exceed the length of 4.
120115	Hard	Shipper PhoneNumber must be at least 10 alphanumeric characters
120116	Hard	Shipper phone extension must contain only numbers
120117	Hard	Shipper phone extension is allowed only if the shipper is located in US, Puerto Rico or Canada
120118	Hard	Shipper phone extension is only valid if a phone number is given
120119	Hard	Shipper phone number and phone extension together cannot be more than 15 digits long
120120	Hard	The country associated with Shippers ShipperNumber must be the same as the shipments Shippers country.
120121	Hard	The Shippers shipper number cannot be used for the shipment.
120122	Hard	Invalid Shipper ShipperNumber
120200	Hard	Missing/Invalid ShipTo CompanyName
120201	Hard	Missing/Invalid ShipTo AttentionName
120202	Hard	Missing/Invalid ShipTo AddressLine1
120203	Hard	Invalid ShipTo AddressLine2
120204	Hard	Invalid ShipTo AddressLine3
120205	Hard	Missing/Invalid ShipTo/ City
120206	Hard	Missing/Invalid ShipTo StateProvinceCode
120207	Hard	Missing/Invalid ShipTo PostalCode. (Description)
120208	Hard	Missing/Invalid/Unsupported ShipTo CountryCode
120209	Hard	Missing/Invalid ShipTo PhoneNumber
120210	Hard	ShipTo EmailAddress cannot exceed a length of 50 characters
120211	Hard	ShipTo EmailAddress is an invalid format
120212	Hard	ShipTo PhoneExtension cannot exceed the length of 4.
120213	Hard	ShipTo PhoneNumber must be at least 10 alphanumeric characters
120214	Hard	ShipTo PhoneExtension must contain only numbers
120216	Hard	ShipTo PhoneExtension is only valid if a phone number is given
120217	Hard	ShipTo phone number and phone extension together cannot be more than 15 digits long
120218	Hard	Missing or Invalid ShipTo tax identification. TaxID may not exceed a length of 15.
120300	Hard	Missing/Invalid ShipFrom CompanyName
120301	Hard	Missing/Invalid ShipFrom AttentionName
120302	Hard	Missing/Invalid ShipFrom AddressLine1
120303	Hard	Invalid ShipFrom AddressLine2

Error Code	Severity	Description
120304	Hard	Invalid ShipFrom AddressLine3
120305	Hard	Missing/Invalid ShipFrom City
120306	Hard	Missing/Invalid ShipFrom StateProvinceCode
120307	Hard	Missing/Invalid ShipFrom PostalCode. (Description)
120308	Hard	Missing/Invalid/Unsupported ShipFrom CountryCode
120309	Hard	Missing/Invalid ShipFrom PhoneNumber
120310	Hard	ShipFrom EmailAddress cannot exceed a length of 50 characters
120311	Hard	ShipFrom EmailAddress is an invalid format
120312	Hard	ShipFromPhoneExtension cannot exceed the length of 4.
120313	Hard	ShipFrom PhoneNumber must be at least 10 alphanumeric characters
120314	Hard	ShipFromPhoneExtension must contain only numbers
120316	Hard	ShipFromPhoneExtension is only valid if a phone number is given
120317	Hard	The ShipFrom country must be the same as the Shipper country
120318	Hard	ShipFrom phone number and phone extension together cannot be more than 15 digits long
120400	Hard	Missing/Invalid shipment payment method
120402	Hard	Missing/Invalid credit card type
120403	Hard	Missing/Invalid credit card number
120404	Hard	Missing/Invalid credit card expiration date
120406	Hard	creditcard number is not valid for the credit card type
120407	Hard	The credit card provided as the payment method has expired.
120408	Hard	Missing credit card type
120410	Hard	One payment method is required.
120411	Hard	Credit card payment is not allowed for this shipment.
120412	Hard	{Description}
120413	Hard	The UPS account number provided as the payment method cannot be billed, please try another account.
120414	Hard	Credit card authorization failed, contact your financial institution
120415	Hard	PaymentInformation/Prepaid/BillShipper/AccountNumber must be the same shipper number as Shipper/ShipperNumber
120416	Hard	A single billing option is required per shipment.
120430	Hard	Missing/Invalid country code of billed third party
120437	Hard	Missing/Invalid PostalCode of payment account

Error Code	Severity	Description
120500	Hard	Missing/Invalid Service/Code
120501	Hard	Invalid Shipment/ReferenceNumber/Value
120502	Hard	InvoiceLineTotal/MonetaryValue must be greater than 0
120503	Hard	Shipment Description cannot exceed the length of 35 characters
120504	Hard	InvoiceLineTotal is not allowed for this shipment
120505	Hard	Saturday Delivery Option cannot be used for this shipment
120506	Hard	Invalid Shipment/ReferenceNumber/ Code
120508	Hard	Missing/Invalid On Call Air pickup date
120510	Hard	Missing/Invalid latest On Call Air pickup time
120511	Hard	Invalid earliest or latest On Call Air pickup time
120512	Hard	Shipment Description is required for this shipment.
120513	Hard	The first Email Address used for {Quantum View notification type} exceeds the maximum length of 50 characters.
120514	Hard	Invalid format for first Email Address used for {Quantum View notification type}
120515	Hard	{ notification type} Memo cannot exceed the length of 150 characters
120516	Hard	The first Email Address used for {Quantum View notification type} is missing or contains invalid characters
120517	Hard	The {order} Email Address used for { notification type} exceeds the maximum length of 50 characters
120518	Hard	The format of the {order} Email Address entered for { notification type} is invalid
120519	Hard	The {order} Email Address entered for { notification type} is missing or contains invalid characters
120520	Hard	For a shipment, the maximum number of Email Addresses allowed for Quantum View Notification is 5
120521	Hard	For a shipment, the maximum number of Memos allowed for {Quantum View notification type} is 1
120522	Hard	Alternate Delivery Time is not valid for any available services
120523	Hard	Shipment/DocumentsOnly is invalid with the shipments orgin/destination pair
120524	Hard	Package Pickup Request is not available with this shipments service
120525	Hard	AlternateDeliveryTime error: (Description)
120526	Hard	InvoiceLineTotal/MonetaryValue may not exceed the length of 8
120527	Hard	Cannot use multiple types of currency in a shipme nt
120528	Hard	A shipment can have only one type of UnitOfMeasurement for Dimensions
120529	Hard	A shipment can have only one type of UnitOfMeasurement for a Weight
120530	Hard	SuiteRoomID length of shipment pickup cannot exceed 8 characters
120531	Hard	FloorID length of shipment pickup cannot exceed 3 characters

Error Code	Severity	Description
120532	Hard	Location length of shipment pickup cannot exceed 11 characters
120533	Hard	The earliest shipment pickup time is required
120534	Hard	The latest shipment pickup time is required
120535	Hard	Contact name of shipment pickup is required
120536	Hard	Contact phone number of shipment pickup is required
120537	Hard	Invalid/Missing the earliest shipment pickup time
120538	Hard	Shipment Pickup Error: (further description is provided in XML)
120539	Hard	InvoiceLineTotal/ MonetaryValue is required and must be a whole number
120540	Hard	On Call Air Pickup is not available for this shipment
120541	Hard	Shipment/ReferenceNumber is not allowed for this shipment
120542	Hard	Package/ReferenceNumber is not allowed for this shipment
120543	Hard	No more than 2 Shipment/ReferenceNumber can be given per shipment
120544	Hard	No more than 2 Package/ReferenceNumber can be given per package
120545	Hard	Shipment/Description is not valid with this shipment
120546	Hard	(UOM Weight) is not a valid unit of measurement for weight for this shipment
120547	Hard	(UOM Dimension) is not a valid unit of measurement for dimensions.
120548	Hard	A s hipment cannot have a KGS/IN or LBS/CM as its unit of measurements
120597	Hard	Invalid COD currency code. Please use the destination country currency code.
120598	Hard	Package Delivery Confimation is not allowed with the shipment origin/destination
120599	Hard	Invalid package Delivery Confirmation type
120600	Hard	Missing Package/Packag ingType/Code
120601	Hard	Missing/Invalid Package weight
120602	Hard	Missing/Invalid Combination of package length, width, and height values.
120603	Hard	Invalid Package/Reference/Value
120604	Hard	Invalid package declared value
120605	Hard	Mismatch package dimensions with package type
120606	Hard	Mismatch package dimensions, package type and package weight
120607	Hard	Invalid Package/Reference/Code
120608	Hard	Package weight is required
120609	Hard	All Package Dimensions are required and each must be greater than 0
120610	Hard	Invalid COD monetary value

Error Code	Severity	Description
120611	Hard	The contact name of verbal confirmation cannot exceed a length of 35
120612	Hard	The contact phone number of verbal confirmation cannot exceed the length of 15
120613	Hard	The contact phone number of verbal confirmation must be at least 10 alphanumeric characters
120614	Hard	The contact phone extension of verbal confirmation cannot exceed the length of 4
120615	Hard	The contact phone extension of verbal confirmation must contain numbers only
120616	Hard	Package weight cannot exceed a length of 6
120617	Hard	Package declared value cannot exceed a value of 999
120618	Hard	Contact name is required for verbal confirmation of delivery
120619	Hard	Contact phone number is required for verbal confirmation of delivery
120620	Hard	Package/PackageWeight, Package/DimensionalWeight, Package/OversizePackage and Package/Dimensions do not apply to UPS Envelopes
120621	Hard	Package declared value cannot be greater than {Monetary Amount} {Currency Code}
120622	Hard	Package description is required
120623	Hard	Invalid Package description
120624	Hard	Only one package is allowed for this movement.
120626	Hard	The COD Funds Code is invalid. Please check the value entered
120627	Hard	The COD Code is invalid. Please check the value entered
120654	Hard	No more than two email addresses for Receiver Return Notification are allowed in a shipment
120655	Hard	{Email field} of Receiver Return Notification is only allowed to be specified at the first package.
120658	Hard	Receiver Return Notification is not allowed for the shipment without return service
120659	Hard	ShipmentServiceOptions/ShipmentNotification is not allowed with return service
120660	Hard	ShipmentServiceOptions/ShipmentNotification is not allowed with ShipmentServiceOptions/Notification
120661	Hard	For a shipment, the maximum number of {email field} allowed for Quantum View notification is 1.
120662	Hard	Invalid Subject Code of {Notification type}
120663	Hard	Invalid From name of {Notification tye}
120664	Hard	Invalid UndeliverableEMailAddress of {Notification type}
120665	Hard	Invalid FromEMailAddress of {Notification type}
120666	Hard	Missing/Invalid subject text of {Notification type}
120667	Hard	{field} is not allowed in Quantum View Notification
120670	Hard	Shipper Release is not allowed with Return Service
120700	Hard	Missing/Invalid LabelSpecification/ LabelPrintMethod/Code
120701	Hard	Missing/Invalid LabelSpecification/ HTTPUserAgent

Error Code	Severity	Description
120702	Hard	Missing/Invalid LabelSpecification/ LabelImageFormat/Code
120703	Hard	Missing/Invalid Combination of LabelSpecification/ LabelStockSize
120704	Hard	Invalid LabelSpecification/ LabelStockSize/Height
120705	Hard	Invalid LabelSpecification/LabelStockSize/Width
120759	Hard	Invalid MovementReferenceNumber
120760	Hard	Invalid MovementReferenceNumber
120761	Hard	Invalid MovementReferenceNumber
120801	Hard	Address Validation Error on Shipper address
120802	Hard	Address Validation Error on ShipTo address
120803	Hard	Address Validation Error on ShipFrom address
120804	Warning	Address Validation Warning on Shipper address. {Description}
120805	Warning	Address Validation Warning on ShipTo address. {Description}
120806	Warning	Address Validation Warning on ShipFrom address {Description}
120900	Warning	User Id and Shipper Number combination is not eligible to receive Account Based Rates.
120901	Warning	Negotiated Rates are unavailable at this time.
121005	Hard	The COD option cannot be combined with the Return Services option.
121015	Hard	The Saturday Delivery option cannot be combined with the Return Services option.
121020	Hard	The Delivery Confirmation option cannot be combined with the Return Services option.
121025	Hard	The maximum declared amount $50,000 is exceeded
121030	Hard	Packages must weigh more than zero pounds.
121031	Hard	Packages must weigh more than zero kilogram
121035	Hard	{description}
121036	Hard	{description}
121045	Hard	The Saturday Delivery option is unavailable with the requested service. The Saturday Delivery option is unavailable with the requested service.
121047	Hard	Saturday Delivery may not be combined with the package type for the given product.
121050	Hard	Package exceeds the maximum size total constraints { description}
121055	Hard	Package exceeds the maximum length constraint of {desription} inches. .
121056	Hard	Package exceeds the maximum length constraint of {desription} cm.
121057	Hard	The measurment system is not valid
121063	Hard	Accessorial cannot be shipped with the selected service.
121070	Hard	{Rating error description}.

Error Code	Severity	Description
121085	Hard	The requested accessory cannot be added to the shipment.
121090	Hard	{Rating error description}
121091	Hard	{Rating error description}
121100	Hard	The selected service is invalid for the shipment origin.
121105	Hard	The given accessory key is invalid for the shipment origin.
121106	Hard	The specified country, origin or dest, is not supported.
121107	Hard	A blank origin postal was specified.
121109	Hard	The Delivery Area Surcharge Tier looked up is invalid
121115	Hard	The COD amount must be greater than zero
121120	Hard	The COD amount cannot exceed $1,000 when a cashiers check or money order is requested.
121121	Hard	The COD value entered exceeds the maximum allowed for cash of {amount} ({currency code})
121125	Hard	The COD amount cannot exceed $50,000.
121126	Hard	The COD value entered exceeds the maximum allowed for check of {amount} ({currency code})
121135	Hard	The Saturday Pickup option cannot be combined with the Saturday Delivery option.
121140	Hard	Saturday Pickup is unavailable with the selected service.
121150	Hard	Delivery confirmation is unavailable with the selected service.
121155	Hard	The COD option is unavailable with the selected service, UPS account type, and/or with the shipments origin/destination pair.
121160	Hard	The accessory is invalid with the billing option.
121170	Hard	The Delivery Confirmation option cannot be combined with the Verbal Confirmation of Delivery option.
121175	Hard	Verbal Confirmation of Delivery is unavailable with the selected service.
121180	Hard	Consignee Billing is unavailable with the selected service.
121185	Hard	The selected service is unavailable to the desired country
121195	Hard	The selected billing option is unavailable with the selected service.
121196	Hard	The selected billing option is unavailable with UPS Letters.
121200	Hard	Saturday Delivery is unavailable to desired destination.
121205	Hard	Additional Handling is unavailable with the selected service.
121206	Hard	Additional Handling is unavailable with UPS Letters.
121208	Hard	UPS Next Day Air Early A.M. service is not available to the requested destination. Please select UPS Next Day Air service as an alternative.
121210	Hard	The selected service is not available from the origin to the destination.
121211	Hard	Rating Error: (Description)

Error Code	Severity	Description
121212	Hard	{Rating error description}
121213	Hard	{Rating error description}
121214	Hard	UPS cannot ship from the origin country to the destination country
121215	Hard	The selected service is not available to residential destinations.
121230	Hard	Next Day Air Early AM Surcharge is unavailable with the selected service.
121231	Hard	Switzerland Domestic Container must weigh greater than 2 KG
121232	Hard	Worldwide Express Plus from Europe to Switzerland must be UPS Envelope or document only
121235	Hard	{rating error description}
121245	Hard	Saturday Pickup and Shipper Duty Fees cannot be applied to the same package.
121250	Hard	Saturday Delivery and Shipper Duty Fees cannot be applied to the same package.
121255	Hard	Shipper Duty Fee is unavailable with the selected service.
121260	Hard	Shipper Duty Fee is unavailable with the selected billing option.
121261	Hard	Accessory may not be combined with the product.
121262	Hard	Accessory may not be combined with the accessory.
121265	Hard	The selected billing option is unavailable to the desired country.
121266	Hard	The currency code is invalid for the shipment.
121267	Hard	The Ship From Country is invalid for the credit card.
121268	Hard	The Billing address Country is invalid for the credit card.
121285	Hard	{Rating error descritpion}
121286	Hard	{Rating error description}
121290	Hard	The given billing option is invalid
121295	Hard	{Rating error description}
121300	Hard	Shipper Pays Duty - Tax Unpaid is unavailable with the selected accessorial.
121305	Hard	Shipper Pays Duty - Tax Unpaid is unavailable with the selected service.
121310	Hard	Shipper Pays Duty - Tax Unpaid is unavailable with the selected billing option.
121315	Hard	The Authorized Return Service is unavailable with the selected accessorial.
121320	Hard	The Authorized Return Service is unavailable with the selected service.
121325	Hard	The Authorized Return Service is unavailable with the selected billing option.
121330	Hard	The Certificate of Origin is unavailable with the selected accessorial.
121335	Hard	The Certificate of Origin is unavailable with the selected service.
121340	Hard	The Certificate of Origin is unavailable with the selected billing option.

Error Code	Severity	Description
121345	Hard	The Shipper Export Declaration is unavailable with the selected accessorial.
121350	Hard	The Shipper Export Declaration is unavailable with the selected service.
121355	Hard	The Shipper Export Declaration is unavailable with the selected billing option.
121360	Hard	The Worldwide Express Plus Surcharge is unavailable with the selected service.
121363	Hard	The One Time Pickup Surcharge is unavailable with the selected service.
121365	Hard	Accessorial is not available with the selected access method.
121370	Hard	Invalid access method.
121375	Hard	Letter service is invalid for shipments with more than 1 package. International shipment cannot be made with multiple 10KG or 25KG packages
121460	Hard	Shipments cannot exceed a COD amount of $5,000 when requesting a cashiers check or money order.
121500	Hard	{Rating error description}
121501	Hard	{Rating error Description}
121510	Hard	Unsupported package type type.
121511	Hard	Unsupported accessory type
121512	Hard	Unsupported billing option
121513	Hard	Unsupported service
121515	Warning	Weight of (actual weight) exceeds maximum for rating the requested container. Using standard package rates.
121520	Hard	The UPS account number specified for Transportation charges is invalid for Split Duty VAT shipment.
121521	Hard	Invalid payer of Duty and Tax
121522	Hard	The payment information must be the same for both Transportation charges and Duty and Tax charges when Bill to Shipper or Bill to Receiver is specified as the payer.
121523	Hard	Invalid GoodsNotInFreeCirculationIndicator
121524	Warning	The payer of Duty and Tax charges is not required for UPS Letter, Documents of No Commercial Value or Qualified Domestic Shipments.
121526	Hard	The payment method specified for Transportation charges is invalid for return service.
121527	Hard	The payer of Transportation charges is required.
121528	Hard	Missing or invalid ItemizedPaymentInformation/ShipmentCharge/Type
121529	Hard	A single payment method is required per shipment charge.
121530	Hard	The payer of Duty and Tax charges is required.
121531	Hard	Invalid SplitDutyVATIndicator
121532	Hard	The payer of Duty and Tax charges is invalid for Split Duty VAT shipment.

Error Code	Severity	Description
121534	Hard	The payer of Transportation charges and the payer of Duty and Tax charges must not be the same for Split Duty VAT shipment.
121535	Hard	The payer of Transportation charges is invalid for Split Duty VAT shipment.
121536	Hard	Bill Receiver is an invalid payer of an international return movement.
121537	Hard	A payer is required when specifying a shipment charge.
121538	Hard	For a domestic return movement, the payer of the freight must be in the country of the return movement.
121539	Hard	For an EU return movement, the payer of the freight must be in an EU country.
121801	Hard	The country selected for transportation charges does not allow for Third Party payment option.
121802	Hard	The country selected for duty/taxes charges does not allow for Third Party payment option.
123005	Warning	(Description)
123010	Warning	Package(s) in this shipment contains a warning: (Description)
123020	Warning	Invalid Ship From postal code
123021	Warning	Invalid Ship To postal code
125000	Hard	Missing or invalid shipment digest.
129001	Warning	Additional Handling has automatically been set on Package (index of the package).
129002	Warning	An Extended Area Surcharge of (monetary value) has been added to the service cost.
129003	Warning	{Rating error description}
129004	Warning	{Rating error description}
129005	Warning	{Rating error description}
129006	Warning	{Rating error description}
129017	Warning	{Rating error description} .
29018	Warning	{Rating error description} .
129019	Hard	{Rating error description}
20001	Hard	General process failure
121156	Hard	Package Level COD is not valid for the shipment origin and/or destination
129021	Hard	Both Security code and Billing address are required if credit card information is provided. If security code or billing address is provided both of them should be provided
129022	Hard	This credit card has been locked due to multiple unsuccessful validation attempts. Please use another credit card to continue or try again later.
129046	Hard	Missing credit card billing address line 1
129048	Hard	Missing c redit card billing address city
129049	Hard	Missing credit card billing address state province code

Error Code	Severity	Description
129050	Hard	Missing credit card billing address postal code
129051	Hard	Missing credit card billing address country code
129070	Warning	{Rating error description}
120124	Hard	The requested service is unavailable between the selected locations
120125	Hard	Consignee billing is only supported in US or Pureto Rico
129057	Hard	Location ID may not exceed the length of 10
128014	Hard	Inva lid ultimate consignee address line 3. Valid length is 0 to 35 alphanumeric
128015	Hard	Invalid or missing ultimate consignee city. Valid length is 1 to 30 alphanumeric
128016	Hard	Invalid ultimate consignee state province code. Valid length is 0 to 5 alphanumeric
128017	Hard	Invalid ultimate consignee postal code. Valid length is 0 to 9 alphanumeric
128018	Hard	Invalid or missing ultimate consignee country code
128019	Hard	Invalid or missing intermediate consignee company name. Valid length is 1 to 35 alphanumeric
128020	Hard	Invalid or missing intermediate consignee address line 1. Valid length is 1 to 35 alphanumeric
128021	Hard	Invalid intermediate consignee address line 2. Valid length is 0 to 35 alphanumeric
128022	Hard	Invalid intermediate consignee address line 3. Valid length is 0 to 35 alphanumeric
128023	Hard	Invalid or missing intermediate consignee city. Valid length is 1 to 30 alphanumeric
128024	Hard	Invalid intermediate consignee state province code. Valid length is 0 to 5 alphanumeric
128025	Hard	Invalid intermediate consignee postal code. Valid length is 0 to 9 alphanumeric
128026	Hard	Invalid or missing intermediate consignee country code
128027	Hard	Invalid or missing producer option. Valid values are 01, 02, 03 or 04
128028	Hard	Invalid or missing producer company name. Valid length is 1 to 35 alphanumeric
128029	Hard	Invalid or missing producer address line 1. Valid length is 1 to 35 alphanumeric
128030	Hard	Invalid producer address line 2. Valid length is 0 to 35 alphanumeric
128031	Hard	Invalid producer address line 3. Valid length is 0 to 35 alphanumeric
128032	Hard	Invalid or missing producer city. Valid length is 1 to 30 alphanumeric
128033	Hard	Invalid producer sta te province code. Valid length is 0 to 5 alphanumeric
128034	Hard	Invalid producer postal code. Valid length is 0 to 9 alphanumeric
128035	Hard	Invalid or missing producer country code
128036	Hard	Invalid producer phone number. Valid length is 0 to 15 alphanumeric
128037	Hard	Invalid producer email address. Valid length is 0 to 50 alphanumeric
128038	Hard	Invalid producer tax id. Valid length is 0 to 15 alphanumeric

Error Code	Severity	Description
128039	Hard	Invalid number of products. Valid number of products are 1 to 4
128041	Hard	The form sp ecified for the product must be one of the requested form.
128042	Hard	If invoice is a requested international form, all specified products must belong to invoice
128043	Hard	Invalid or missing product unit number. Valid length is 1 to 7 numeric
128044	Hard	Invalid or missing Product/Unit/UnitOfMeasurement/Code. Valid length is 1 to 3 alphanumeric
128045	Hard	Product/Unit/UnitOfMeasurement/Description is required when Product/Unit/UnitOfMeasurement/Code is OTH . Valid length is 1 to 3 alphanumeric
128046	Hard	Invalid or missing product unit value. Valid length is 1 to 12 numeric and it can hold up to 6 decimal places
128047	Hard	Invalid part number. Valid length is 0 to 10 alphanumeric
128048	Hard	Invalid commodity code. Valid length is 6 to 15 alphanumeric
128049	Hard	Invalid or missing product origin country code
128050	Hard	Invalid or missing net cost code. Valid values are NC or NO
128051	Hard	Invalid or missing net cost date range begin date. Valid format is MMDDYYYY
128052	Hard	Invalid or missing net cost date range end date. Valid format is MMDDYYYY
128053	Hard	Invalid or missing preference criteria. Valid values are A through F
128054	Hard	Invalid or missing producer info. Valid values are YES, NO[1] , NO[2] or NO[3]
128055	Hard	Invalid or missing marks and numbers. Valid length is 1 to 35 alphanumeric
128056	Hard	Invalid or missing product weight unit of measurement code. Valid values are KGS or LBS
128057	Hard	Invalid or missing product weight. Valid length is 1 to 5 and it can hold up to 1 decimal places.
128058	Hard	Invalid product vehicle ID. Valid length is 1 to 25 alphanumeric
128059	Hard	Invalid or missing product schedule B number. Valid length is 10 alphanumeric
128060	Hard	Invalid product schedule B quantity. Valid length is 0 to 10 numeric
128061	Hard	Invalid or missing product schedule B unit of measurement code. Valid length is 1 to 3 alphanumeric
128062	Hard	Schedule B quantity is required when the schedule B unit of measurement code is not equal to X
128063	Hard	Invalid or missing export type. Valid values are D, F or M
128064	Hard	Invalid or missing SED total value. Valid length is 1 to 15 numeric and can hold up to 2 decimal places
128065	Hard	Invalid invoice number. Valid length is 0 to 35 alphanumeric
128066	Hard	Invalid or missing invoice date. Valid format is MMDDYYYY
128067	Hard	Invalid purchase order number. Valid length is 0 to 35 alphanumeric
128068	Hard	Invalid terms of shipment.
128069	Hard	Invalid or missing reason for export. Valid length is 1 to 20 alphanumeric

Error Code	Severity	Description
128070	Hard	Invalid additional comments. Valid length is 0 to 150 alphanumeric
128071	Hard	Invalid declaration statement. Valid length is 0 to 250 alphanumeric
128072	Hard	Invalid discount monetary value. Valid length is 0 to 15 numeric and can hold up to 2 decimal places. Discount can not be greater than the invoice line total.
128073	Hard	Invalid freight charges monetary value. Valid length is 0 to 15 numeric and can hold up to 2 decimal places.
128074	Hard	Invalid other charges monetary value. Valid length is 0 to 15 numeric and can hold up to 2 decimal places.
128075	Hard	Invalid or missing other charges description. Valid length is 1 to 10 alphanumeric
128076	Hard	Invalid or missing blanket period begin date. Valid format is MMDDYYYY
128077	Hard	Invalid or missing blanket period end date. Valid format is MMDDYYYY
128078	Hard	Invalid or missing export date. Valid format is MMDDYYYY
128079	Hard	Invalid or missing export carrier. Valid length is 1 to 35 alphanumeric
128080	Hard	Invalid carrier ID. Valid length is 0 to 2 alphanumeric
128081	Hard	Invalid or missing in bond code. Valid length is 2 alphanumeric
128082	Hard	Entry number is required when the in bond code is other than 70. Valid Length is 1 to 25 alpha numeric
128083	Hard	Invalid or missing point of origin. Valid length is 1 to 5 alphanumeric
128084	Hard	Invalid or missing mode of transport. Valid length is 1 to 35 alphanumeric
128085	Hard	Invalid port of export. Valid length is 0 to 35 alphanumeri c
128086	Hard	Invalid port of unloading. Valid length is 0 to 35 alphanumeric
128087	Hard	Invalid loading pier. Valid length is 0 to 35 alphanumeric
128088	Hard	Invalid or missing parties to transaction. Valid values are R or N
128089	Hard	Invalid license number. Valid length is 0 to 35 alphanumeric
128090	Hard	Invalid or missing license date. Valid format is MMDDYYYY
128091	Hard	Invalid license exception code. Valid length is 0 to 3 alphanumeric
128092	Hard	Either license number or license exception code must be presen t for a SED form.
128093	Hard	Invalid ECCN number code. Valid length is 1 to 3 alphanumeric
128094	Hard	Sold to information is required when an invoice or NAFTA CO is requested.
128095	Hard	Invalid or missing sold to company name. Valid length is 1 to 35 alphanumeric
128096	Hard	Invalid or missing sold to address line 1. Valid length is 1 to 35 alphanumeric
128097	Hard	Invalid sold to address line 2. Valid length is 0 to 35 alphanumeric
128098	Hard	Invalid sold to address line 3. Valid length is 0 to 35 alphanumeric
128099	Hard	Invalid or missing sold to city. Valid length is 1 to 30 alphanumeric

Error Code	Severity	Description
128100	Hard	Invalid sold to state province code. Valid length is 0 to 5 alphanumeric
128101	Hard	Invalid sold to postal code. Valid length is 0 to 9 alphanumeric
128102	Hard	Invalid or missing sold to country code
128103	Hard	The selected international form is not valid for the shipment origin country
128104	Hard	Invalid product origin country for the selected international form
128105	Hard	The selected international form is not valid for the shipment origin and destination countries
128109	Hard	Invalid or missing sold to attention name. Valid value is 1 to 35 alphanumeric
128110	Hard	Invalid sold to option. Valid values are 01 or 02
128111	Hard	Commodity code is required for NAFTA CO
128112	Hard	Invalid insurance monetary value. Valid length is 0 to 15 numeric and can hold up to 2 decimal places.
128113	Hard	Invalid product description. Product description should be present atleast once. Valid range is 0 to 35 alphanumeric
128114	Hard	Invalid or missing currency code. Valid length is 3 alphanumeric.
128115	Hard	Invalid or missing sold to phone number. Valid length is 1 to 15 alphanumeric.
128116	Hard	Invalid sold to tax identification number. Valid length is 1 to 15 alphanumeric.
128117	Hard	Invalid or missing Shipper tax identification.
128118	Hard	Invalid license information. Either license number and license date or license exception code and ECCN number must be present. Both the combinations can not be present together.
128119	Hard	Invalid or missing product number of packages per commodity. Valid length is 1 - 3 Numerics
128120	Hard	Origin country must be different than destination country.
128121	Hard	Missing value of other unit of measurement.
128122	Hard	Invalid net cost date range.
128123	Hard	Invoice cannot be requested for non-document forward shipments.
128124	Hard	Invalid blanket period.
128125	Hard	Invalid or missing ShipFrom tax identification.
128126	Hard	Invalid or missing SED filing option. SED filing option is required when SED form is requested. Valid values are 01 and 02.
128201	Hard	Invalid international forms form type for shipment with return service. Valid value is 01.
128202	Hard	International forms can not be requested for letters or documents.
129058	Hard	Shipper Number {0} does not support pallet Contract Service.
129059	Hard	Shipper Number {0} does not support Third Country Contract Service.
129076	Hard	Pallets may not be included with other package types.
129077	Warning	A dimensional surcharge has been added to pallet {0}.

Error Code	Severity	Description
129078	Hard	The maximum dimensions for a pallet are 200 cm by 160 cm by 120 cm .
129079	Hard	The requested service is not valid with pallets with a weight gre ater than 1000kg. Please select Dedicated Package Courier Same Day Service.
129080	Hard	Pallet {0} exceeds maximum width.
129081	Hard	Pallet {0} exceeds maximum height.
129082	Hard	Pallet {0} exceeds maximum length.
129083	Hard	Pallet {0} exceeds maximum weight.
120971	Warning	Your invoice may vary from the displayed reference rates
129090	Hard	Only future date pickup is available for pickup requests for the requested origin and destination and selected service
129085	Hard	Cannot combine declared value and shipper declared value in a shipment.
129086	Hard	GNIFC is not valid for Letters/Envelopes and documents with no commercial value.
129087	Hard	Invalid Shipment Delivery Confirmation Type
129088	Hard	Package Delivery Confirmation DCISNumber may not exceed a length of 11.
123060	Warning	'The weight exceeds the limit for the UPS Letter/Envelope rate and will be rated using the weight
129023	Hard	Line Origin Country is missing or invalid
129024	Hard	Invoice Line Total is missing or invalid
129025	Hard	Invoice subtotal is missing or invalid
129026	Hard	Reason for export is missing or invalid
129027	Hard	Invoice line number is missing or invalid
129028	Hard	Line Unit Amount Price is missing or invalid
129029	Hard	Commodity quantity is missing or invalid
129030	Hard	Commodity unit of meausure is missing or invalid
129031	Hard	Merchandise description1 is missing or invalid
129032	Hard	Merchandise description2 is missing or invalid
129033	Hard	Merchandise description3 is missing or invalid
129034	Hard	Total Amount is missing or invalid
129035	Hard	PO number missing or invalid
129036	Hard	Terms of shipment is missing or invalid
129037	Hard	Freight Charges is missing or invalid
129038	Hard	Insurance is missing or invalid
129039	Hard	Discount is missing or invalid

Error Code	Severity	Description
129040	Hard	Other charges is missing or invalid
129041	Hard	Commodity code is missing or invalid
129042	Hard	Commodity part number is missing or invalid
129043	Hard	Invoice number is missing or invalid
129044	Hard	Commodity currency code is missing or invalid
129045	Hard	Commodity comments is missing or invalid
120018		International Form Data Holder Exception
120651		Invalid PackageServiceOptions/LabelDelivery/EMailMessage/SubjectCode
120652		Invalid ShipmentServiceOptionsNotification/EMailMessage/SubjectCode
120653		Invalid PackageServiceOptionsNotification/ EMailMessage/SubjectCode
121453		Hundredweight is not valid with Return Service options

Appendix B - Void Error Codes

To discover errors, check the ResponseStatusCode element. A "1" normally indicates a successful response, whereas a "0" indicates an error, either Transient or Hard. When an error occurs there will also be an error code, and an error description.

- Success – Successful responses may or may not include **Warnings**.

    o   (without warnings) Request is processed as anticipated by the client.

    o   (with warnings) *Warning* messages indicate that UPS was able to process the request; however (potentially) unanticipated results have also occurred. The warning contains information in the response that should be passed to the end user.

- Errors – will return two different levels of severity.

    o   *Transient* errors are temporary errors, due to temporary high server loads or scheduled maintenance, for example. The application may re-issue the request at a later time.

    o   *Hard* errors indicate that an error existed in the request that UPS could not resolve. These errors are critical and prevent requests from processing.

Applications should not re-issue requests with Hard errors without first correcting the error.

The following table lists the errors that UPS may return in response to a request.

Error Code	Severity	Description
10001	Hard	The XML document is not well formed
10002	Hard	The XML document is well formed but the document is not valid
190001	Transient	Void not available at this time
190002	Transient	Invalid/Missing registration ID
190100	Hard	Invalid ShipmentIdentificationNumber.
190101	Hard	Time for voiding has expired.
190102	Hard	No shipment found within the allowed void period
190103	Hard	The Pickup Request associated with this shipment has already been completed
190104	Hard	Return shipments cannot be voided.
190105	Hard	Pickup Cancellation is not Available on this Pickup Request
190106	Hard	Pickup Cancellation is not Available on this Pickup Request
190107	Hard	The Pickup Request associated with this shipment has previously been canceled
190108	Hard	The Pickup Request associated with this shipment cannot be canceled
190109	Hard	Invalid TrackingNumber
190110	Hard	Invalid Void Package {0}
190111	Hard	Package Void Limit Exceeded
190112	Hard	Return Service Shipments cannot be Voided at the Package Level
190113	Hard	International Shipments cannot be Voided at the Package Level
190114	Hard	Invalid Return Service Void Date
190115	Hard	Invalid Void Date
190116	Hard	A Label cannot be generated for a voided Return Service Shipment
190117	Hard	The Shipment has already been voided
190118	Hard	Same Day Service Void Not Allowed.
190119	Warning	The requested Void was successful, but the associated Pickup was not Cancelled
190121	Hard	None of the submitted packages were voided
190122	Hard	Package(s) {0} selected to void is(are) invalid

Appendix C - Label Recovery Error Codes

To discover errors, check the ResponseStatusCode element. A "1" normally indicates a successful response, whereas a "0" indicates an error, either Transient or Hard. When an error occurs there will also be an error code, and an error description.

Success – Successful responses may or may not include **Warnings**.

(without warnings) Request is processed as anticipated by the client.

(with warnings) *Warning* messages indicate that UPS was able to process the request; however (potentially) unanticipated results have also occurred. The warning contains information in the response that should be passed to the end user.

Errors – will return two different levels of severity.

Transient errors are temporary errors, due to temporary high server loads or scheduled maintenance, for example. The application may re-issue the request at a later time.

Hard errors indicate that an error existed in the request that UPS could not resolve. These errors are critical and prevent requests from processing.

Applications should not re-issue requests with Hard errors without first correcting the error.

The following table lists the errors that UPS may return in response to a request.

Error Code	Severity	Description
10001	Hard	The XML document is not well formed
10002	Hard	The XML document is well formed but the document is not valid
20011	Hard	The Integration Indicator is no longer supported
300000	Transient	Label Recovery system is currently unavailable
300001	Hard	Multiple shipments found for the request
300002	Hard	Label is unavailable -- the package has been sent to the destination address
300003	Hard	The requested shipment contains more than 100 packages.
300004	Hard	Invalid shipments return service for label recovery
300005	Hard	Either tracking number or combination of reference plus shipper number required
300006	Hard	Label is unavailable -- the label is expired
300007	Hard	The shipment for the requested tracking number or the combination of reference number plus shipper number could not be found. Please check the submitted data or wait until the shipment is processed.
300008	Hard	Invalid Translate/code
300009	Hard	Invalid Inquire Method
300013	Hard	Invalid Label Print Method
300014	Hard	Invalid Tracking Number
300022	Warning	Email subsystem is currently unavailable
300023	Hard	Invalid LabelSpecification/HTTPUserAgent
300026	Warning	The Label Link Email has been sent to the orginal label delivery email adderss when the shipment was placed instead of the requested email address
300030	Hard	Invalid Reference Number
300031	Hard	Invalid Shipper Number
300032	Hard	Label is unavailable -- the shipment has no {0}
300033	Hard	The shipment for which you are trying to recover a label or Receipt has been voided. Please contact the vendor for further information
300034	Hard	Label is unavailable -- the shipment has not been processed.
300035	Hard	Too many shipments found with the requested Shipper Number and Reference Number. Please re-submit the request with the Tracking Number.

Appendix D - Country Codes

UPS country code abbreviations generally follow the recommendations of the International Standards Organization, which publishes a list of currency abbreviations in ISO Standard 3166. The following table lists the ISO country codes that ISO had defined when this document was published. The latest information is available from the ISO web site.

Please note that not all UPS services are available in every country. For more information on UPS services, refer to the latest *UPS Rate and Service Guide* available at http://www.ups.com.

Country Code	Country Name	Forward Origin	Return Origin
IE	Ireland	Yes	Yes
CH	Switzerland	Yes	Yes
PR	Puerto Rico	Yes	Yes
PT	Portugal	Yes	Yes
FI	Finland	Yes	Yes
FR	France	Yes	Yes
US	United States	Yes	Yes
GB	United Kingdom	Yes	Yes
DK	Denmark	Yes	Yes
JP	Japan	Yes	Yes
IT	Italy	Yes	Yes
CZ	Czech Republic	Yes	Yes
TW	Taiwan, Province of China	Yes	Yes
AU	Australia	Yes	Yes
AT	Austria	Yes	Yes
SE	Sweden	Yes	Yes
SG	Singapore	Yes	Yes
ES	Spain	Yes	Yes
CA	Canada	Yes	Yes
HU	Hungary	Yes	Yes
DE	Germany	Yes	Yes
BE	Belgium	Yes	Yes
MX	Mexico	Yes	Yes
CN	China	Yes	Yes
NL	Netherlands	Yes	Yes
HK	Hong Kong	Yes	Yes
RU	Russian Federation	Yes	Yes

Country Code	Country Name	Forward Origin	Return Origin
MY	Malaysia	Yes	Yes
PL	Poland	Yes	Yes
BW	Botswana		
BV	Bouvet Island		
BR	Brazil	Yes	Yes
BA	Bosnia and Herzegovina		
BJ	Benin		
BO	Bolivia		
BZ	Belize		
BN	Brunei Darussalam		
IO	British Indian Ocean Territory		
BT	Bhutan		
BY	Belarus		
KY	Cayman Islands		
CF	Central African Republic		
TD	Chad		
BM	Bermuda		
BG	Bulgaria		Yes
BI	Burundi		
CC	Cocos (Keeling) Islands		
CO	Colombia		Yes
BF	Burkina Faso		
KH	Cambodia		
CD	Congo, The Democratic Republic of		
CK	Cook Islands		
CR	Costa Rica	Yes	Yes
CM	Cameroon		
BB	Barbados		
CU	Cuba		
CY	Cyprus		Yes
CV	Cape Verde		

Country Code	Country Name	Forward Origin	Return Origin
CL	Chile	Yes	Yes
AZ	Azerbaijan		
AI	Anguilla		Yes
AQ	Antarctica		
EC	Ecuador		Yes
EG	Egypt		
SV	El Salvador		Yes
GQ	Equatorial Guinea		
ER	Eritrea		
EE	Estonia		Yes
ET	Ethiopia		
CX	Christmas Island		
FO	Faroe Islands		
FJ	Fiji		
KM	Comoros		
AO	Angola		
GF	French Guiana		
PF	French Polynesia		
TF	French Southern Territories		
GA	Gabon		
GM	Gambia		
CG	Congo		
CI	Côte Divoire		
GH	Ghana		
GI	Gibraltar		
GR	Greece	Yes	Yes
GL	Greenland		
GD	Grenada		Yes
GP	Guadeloupe		
GU	Guam		
GT	Guatemala	Yes	Yes

Country Code	Country Name	Forward Origin	Return Origin
HR	Croatia		Yes
AS	American Samoa		
BS	Bahamas		
GY	Guyana		
HT	Haiti		Yes
HM	Heard Island and Mcdonald Islands		
VA	Holy See (Vatican City State)		
HN	Honduras		Yes
BD	Bangladesh		
BH	Bahrain		
AW	Aruba		
IN	India	Yes	Yes
ID	Indonesia	Yes	Yes
AM	Armenia		
IQ	Iraq		
AR	Argentina	Yes	Yes
AL	Albania		Yes
AG	Antigua and Barbados		Yes
DJ	Djibouti		
JM	Jamaica		Yes
DO	Dominican Republic	Yes	Yes
JE	Jersey	Yes	Yes
JO	Jordan		
KZ	Kazakhstan		
KE	Kenya		
DM	Dominica		
FK	Falkland Islands (Malvinas)		
KR	Korea, Republic of	Yes	Yes
KW	Kuwait		
KG	Kyrgyzstan		
LA	Lao Peoples Democratic Republic		

Country Code	Country Name	Forward Origin	Return Origin
LV	Latvia		Yes
LB	Lebanon		Yes
AF	Afghanistan		
LR	Liberia		
LY	Libyan Arab Jamahiriya		
LI	Liechtenstein		Yes
LT	Lithuania		Yes
LU	Luxembourg		Yes
MO	Macao	Yes	Yes
MK	Macedonia, The Former Yugoslav Republic of		
MG	Madagascar		
MW	Malawi		
AD	Andorra		Yes
MV	Maldives		
ML	Mali		
MT	Malta		Yes
MH	Marshall Islands		
MQ	Martinique		Yes
MR	Mauritania		
MU	Mauritius		
YT	Mayotte		
GE	Georgia		
FM	Micronesia, Federated States of		
MD	Moldova, Republic of		
MC	Monaco		Yes
MN	Mongolia		
ME	Montenegro		Yes
MS	Montserrat		Yes
MA	Morocco		
MZ	Mozambique		
MM	Myanmar		

Country Code	Country Name	Forward Origin	Return Origin
NA	Namibia		
NR	Nauru		
NP	Nepal		
DZ	Algeria		
AN	Netherlands Antilles		
NC	New Caledonia		
NZ	New Zealand	Yes	Yes
NI	Nicaragua		Yes
NE	Niger		
NG	Nigeria		
NU	Niue		
NF	Norfolk Island		
MP	Northern Mariana Islands		
NO	Norway	Yes	Yes
OM	Oman		
PK	Pakistan		
PW	Palau		Yes
PS	Palestinian Territory, Occupied		
PA	Panama	Yes	Yes
PG	Papua New Guinea		
PY	Paraguay		Yes
PE	Peru		Yes
PH	Philippines	Yes	Yes
PN	Pitcairn		
GN	Guinea		
GG	Guernsey	Yes	Yes
GW	Guinea-Bissau		
QA	Qatar		
RE	Réunion		
RO	Romania	Yes	Yes
IS	Iceland		Yes

Country Code	Country Name	Forward Origin	Return Origin
RW	Rwanda		
SH	Saint Helena		
KN	Saint Kitts and Nevis		Yes
LC	Saint Lucia		Yes
PM	Saint Pierre and Miquelon		
VC	Saint Vincent and The Grenadines		Yes
WS	Samoa		
SM	San Marino		Yes
ST	Sao Tome and Principe		
SA	Saudi Arabia		Yes
SN	Senegal		
RS	Serbia		Yes
SC	Seychelles		
SL	Sierra Leone		
IR	Iran, Islamic Republic of		
SK	Slovakia		Yes
SI	Slovenia		Yes
SB	Solomon Islands		
SO	Somalia		
ZA	South Africa		Yes
GS	South Georgia and The South Sandwich Islands		
AX	Åland Islands		
LK	Sri Lanka		Yes
SD	Sudan		
SR	Suriname		Yes
SJ	Svalbard and Jan Mayen		
SZ	Swaziland		
IM	Isle of Man		
IL	Israel	Yes	Yes
SY	Syrian Arab Republic		
KI	Kiribati		

Country Code	Country Name	Forward Origin	Return Origin
TJ	Tajikistan		
TZ	Tanzania, United Republic of		
TH	Thailand	Yes	Yes
TL	Timor-Leste		
TG	Togo		
TK	Tokelau		
TO	Tonga		
TT	Trinidad and Tobago		
TN	Tunisia		Yes
TR	Turkey	Yes	Yes
TM	Turkmenistan		
TC	Turks and Caicos Islands		Yes
TV	Tuvalu		
UG	Uganda		
UA	Ukraine		Yes
AE	United Arab Emirates		
KP	Korea, Democratic Peoples Republic of		
LS	Lesotho		
UM	United States Minor Outlying Islands		
UY	Uruguay		Yes
UZ	Uzbekistan		
VU	Vanuatu		
VE	Venezuela		Yes
VN	Viet Nam	Yes	
VG	Virgin Islands, British		
VI	Virgin Islands, U.S.		Yes
WF	Wallis and Futuna		
EH	Western Sahara		
YE	Yemen		
ZM	Zambia		
ZW	Zimbabwe		

Appendix E - Currency Codes

UPS currency code abbreviations generally follow the recommendations of the International Standards Organization, which publishes a list of currency abbreviations in ISO Standard 4217, for which the latest information is available from the ISO web site. Exceptions are noted in bold in the table below.

Note that countries sometimes change their official currency. UPS may require some time after the introduction of a new currency before it can fully support that currency. In addition, UPS may continue to support the older currency for an interim period in order to provide backwards compatibility. UPS may also require the use of currencies other than the official currency for some countries. For the latest information, please contact your UPS Developer API representative.

Country/Region	Currency Name	Currency Code
Afghanistan	Afghani	AFN
Albania	Lek	ALL
Algeria	Algerian Dinar	DZD
American Samoa	US Dollar	USD
Andorra	Euro	EUR
Angola	Kwanza	AOA
Anguilla	East Caribbean Dollar	XCD
Antigua And Barbuda	East Caribbean Dollar	XCD
Argentina	Argentine Peso	ARS
Armenia	Armenian Dram	AMD
Aruba	Aruban Guilder	AWG
Australia	Australian Dollar	AUD
Austria	Euro	EUR
Azerbaijan	Azerbaijanian Manat	AZN
Bahamas	Bahamian Dollar	BSD
Bahrain	Bahraini Dinar	BHD
Bangladesh	Taka	BDT
Barbados	Barbados Dollar	BBD
Belarus	Belarussian Ruble	BYR
Belgium	Euro	EUR
Belize	Belize Dollar	BZD
Benin	CFA Franc BCEAO	XOF
Bermuda	Bermudian Dollar (customarily known as Bermuda Dollar)	BMD
Bhutan	Indian Rupee	INR
Bhutan	Ngultrum	BTN
Bolivia	Boliviano	BOB
Mvdol	BOV	

Country/Region	Currency Name	Currency Code
Bosnia and Herzegovina	Convertible Marks	BAM
Botswana	Pula	BWP
Bouvet Island	Norwegian Krone	NOK
Brazil	Brazilian Real	BRL
British Indian Ocean Territory	US Dollar	USD
Brunei Darussalam	Brunei Dollar	BND
Bulgaria	Bulgarian Lev	BGN
Burkina Faso	CFA Franc BCEAO	XOF
Burundi	Burundi Franc	BIF
Cambodia	Riel	KHR
Cameroon	CFA Franc BEAC	XAF
Canada	Canadian Dollar	CAD
Cape Verde	Cape Verde Escudo	CVE
Cayman Islands	Cayman Islands Dollar	KYD
Central African Republic	CFA Franc BEAC	XAF
Chad	CFA Franc BEAC	XAF
Chile	Chilean Peso	CLP
Unidades de formento	CLF	
China	Yuan Renminbi	RMB
Christmas Island	Australian Dollar	AUD
Cocos (Keeling) Islands	Australian Dollar	AUD
Colombia	Colombian Peso	COP
Unidad de Valor Real	COU	
Comoros	Comoro Franc	KMF
Congo	CFA Franc BEAC	XAF
Congo, The Democratic Republic of	Franc Congolais	CDF
Cook Islands	New Zealand Dollar	NZD
Costa Rica	Costa Rican Colon	CRC
Côte Divoire	CFA Franc BCEAO	XOF
Croatia	Croatian Kuna	HRK
Cuba	Cuban Peso	CUP

Country/Region	Currency Name	Currency Code
Cyprus	Euro	EUR
Czech Republic	Czech Koruna	CZK
Denmark	Danish Krone	DKK
Djibouti	Djibouti Franc	DJF
Dominica	East Caribbean Dollar	XCD
Dominican Republic	Dominican Peso	DOP
Ecuador	US Dollar	USD
Egypt	Egyptian Pound	EGP
El Salvador	El Salvador Colon	SVC
US Dollar	USD	
Equatorial Guinea	CFA Franc BEAC	XAF
Eritrea	Nakfa	ERN
Estonia	Kroon	EEK
Ethiopia	Ethiopian Birr	ETB
Falkland Islands (Malvinas)	Falkland Islands Pound	FKP
Faroe Islands	Danish Krone	DKK
Fiji	Fiji Dollar	FJD
Finland	Euro	EUR
France	Euro	EUR
French Guiana	Euro	EUR
French Polynesia	CFP Franc	XPF
French Southern Territories	Euro	EUR
Gabon	CFA Franc BEAC	XAF
Gambia	Dalasi	GMD
Georgia	Lari	GEL
Germany	Euro	EUR
Ghana	Cedi	GHC
Gibraltar	Gibraltar Pound	GIP
Greece	Euro	EUR
Greenland	Danish Krone	DKK
Grenada	East Caribbean Dollar	XCD

Country/Region	Currency Name	Currency Code
Guadeloupe	Euro	EUR
Guam	US Dollar	USD
Guatemala	Quetzal	GTQ
Guernsey	Pound Sterling	GBP
Guinea	Guinea Franc	GNF
Guinea-Bissau	Guinea-Bissau Peso	GWP
CFA Franc BCEAO	XOF	
Guyana	Guyana Dollar	GYD
Haiti	Gourde	HTG
Haiti	US Dollar	USD
Heard Island ond Mcdonald Islands	Australian Dollar	AUD
Holy See (Vatican City State)	Euro	EUR
Honduras	Lempira	HNL
Hong Kong	Hong Kong Dollar	HKD
Hungary	Forint	HUF
Iceland	Iceland Krona	ISK
India	Indian Rupee	INR
Indonesia	Rupiah	IDR
Iran (Islamic Republic of)	Iranian Rial	IRR
Iraq	Iraqi Dinar	IQD
Ireland	Euro	EUR
Israel	New Israeli Sheqel	ILS
Italy	Euro	EUR
Jamaica	Jamaican Dollar	JMD
Japan	Yen	JPY
Jersey	Pound Sterling	GBP
Jordan	Jordanian Dinar	JOD
Kazakhstan	Tenge	KZT
Kenya	Kenyan Shilling	KES
Kiribati	Australian Dollar	AUD
Korea, Democratic Peoples Republic of	North Korean Won	KPW

Country/Region	Currency Name	Currency Code
Korea, Republic of	Won	KRW
Kuwait	Kuwaiti Dinar	KWD
Kyrgyzstan	Som	KGS
Lao Peoples Democratic Republic	Kip	LAK
Latvia	Latvian Lats	LVL
Lebanon	Lebanese Pound	LBP
Lesotho	Rand	ZAR
Loti	LSL	
Liberia	Liberian Dollar	LRD
Libyan Arab Jamahiriya	Libyan Dinar	LYD
Liechtenstein	Swiss Franc	CHF
Lithuania	Lithuanian Litas	LTL
Luxembourg	Euro	EUR
Macao	Pataca	MOP
Macedonia, The Former Yugoslav Republic of	Denar	MKD
Madagascar	Malagascy Ariary	MGA
Malawi	Kwacha	MWK
Malaysia	Malaysian Ringgit	MYR
Maldives	Rufiyaa	MVR
Mali	CFA Franc BCEAO	XOF
Malta	Euro	EUR
Marshall Islands	US Dollar	USD
Martinique	Euro	EUR
Mauritania	Ouguiya	MRO
Mauritius	Mauritius Rupee	MUR
Mayotte	Euro	EUR
Mexico	Mexican Peso	MXN
Mexican Unidad de Inversion (UID)	MXV	
Micronesia (Federated States of)	US Dollar	USD
Moldova, Republic of	Moldovan Leu	MDL
Monaco	Euro	EUR

Country/Region	Currency Name	Currency Code
Mongolia	Tugrik	MNT
Montenegro	Euro	EUR
Montserrat	East Caribbean Dollar	XCD
Morocco	Moroccan Dirham	MAD
Mozambique	Metical	MZN
Myanmar	Kyat	MMK
Namibia	Rand	ZAR
Namibian Dollar	NAD	
Nauru	Australian Dollar	AUD
Nepal	Nepalese Rupee	NPR
Netherlands	Euro	EUR
Netherlands Antilles	Netherlands Antillian Guilder	ANG
New Caledonia	CFP Franc	XPF
New Zealand	New Zealand Dollar	NZD
Nicaragua	Cordoba Oro	NIO
Niger	CFA Franc BCEAO	XOF
Nigeria	Naira	NGN
Niue	New Zealand Dollar	NZD
Norfolk Island	Australian Dollar	AUD
Northern Mariana Islands	US Dollar	USD
Norway	Norwegian Krone	NOK
Oman	Rial Omani	OMR
Pakistan	Pakistan Rupee	PKR
Palau	US Dollar	USD
Panama	Balboa	PAB
US Dollar	USD	
Papua New Guinea	Kina	PGK
Paraguay	Guarani	PYG
Peru	Nuevo Sol	PEN
Philippines	Philippine Peso	PHP
Pitcairn	New Zealand Dollar	NZD

Country/Region	Currency Name	Currency Code
Poland	Zloty	PLN
Portugal	Euro	EUR
Puerto Rico	US Dollar	USD
Qatar	Qatari Rial	QAR
Réunion	Euro	EUR
Romania	New Leu	RON
Russian Federation	Russian Ruble	RUB
Rwanda	Rwanda Franc	RWF
Saint Helena	Saint Helena Pound	SHP
Saint Kitts and Nevis	East Caribbean Dollar	XCD
Saint Lucia	East Caribbean Dollar	XCD
Saint Pierre and Miquelon	Euro	EUR
Saint Vincent and The Grenadines	East Caribbean Dollar	XCD
Samoa	Tala	WST
San Marino	Euro	EUR
São Tome and Principe	Dobra	STD
Saudi Arabia	Saudi Riyal	SAR
Senegal	CFA Franc BCEAO	XOF
Serbia	Serbian Dinar	RSD
Seychelles	Seychelles Rupee	SCR
Sierra Leone	Leone	SLL
Singapore	Singapore Dollar	SGD
Slovakia	Euro	EUR
Slovenia	Euro	EUR
Solomon Islands	Solomon Islands Dollar	SBD
Somalia	Somali Shilling	SOS
South Africa	Rand	ZAR
Spain	Euro	EUR
Sri Lanka	Sri Lanka Rupee	LKR
Sudan	Sudanese Dinar	SDD
Suriname	Surinam Dollar	SRD

Country/Region	Currency Name	Currency Code
Svalbard and Jan Mayen	Norwegia n Krone	NOK
Swaziland	Lilangeni	SZL
Sweden	Swedish Krona	SEK
Switzerland	Swiss Franc	CHF
WIR Franc	CHW	
WIR Euro	CHE	
Syrian Arab Republic	Syrian Pound	SYP
Taiwan, Province of China	New Taiwan Dollar	TWD
Tajikistan	Somoni	TJS
Tanzania, United Republic of	Tanzanian Shilling	TZS
Thailand	Baht	THB
Timor-Leste	US Dollar	USD
Togo	CFA Franc BCEAO	XOF
Tokelau	New Zealand Dollar	NZD
Tonga	Paanga	TOP
Trinidad And Tobago	Trinidad and Tobago Dollar	TTD
Tunisia	Tunisian Dinar	TND
Turkey	New Turkish Lira	TRY
Turkmenistan	Manat	TMM
Turks And Caicos Islands	US Dollar	USD
Tuvalu	Australian Dollar	AUD
Uganda	Uganda Shilling	UGX
Ukraine	Hryvnia	UAH
United Arab Emirates	UAE Dirham	AED
United Kingdom	Pound Sterling	GBP
United States	US Dollar	USD
United States Minor Outlying Islands	US Dollar	USD
Uruguay	Peso Uruguayo	UYU
Uruguay Peso en Unidades Indexadas	UYI	
Uzbekistan	Uzbekistan Sum	UZS
Vanuatu	Vatu	VUV

Country/Region	Currency Name	Currency Code
Venezuela	Bolivar	VEB
Viet Nam	Dong	VND
Virgin Islands (British)	US Dollar	USD
Virgin Islands (US)	US Dollar	USD
Wallis And Futuna	CFP Franc	XPF
Western Sahara	Moroccan Dirham	MAD
Yemen	Yemeni Rial	YER
Zambia	Kwacha	ZMK
Zimbabwe	Zimbabwe Dollar	ZWD

Appendix F – Service Codes

UPS offers a wide variety of package delivery services. The following tables list the service code values for these services; they are ordered by the origin of the shipment. The final table lists service codes for freight shipments. For more information on UPS services, refer to the latest *UPS Rate and Service Guide* available at http://www.ups.com.

Service Code	Description	Category
1	UPS Next Day Air®	United States Domestic Shipments
2	UPS Second Day Air®	United States Domestic Shipments
3	UPS Ground	United States Domestic Shipments
12	UPS Three-Day Select®	United States Domestic Shipments
13	UPS Next Day Air Saver®	United States Domestic Shipments
14	UPS Next Day Air® Early A.M. SM	United States Domestic Shipments
59	UPS Second Day Air A.M.®	United States Domestic Shipments
65	UPS Saver	United States Domestic Shipments
1	UPS Next Day Air®	Shipments Originating in United States
2	UPS Second Day Air®	Shipments Originating in United States
3	UPS Ground	Shipments Originating in United States
7	UPS Worldwide ExpressSM	Shipments Originating in United States
8	UPS Worldwide ExpeditedSM	Shipments Originating in United States
11	UPS Standard	Shipments Originating in United States
12	UPS Three-Day Select®	Shipments Originating in United States
14	UPS Next Day Air® Early A.M. SM	Shipments Originating in United States
54	UPS Worldwide Express PlusSM	Shipments Originating in United States
59	UPS Second Day Air A.M.®	Shipments Originating in United States
65	UPS Saver	Shipments Originating in United States
1	UPS Next Day Air®	Shipments Originating in Puerto Rico
2	UPS Second Day Air®	Shipments Originating in Puerto Rico
3	UPS Ground	Shipments Originating in Puerto Rico
7	UPS Worldwide ExpressSM	Shipments Originating in Puerto Rico
8	UPS Worldwide ExpeditedSM	Shipments Originating in Puerto Rico
14	UPS Next Day Air® Early A.M. SM	Shipments Originating in Puerto Rico
54	UPS Worldwide Express PlusSM	Shipments Originating in Puerto Rico

Service Code	Description	Category
65	UPS Saver	Shipments Originating in Puerto Rico
1	UPS Express	Shipments Originating in Canada
7	UPS Worldwide ExpressSM	Shipments Originating in Canada
8	UPS Worldwide ExpeditedSM	Shipments Ori ginating in Canada
11	UPS Standard	Shipments Originating in Canada
12	UPS Three-Day Select®	Shipments Originating in Canada
13	UPS Saver SM	Shipments Originating in Canada
14	UPS Express Early A.M. SM	Shipments Originating in Canada
7	UPS Express	Shipments Originating in Mexico
8	UPS ExpeditedSM	Shipments Originating in Mexico
11	UPS Standard	Shipments Originating in Mexico
54	UPS Express Plus	Shipments Originating in Mexico
65	UPS Saver	Shipments Originating in Mexico
7	UPS Express	Polish Domestic Shipments
8	UPS ExpeditedSM	Polish Domestic Shipments
11	UPS Standard	Polish Domestic Shipments
54	UPS Worldwide Express PlusSM	Polish Domestic Shipments
65	UPS Saver	Polish Domestic Shipments
82	UPS Today StandardSM	Polish Domestic Shipments
83	UPS Today Dedicated CourrierSM	Polis h Domestic Shipments
85	UPS Today Express	Polish Domestic Shipments
86	UPS Today Express Saver	Polish Domestic Shipments
7	UPS Express	Shipments Originating in the European Union
8	UPS ExpeditedSM	Shipments Originating in the European Union
11	UPS Standard	Shipments Originating in the European Union
54	UPS Worldwide Express PlusSM	Shipments Originating in the European Union
65	UPS Saver	Shipments Originating in the European Union
7	UPS Express	Shipments Originating in Other Countries
8	UPS Worldwide ExpeditedSM	Shipments Originating in Other Countries

Service Code	Description	Category
11	UPS Standard	Shipments Originating in Other Countries
54	UPS Worldwide Express PlusSM	Shipments Originating in Other Countries
65	UPS Saver	Shipments Originating in Other Countries

Appendix G – Reference Number Codes

Shipments and packages may include a reference number. The type of reference number may be indicated by a reference number code. The following table lists the reference number code values.

Code	Description
AJ	Accounts Receivable Customer Account
AT	Appropriation Number
BM	Bill of Lading Number
9V	Collect on Delivery (COD) Number
ON	Dealer Order Number
DP	Department Number
3Q	Food and Drug Administration (FDA) Product Code
IK	Invoice Number
MK	Manifest Key Number
MJ	Model Number
PM	Part Number
PC	Production Code
PO	Purchase Order Number
RQ	Purchase Request Number
RZ	Return Authorization Number
SA	Salesperson Number
SE	Serial Number
ST	Store Number
TN	Transaction Reference Number
EI	Employer's ID Number
TJ	Federal Taxpayer ID No.
SY	Social Security Number

Appendix H - Paperless Invoice Supported Countries

The following table lists those countries that support paperless (electronic submission) invoices. **NOTE: Although a country may be prepared to accept Paperless Invoices, it is not guaranteed that all origins are allowed to send Paperless Invoices to such a country.**

Paperless Invoice countries are updated quarterly however guides are updated semi-annually in January and July. Changes may occur between releases of the guide.

Country
Albania
Angola
Argentina
Austria
Bahamas
Barbados
Belarus
Belgium
Bermuda
Bhutan
Bolivia
Bosnia
Brazil
Canada
China
Colombia
Costa Rica
Czech Republic
Denmark
Djibouti
Dominican Rep
Ecuador
El Salvador
Estonia
Finland
France
Gambia

Country
Georgia
Germany
Great Britain
Greece
Guam
Guatemala
Guyana
Honduras
Hong Kong
Hungary
India
Ireland
Israel
Italy
Jamaica
Japan
Kazakhstan
Kirghizia
Latvia
Libya
Lithuania
Luxembourg
Macau
Malaysia
Malta
Marshall Islands
Mauritania
Mexico
Nepal
Netherland Antilles
Netherlands

Country
New Zealand
Nicaragua
Norway
Panama
Paraguay
Peru
Philippines
Poland
Portugal
Puerto Rico
Reunion Is
Saudi Arabia
Serbia and Montenegro
Singapore
Slovenia
South Korea
Spain
Sweden
Taiwan
Tanzania
Thailand
Timor Leste
Trinidad and Tobago
United Arab Emirates
United States
Uruguay
Uzbekistan

Appendix I - International Forms Preference Criteria

Preference criteria are required in North American Free Trade Agreement Certificate of Origin (NAFTA CO) documents. The following table lists the defined criteria and their use.

Criteria	Meaning
A	The good is "wholly obtained or produced entirely" in the territory of one ormore of the NAFTA countries as referenced in Article 415.Note: The purchase of a good in the territory does not necessarily render it"wholly obtained or produced." If the good is an agricultural good, see alsocriterion F and Annex 703.2. (Reference: Article 401(a) and 415)
B	The good is produced entirely in the territory of one or more of the NAFTAcountries and satisfies the specific rule of origin, set out in Annex 401, thatapplies to its tariff classification. The rule may include a tariff classificationchange, regional value-content requirement, or a combination there-of. Thegood must also satisfy all other applicable requirements of Chapter Four. If thegood is an agricultural good, see also criterion F and Annex 703.2. (Reference:Article 401(b))
C	The good is produced entirely in the territory of one or more of the NAFTAcountries exclusively from originating materials. Under this criterion, one ormore of the materials may not fall within the definition of "wholly produced orobtained," as set out in Article 415. All materials used in the production of thegood must qualify as "originating" by meeting the rules of Article 401(a)through (d). If the good is an agricultural good, see also criterion F and Annex703.2. Reference: Article 401(c).
D	Goods are produced in the territory of one or more of the NAFTA countries butdo not meet the applicable rule of origin, set out in Annex 401, because certainnon-originating materials do not undergo the required change in tariffclassification. The goods do nonetheless meet the regional value-contentrequirement specified in Article 401 (d). This criterion is limited to thefollowing two circumstances: (1) The good was imported into the territory of aNAFTA country in an unassembled or disassembled form but was classified asan assembled good, pursuant to H.S. General Rule of Interpretation 2(a). or (2).The good incorporated one or more non-originating materials, provided for asparts under the H.S., which could not undergo a change in tariff classificationbecause the heading provided for both the good and its parts and was notfurther subdivided into subheadings, or the subheading provided for both thegood and its parts and was not further subdivided.Note: This criterion does not apply to Chapters 61 through 63 of the H.S.(Reference: Article 401(d))
E	Certain automatic data processing goods and their parts, specified in Annex308.1, that do not originate in the territory are considered originating uponimportation into the territory of a NAFTA country from the territory of anotherNAFTA country when the most-favored-nation tariff rate of the good conformsto the rate established in Annex 308.1 and is common to all NAFTA countries.(Reference: Annex 308.1)
F	The good is an originating agricultural good under preference criterion A, B, orC above and is not subject to a quantitative restriction in the importing NAFTAcountry because it is a "qualifying good" as defined in Annex 703.2, Section Aor B (please specify). A good listed in Appendix 703.2B.7 is also exempt fromquantitative restrictions and is eligible for NAFTA preferential tariff treatmentif it meets the definition of "qualifying good" in Section A of Annex 703.2. Note: This criterion does not apply to goods that wholly originate in Canada orthe United States and are imported into either country.Note: A tariff rate quota is not a quantitative restriction.

Appendix J - Hong Kong District Codes

The following table lists the codes UPS uses to represent Hong Kong districts.

Code	District
SD1	ABERDEEN
AD	ADMIRALTY
SD2	AP LEI CHAU
CB	CAUSEWAY BAY
CD	CENTRAL
KT1	CHA KWO LING
CW1	CHAI WAN
CLK1	CHAK LAP KOK
ISL1	CHEUNG CHAU
CSW	CHEUNG SHA WAN
CH	CHOI HUNG
SD3	CHUNG HOM KOK
DH	DAIMOND HILL
SD4	DEEP WATER BAY
ISL2	DISCOVERY BAY
FL	FANLING
NP1	FORTRESS HILL
ST1	FOTAN
HV	HAPPY VALLEY
HMT	HO MAN TIN
HH	HUNGHOM
JD	JORDAN
NT1	KAM TIN
WD1	KENNEDY TOWN
KLB	KOWLOON BAY
KLC	KOWLOON CITY
KLT	KOWLOON TONG

Code	District
KC1	KWAI CHUNG
KC2	KWAI FONG
KC3	KWAI HING
KT2	KWUN TONG
LCK1	LAI CHI KOK
LCK2	LAI KING
LT3	LAM TIN
ISL3	LAMMA ISLAND
ISL4	LANTAU ISLAND
LF1	LOK FU
ST2	MA ON SHAN
LCK3	MEI FOO
SD5	MIDDLE BAY
ML1	MID-LEVEL
MK1	MONGKOK
WD2	MOUNT DAVIS
NTK	NGAU TAU KOK
NP2	NORTH POINT
ISL5	PING CHAU
SD6	POK FU LAM
MK2	PRINCE EDWARD
QB	QUARRY BAY
SD7	REPULSE BAY
SK	SAI KUNG
WD3	SAI WAN
SWH	SAI WAN HO
WD4	SAI YING PUN
SPK	SAN PO KONG
SS1	SHA TAU KOK
SSP	SHAM SHUI PO
NT2	SHAM TSENG

Code	District
ST3	SHATIN
SKW	SHAU KEI WAN
SKM	SHEK KIP MEI
NT4	SHEK KONG
SD8	SHEK O
WD5	SHEK TONG TSUI
SS2	SHEUNG SHUI
SW	SHEUNG WAN
SL	SHUN LEE
ST4	SIU LEK YUEN
CW2	SIU SAI WAN
SD9	SOUTH BAY
SD10	SOUTHERN DISTRICT
SD11	STANLEY
ML2	TAI HANG
TKT	TAI KOK TSUI
NT5	TAI LAM CHUNG
TP	TAI PO
SD12	TAI TAM
ST5	TAI WAI
NT6	TAP SHEK KOK
ML3	THE PEAK
NP3	TIN HAU
NT7	TIN SHUI WAI
SD13	TIN WAN
TKW	TO KWA WAN
TKO	TSEUNG KWAN O
TST1	TSIM SHA TSUI
TST2	TSIM SHA TSUI EAST
NT8	TSING LUNG TAU
TY	TSING YI

Code	District
TW	TSUEN WAN
TWS	TSZ WAN SHAN
NT9	TUEN MUN
CLK2	TUNG CHUNG
SD14	WAH FU
WC	WANCHAI
LF2	WANG TAU HOM
WD6	WESTERN DISTRICT
SD15	WONG CHUK HANG
WTS	WONG TAI SIN
YMT	YAU MA TEI
KT3	YAU TONG
NT10	YUEN LONG

Appendix K - Export License Exception Codes

License exception codes may be used in lieu of an export license in Shipper Export Declaration (SED) forms. The following table lists the defined export codes.

Code	License Exception
AGR	Established for agricultural commodities to permit exports and re-exports to Cuba that is not specifically identified on the Commerce Control List (CCL) and is classified as EAR99.
APR	Items for export or re-export not controlled for nuclear nonproliferation, missile technology or crime control.
AVS	U.S. aircraft or foreign sojourn into foreign country.
BAG	Individual or exporting carriers crew members baggage.
CIV	National security items for civil end users.
CTP	Computer and parts of.
ENC	Encrypted software and hardware - financial institutions.
GBS	Export or re-export of Country Group B; controlled for national security reasons.
GFT	Gift shipments; packages to individuals, religious, charitable or education institutions, donations of basic needs.
GOV	Government shipments, covers shipments for U.S. government agencies, personnel or of cooperating foreign governments
KMI	Encrypted software and hardware.
LVS	Value of shipments limited.
NLR	No license required.
RPL	Servicing and replacement of parts and equipment, one for one replacement parts service or replacement of equipment.
TMP	Temporary exports, export and re-export of items temporary in U.S., export and re-export of beta test software.
TSPA	Software or technology outside the scope of export regulations.
TSR	Technology and software, national security reason, Country Group B.
TSU	Technology and software shipments, of basic requirements, data supporting prospective or actual bids, offers to sell, lease or supply an item. Software update for fixing programs, mass marketed software.

Sample Shipping and Return Labels

The following figures are examples of UPS shipping and return labels.

Figure 1. Sample Shipping Label

SHIP FROM ATTN NAME
1234567890
>SPIDEY WEB DESIGNS
100 MAIN STREET
PLANO TX 75093

1 LBS

1 OF 1

RS

SHIP TO:

MODINE
1234567890 1234
GUNTZ AUTO REPAIR
442 GLENWOOD AVE
442 GLENWOOD AVE
442 GLENWOOD AVE
ATLANTA GA 30076

GA 301 9-01

UPS NEXT DAY AIR

1

TRACKING #: 1Z 123 S01 84 9399 4068

BILLING: 3RD PARTY
DESC: International Goods
RETURN SERVICE

XX01.02.09.01   NV45 64.0A 02/2007

Figure 2. Sample Return Label

2 of 2

Shipping and Tracking Numbers for Testing

UPS has set aside several shipping identification and tracking numbers to help developers test their applications. These special numbers are only valid with the Customer Integration Environment at wwwcie.ups.com. The following table lists those special numbers and describes the results that developers should expect **when attempting a VoidShipmentRequest**. For each test case, the first number listed is a shipment identification number; additional numbers, if present, are tracking numbers.

Note that only these numbers may be used in the Customer Integration Environment when voiding shipments.

NUMBER(S)	EXPECTED RESULT
1ZISDE016691676846	A successful XML response will be returned for a shipment level void request.
1Z2220060290602143	A successful XML response will be returned for a shipment level void request.
1Z2220060294314162 and Tracking Number 1Z2220060291994175	A successful XML response will be returned for a package level void request. The request will void the package in the shipment.
1Z2220060292690189 and Tracking Number 1Z2220060292002190	A successful XML response will be returned for a package level void request. The request will void the package in the shipment.
1ZISDE016691609089 with Tracking Numbers 1ZISDE016694068891 and 1ZISDE016690889305	A successful XML response will be returned for a package level void request. The request will void all the packages.
1Z2220060290530202 with Tracking Number 1Z2220060293874210 and 1Z2220060292634221	A successful XML response will be returned with a partial void for a package level void request. The request will void package 1Z2220060293874210 but package 1Z2220060292634221 cannot be voided.

Frequently Asked Questions – Shipping Package

API	Category	Question	Answer
Shipping	Account Based Rates (ABR) or Negotiated Rates	Do the Developer APIs support ABR also known as Negotiated Rates?	Yes. Shipping and Rating APIs both XML & Web Service Package Yes. LTL - Shipping & Rating APIs (only available in Web Services)
Shipping	CWT and Shipping API	Is there a solution using the ship API (or other solution) that would prompt UPS billing or PLD upload or other to aggregate single piece packages into hundredweight pricing (shipment) after the package has been processed?	Unfortunately, you are correct, there is no solution in place for the Ship API. In order to obtain the CWT price with the Ship API, the pkgs would have to be processed as one shipment and include the rates tags to receive the hundredweight rates.
Shipping	Account Based Rates (ABR) or Negotiated Rates	Is there a delay in activating a new or modified account in ABR for Rating or Shipping APIs?	New Contracts or Plans: ABR will not reflect performance-tiered incentives until Monday of the second effective week of a new contract. This is a side effect caused by the way our Billing systems behave during the first week of a new contract. It requires one bill closeout to calculate the first week's volume. Basic incentives are available the first effective week. Re-started Contracts ABR will reflect basic and performance tiered incentives within 24 hours after the contract is re-started. Change to rolling average (for example, from 52 weeks to 13 weeks): ABR will not reflect performance-tiered incentives until Monday of the second effective week of a new contract. Addition of New Services to Existing Contracts: The new services on a contract will follow the timeframe described

API	Category	Question	Answer
			above for new contracts. Existing services on the contract will not be impacted and therefore ABR will not be impacted. Addition of New Accounts to Existing Contracts: ABR will reflect all incentives from the newly attached contract the following Monday. Accounts that were already on the existing contract are not impacted by the addition of new accounts. For new ABR customers (or a new account with an existing ABR customer), please set expectations that they will see only basic incentives during week 1 and all incentives at the start of week 2. Depending on the business processes that will use ABR, you may wish to suggest that they wait until Week 2 to start using the ABR rates. For existing ABR customers, please inform them that new services added to an existing contract will have the same delays as described above for a new contract, but that existing services on the contract would continue rating with ABR uninterrupted. For WorldShip, please consider a workaround by using the CCC for one week to estimate the expected performance tier and then remove the estimates CCC at the start of the second week. Because the CCC is a handling charge editor it is granular to the service, option, or surcharge, but not to a lane, zone, or weight. Important: All rate updates in WorldShip are automatic. There is no need to either create or re-enter a new rate access code.

API	Category	Question	Answer
Shipping	Address Validation	How do I turn off validation of addresses with the Shipping API?	The value within the "ShipmentRequest/Request/RequestOption" tag of the request needs to be "nonvalidate".
Shipping	Address Validation	What validation is the Shipping API using to validate addresses for US and International addresses?	Shipping API does not do ANY address validation at the street level only regional validation; city, state, country (postal code optional).
Shipping	UPS Account	How do I add a UPS account to myUPS ID account summary? It is stating that I have to have an invoice # and control ID.	As a means of securing customer information, when adding an account to their My UPS profile or enroll for electronic billing options or Quantum View, customers are currently prompted to authenticate their account by entering an invoice number, invoice amount, and the invoice date from one of their last three billing cycles along with some other authentication items.Effective September 29, 2009, the Account Invoice Authentication (AIA) process was enhanced for My UPS and now requires customers to enter, in addition to the information listed earlier, the Control ID located just below the shipper number on their invoice. This enhancement is an additional layer of security to protect our customer's information. The Control ID is currently included in the following U.S. and Canada Invoice Media types:• Online PDF Images• EDI Domestic and Import• Hard Copy Invoices Since Control ID is not visible to UPSers internally, ECTS will be unable to assist customers as they could in the past since the Control ID is not visible to the help desk. However, ECTS can assist the customer in obtaining a duplicate invoice by faxing it to their business.
Shipping	Negotiated Rates	How do get access to negotiated Package rates?	Contact your Account Representative to obtain negotiated rates through the UPS Developer Kit - Developer APIs.

API	Category	Question	Answer
Shipping	Fuel Surcharge	Is the Fuel Surcharge listed as a separate line item in the response for the Rating API for LTL?	Yes. The fuel surcharge is listed as a separate line item within the response.
Shipping	Haz Mat - Dry Ice	Does the Shipping API for Package support the Dry Ice indicator?	No. The Shipping API does not support Hazardous Materials nor Dry Ice at this time.
Shipping	99 Account Number Limitation	How do I associate more than 99 account numbers for use with the Shipping/Rating APIs?	1) Shipping or Rating Package APIs require user ID, user PW, UPS Account and validates that the account number belongs to the user ID provided within the request.Answer: The Shipping or Rating APIs require that the account (shipper) number and User ID used in the XML request are associated within the My UPS Account summary of the User ID. This can be accomplished by logging in to UPS.com and navigating to [MyUPS]->[Manage My UPS]->[Account Summary]->[Add a UPS Account]. IMS validates the User ID/password combination. Please see "How do I add an account number to myUPS ID?" FAQ for further information.2) Ship API requires an Access Key and validates only that the access key exists.Answer: The Shipping or Rating APIs validate that the access key exists and that it is approved for the UPS Developer APIs being used.
Shipping	Returns	Does the Shipping API support international returns and returns in international countries where the Shipping API is supported?	Yes
Shipping	Print Return Labels	For the print return label option, if a Yahoo merchant needs to reprint the return label, how much time does he have? Is it 10 days after the initial request?	UPS do not provide a mechanism to "reprint" a Print Return Label (PRL) the vendor must save the label locally if they wish to reprint. Only the ERL provides that capability.

API	Category	Question	Answer
Shipping	Delivery Intercept	Is UPS Delivery Intercept available through the Shipping API?	No.
Shipping	Shipper Release	Is Shipper Release available with the Shipping API?	Yes.
Shipping	Resi/Comm Indicator	Which APIs provide address classification?	Shipping, Rating, and Address Validation Street Level provide address classification (residential/commercial). Time in Transit and Address Validation do NOT provide classification.
Shipping	Returns	Is there a URL ONLY capability for returns within the Shipping API?	No.
Shipping	Returns	Can a Return be voided? If yes, what is the cutoff timing to void a return?	A customer can void an RS label up to 2am/3am the following night (e.g. Monday request, Tuesday 2am/3am void cutoff). This is based on when the batch process starts sending RS1/RS3 labels to the centers. After the cutoff, the customer will not be able to void, and the UPS agent is also not able to void. If the void is completed by the cutoff time then the customer will not be charged.
Shipping	Rural & Super Rural	Does the Shipping API - Package return Rural and Super Rural charges?	Yes the Shipping API will return rural and super rural charges but these charges are imbedded into the transportation charges.
Shipping	128 Reference Number Barcode	Can the Shipping API - Package generate a 128 Reference number barcode below the 1Z? Can it generate a PDF417 Reference number barcode below the 1Z?	Yes. A 128 Reference number barcode can be generated below the 1z number, as the Shipping API can print a barcode in reference field 1. The Shipping API - Package does not create a PDF417 as they are not required. The purpose of the PDF417 was as a backup in case the PLD did not transmit from a shipping system. That is not possible with the Shipping API - Package because a label is only returned after the receipt of PLD.
Shipping	Currency Conversion	Does the Shipping API - Package support conversion of Japanese Yen to US Dollars?	No. The Shipping API - Package does not support currency conversions.

API	Category	Question	Answer
Shipping	Address Validation	Will the Shipping API provide validation for Japanese addresses with City and Country and no zip code?	No, the postal code must be included for validation.
Shipping	Dry Ice	Does the Shipping API - Package support Dry Ice shipments?	No.
Shipping	From Suite/Apt# on Label	How does a customer include the Suite/Apt# within "From" address on the label returned for the Shipping API - Package?	The customer needs to include the suite/apt # in delivery address lines 2 or 3 within the request.
Shipping	High Value Report	How does the Shipping API - Package work with High Values? Does the paperwork comeback as a GIF image and get printed on a thermal printer? Or, does the customer need to produce this themselves?	The High Value Report is returned in four formats outlined within the Shipping API - Package portion of the developer guide. The customer is required to successfully produce a High Value Report as a GIF image in the certification process. That information is also within the developer guide.
Shipping	Pickup request	Can a Pickup be requested through the Shipping API - Package?	For customers implementing the Shipping API - Package after January 2010 there will not be the Pickup request capability. The customer must request the Pickup API - Package and these requests are approved only after the customer has implemented and certified for the Shipping API - Package. There are exceptions to this business rule in cases where customers are using EDI, Host Access, Electronic Manifesting Tool, or Host Manifest Upload and these requests are reviewed and approved on a case by case basis. For customers who implemented the Shipping API - Package prior to January 2010 they can request a pickup but they will be charged for each request regardless of the service type shipped. This changed with the new Rate and Service Guide for January 2010. Please review the Rate & Service Guide for more details about pickup charges and services.

API	Category	Question	Answer
Shipping	Label/Receipt	Does the Shipping API - Package provide a label and receipt but does not email a receipt for the user nor provide a confirmation number?	Correct. There is no receipt provided. In addition, Ship API only provides the ability to have the label mailed for Return Service Electronic Return Labels, for forward shipments the customer needs to handle emailing the label programmatically on their side.
Shipping	Reprinting Labels	Can a customer using the Shipping API reprint a label?	Unfortunately at this time the Shipping API does not provide the ability to reprint labels. This being the case to review shipping history or reprint labels the customer will need to login to ups.com using the user id and password passed in their XML, then navigate to the shipping history section. From this section of the website the customer can review shipments and reprint labels.
Shipping	Shipping History	Can a customer using the Shipping API view shipping history through the API?	The Shipping API does not provide a 'shipping history'. However, to review shipping history or reprint labels that were manifested via the Shipping API - Package the customer needs to login to ups.com using the myUPS User ID and password passed in their XML request, then navigate to the shipping history section. From this section of the website the customer can review shipments and reprint labels.
Shipping	Oracle	Are there any known issues with implementing Oracle with the Shipping API - Package?	UPS is not aware of any issues customers have implementing the Shipping API - Package using Oracle at this time. The UPS Developer APIs are designed so that they can be implemented in almost any environment as long as the customer application can open a secure connection of SSL and perform an HTTP Post.
Shipping	Paperless Invoice	Does the Shipping API - Package support Paperless Invoice?	Yes. The developer guide for the Shipping API - Package lists the valid countries for paperless invoice. See the AdditionalDocumentIndicator Element within the Interface Spec within the developer guide. Once the shipment is processed an EDI (paperless invoice) or EDI PULL (paperless invoice and additional export document indicator) will appear on the bottom right corner of the label image returned in the ShipAcceptResponse label digest. This indicates that Paperless Invoicing has been requested.

API	Category	Question	Answer
Shipping	Paperless Invoice	Can a Paperless Invoice shipment be voided through the Shipping API - Package? If yes, what happens to the invoice information?	Yes a Paperless Invoice shipment can be voided via the Shipping API - Package. If a shipment is voided and consequently the package is never tendered to UPS, then the paperless invoice data that was uploaded with the shipment is not used to create an invoice image and it is eventually purged.
Shipping	Ref Number 1 - Text Values on Label	Can a customer implementing the Shipping API - Package "rename" reference value one through the API…the customer would like the label printout to read "parcel ID" instead of Reference #1?	There is some limited ability to control the label for the reference number 1 using the Shipping API - Package. This is done using code values which correspond to specific text which will precede the reference number value. For example the code PO may be supplied in the XML and "Purchase Order" will print on the label next to the reference number. A complete list of Reference Number codes is available within the Developers Guide. Unfortunately, "parcel ID" is not listed as an available value.
Shipping	Resi/Comm Indicator	How does a customer flag the rate to Ship TO a residential destination?	Use the ResidentialAddress element outlined within the Shipping API - Package developer guide.
Shipping	Negotiated Rates	I need to know what additional flags and their values we will need in the XML submission to get the rate base on our negotiated plan?	Yes…utilizing the NegotiatedRatesIndicator within the API request the customer can view negotiated rates, provided they have been set up by their Account Representative for negotiated rates (Account Based Rates or ABR) within UPS systems for internet applications.
Shipping	Voids	How are voids processed?	For forward and return movements send a VoidShipmentRequest element and UPS will return a VoidShipmentResponse. Forward movements must be voided within 28 days of shipping. Return shipments must be voided within 24hours.
Shipping	Third Party Third Country Billing	A customer needs to have shipments picked up from a medical facility in Germany and delivered to a consolidation office in Germany; shipments picked up from a medical facility in France and delivered to a consolidation office in France, etc. is this	Thank you for your email. In performing some additional testing we have found that there are some scenarios that do support third party third country billing. However, an Account Number based in the origin country is still required even if it is not getting billed. This account number is contained in the Shipper element. A separate ShipFrom container is utilized if you are shipping from a different location than where the Account Number is registered. However, both locations must

API	Category	Question	Answer
		possible using the Shipping API?	be in the same country. For example your Account Number is registered in Atlanta but you are shipping from New York.Having said that, the PaymentInformation container specifies who actually gets billed. This is where you can select billing options such as Prepaid, Third Party etc. The Third Party Account Number would be held in this element. We have tested a few successful third country scenarios so theoretically you could ship packages within France, Germany, etc and bill a US Account Number but you would still need an Account Number within each of those countries or else you would receive the below error message:<ErrorDescription>The ShipFrom country must be the same as the Shipper country</ErrorDescription>So it appears that the Tool can support third party third country billing for certain scenarios based on what we have tested. However, due to the fact that an Account Number is required for the origin country as well it may sort of defeat the purpose for some customers depending upon how they intend to use the Tool. They could potentially create Account Numbers for each country just for use in the XML and then never bill anything to those accounts. This is assuming that third party third country would even work for the specific country combinations in question. Without having real Account Numbers from these countries to test with it is difficult to say with any real certainty whether or not it would work. The specific scenario we tested was a shipment going from the US to Germany but being billed to a Canadian Account Number. This combination produced a successful response from the Tool.
Shipping	Tracking Numbers	Can a customer create their own tracking numbers using the Shipping API - Package?	No…a customer cannot create their own tracking numbers using the Shipping API - Package.
Shipping	WorldEase	Does the Shipping API - Package support WorldEase?	No…the Shipping API - Package does not support WorldEase at this time.
Shipping	Returns	Does the Shipping API - Package support returns capabilities?	Yes.

API	Category	Question	Answer
Shipping	International Forms	Does the Shipping API - Package support international forms?	Yes.
Shipping	Label	Does the Web Services version of the Shipping API - Package behave differently in rendering a label than the XML version of the Shipping API - Package?	The Web Services Shipping API - Package behaves similarly as the XML Shipping API - Package in that the label elements returned in the Shipment Accept response consist of two parts, both of which are base64 encoded data which must be decoded. Part one consists of the label image and part two contains the HTML which is used to properly size the label image in a browser for display and printing. When the two parts are combined they form a unit which will satisfy the requirements for printing a proper label to apply to a package. This ensures the label will meet the standards necessary for UPS to scan and process the label within the shipping system.
Shipping	Electronic Return Label Days Available	Does the customer have to utilize the label recovery capability within the Ship API to reprint a print return label? Either way, how many days is the label available to reprint?	Effective with the January 2009 ER, the time limit for retrieving an Electronic Return Label has been extended to 30 days. The prior limit was 10 days. This is noted in the latest Shipping Developers Guide. Also, the latest Shipping Developers Guide no longer references label recovery and the LabelLinkIndicator is no longer listed in the Xpath. An Electronic Return Label is specified by using Shipment/ReturnService/Code "8" in the Shipment Confirm Request. The ERL email will contain a link to the label so the recipient can print the label to attach to a package.
Shipping	Maximum Packages within a shipment	Is there a difference between the Shipping API - Package Web Service versus XML versions in the number of packages that can be included within a forward movement?	There is no difference between the Shipping XML Tool and Web Service Tool regarding the maximum number of packages allowed for forward movements. The Web Service Developer Guide indicates 200 is the maximum.

API	Category	Question	Answer
Shipping	PLD Aging	How long after a label is created with the Ship API, do we "hold" the PLD? In other words, a customer set up on Scan Based Billing creates a label today but doesn't use it - how many days before the PLD is no longer available on our side to match with the label when it is used?	UPS holds the PLD for 90 days looking for scans. After 90 days closed loop billing business rules will kick in if the package enters the network.
Shipping	Returns	Are the Returns capabilities the same within the Web Service versus XML versions of the Shipping API - Package?	Yes. The Returns capabilities are the same.
Shipping			Pickups are no longer billed per package and based on service type. There is now a flat pickup charge per request for all service types.
Shipping			To be removed from Scan-Based Billing, process a billing message to Columbia with "SBB" as the first words in the message. Including the account number(s), account name(s) and the reason for wanting to switch back to PLD billing and send the request to sbbadmin@ups.com. Make sure you include "SBB Customer Removal" in the subject line of the e-mail. Columbia will answer the customer's questions and remove them from Scan-Based Billing, if necessary.

API	Category	Question	Answer
Shipping	Reference Number Rules	What does the Shipping API - Package support in terms of Reference Numbers?	Supports Two Shipment Level Reference Numbers and two package level reference numbers You cannot use the Shipment Level and Package Level Reference numbers at the same time within a SHIP API shipment. Shipment Level Reference Numbers are only allowed for shipments that are not US to US (origin\destination) or PR to PR (origin\destination) Package Level Reference Numbers are only allowed for shipments that are US to US (origin\destination) or PR to PR (origin\destination). Reference Number Propagation 1. In a Ship API Shipment, if there is no Package Lvl. Ref# on the 1st package of the shipment, the Shipment Lvl. reference number(s) will be propagated to all packages. Reference Number Propagation In a Ship API Shipment, if there is no Shipment level reference number and there is Package Lvl. reference number on the 1st package, the 1st package's reference number will be propagated up to the Shipment Lvl.
Shipping	Paperless Invoice Shipment	How does Paperless Invoice work in terms of the documentation being forwarded?	Those customers setup for paperless invoicing shipping internationally to a paperless supported country with the necessary data for paperless will have the invoice automatically sent to brokerage.
Shipping	Consolidation	Will the AF Shipping API allow for shipment consolidation?	No. Each shipment processed will have a unique shipment ID, otherwise known as the shipment or tracking number. Each shipment processed will be rated on the basis of the total actual weight or dimensional weight if applicable of each shipment.
Shipping	Account Numbers	Does the user of the AF API need to have an SCS account number (9 digit number)?	In order for contract rates to be applied by E2K an SCS 9 digit account number must be established. A user could send only the 6 digit package account number to E2K but the contract rates would be apply unless an SCS 9 digit account number has been created and it has been linked to the 6 digit account number via the ALT-ID process.

API	Category	Question	Answer
Shipping	Pick Up Request or PRQ Validation	Will the AF tools create a pick up request in E2K?	A pickup request will be created in PRQ (E2K) after validation by E2K that the pickup is within the parameters required for the pickup to be completed. If the pick up request is for a time that is beyond the cut off time for the shipper location, E2K will return a message to the user that the pick up can not be completed. A new pickup date and time would have to be sent to E2K that would fit the parameters for a successful completion of the pick up.
Shipping	Pre-authorization Requirement	Will pre-authorizations be required in order to complete an AF shipment containing certain parameters?	Yes. If a pre-authorization condition exists based on the shipment parameters that may include service requested, lane pair, dimensions, restricted lane capacity, haz mat, oversized shipments or any other combination that fits a pre-authorization required scenario, the user will be returned a message from E2K indicating that a Pre-authorization approval is required. The user must call their UPS-SCS customer service to determine the approval status of the shipment.
Shipping	Pick Up Request Cancellation	Can a shipment be cancelled after a pick up request has been sent?	A Shipper who wants to cancel a pickup will need to contact SCS Kansas City Customer Service (KCS) at 866-696-3656 or the Origin service center manually.
Shipping	Payment Types Allowed	What are the payment types that will be allowed by the AF API user?	The valid payment types are Prepaid, Collect and Third Party Billing. A Third Party Bill to must be either in the country of origin or the country of destination. Third Party, Third Country billing is not allowed.
Shipping	Imperial or Metric Values	Can the call to the API include either Metric or Imperial	Yes, The Web Service will validate for the following values: IMPERIAL METRIC (Imperial = Pounds & Inches Metric = Kilograms & Centimeters)
Shipping	Maximum Number of Pieces	What is the maximum number of pieces that can be in a shipment?	The maximum number of pieces is 99 for one shipment.
Shipping	Maximum Number of Reference Numbers	What is the maximum number of reference numbers that can be associated to a shipment?	The maximum number of reference numbers is 200.

API	Category	Question	Answer
Shipping	Shipment Numbers	Where do the Shipment Numbers come from that are assigned to the shipment and that print on the HAWB?	A Shipment number is returned from the UPS E2K system and is 10 digits and includes the check digit..
Shipping	Invoicing	Will my invoice be the same as my current UPS package invoice?	It is important to be aware that the final invoice cannot actually be "billed" to a UPS package account #. The UPS-SCS invoicing system is totally separate from the package system. We can only print the 6 character UPS package account on the SCS branded invoice.
Shipping	Operations	How do I know if a pickup can be made today when my shipment is processed?	When the pickup request is sent to UPS, our system will check to ensure that the Shipper location is within an area that will allow UPS to make the pickup before the local cut off time for that area. When UPS confirms the pickup time, date and location is available we will sent a confirmation back electronically. This confirmation is known as the PRQ number or Pick Up Request confirmation number.
Shipping	Operations	How do I know if the service level I requested is available for the location I am shipping to?	When shipment data is sent to UPS electronically, the UPS systems will check the data against all the business rules that are in place for the origin and destination. Your shipment will only be allowed to be processed and a PRQ number assigned if all aspects of the shipment are acceptable.
Shipping	Shipping	In a large Strategic Account can they utilize the same UPS Account Number and change the ShipFrom element in the transaction request so the package will be picked up at their ShipFrom but be billed to the UPS Account?	The ShipFrom can be changed to represent from where the packages will be picked up as long as the country code is the same as the ShipperAddress.
Shipping	Labeling	Does the Shipping API support ASC BIO labels like WorldShip does?	The Ship API does not support ASC BIO on the label it is a contract service and the PLD segments required to ship with this service are not available currently via the Ship API.

API	Category	Question	Answer
Shipping	Label Reference Number	Can any of the reference fields be blocked from printing on the label through a Shipping API?	At this time we are unaware of a facility which suppresses reference number printing on the label when they are included in the shipment data. However, please note that reference numbers are not required and may be omitted if there is no need for them. Based on the information provided, if the customer is using reference numbers and does not want them to appear on the label, we would suggest they store them internally within their client application and then not pass them to UPS when creating shipments. This would also preclude them from being available within UPS' data and they would need to be managed outside of UPS.
Shipping	Certification	What is required to certify for the Shipping API - Package?	The information below is needed for your approval and use of the Shipping Tool ever if it is a return service. We also need your user id, password, and access key for this process. The information requested is necessary for eDeployment to grant you approval. UPS requires the your development team to submit a test case with a Declared Value exceeding $999 USD and to capture a deliver a copy of the High Value Report to the UPS Implementation Support Team for certification.Approval is granted based on the validity of 39 files submitted with the correct extensions. The required files should be as follows:• ShipConfirms (10) Extension: Name.XML• ShipAccepts (10) Extension: Name.XML• Label Images (05) Extension: Name.GIF• Scaling Information (05) Extension: Name.HTML• Void Documents (08) Extension: Name.XML• Declared Value Report (01) Extension: Name .GIF
Shipping	Signature Required	Does the Shipping API - Package support Signature Required service?	Yes.
Shipping	Future Date Shipping	Is there a future date shipping capability within the Shipping API - Package?	No. We do not support future date shipping. However, if the customer saves the shipment digest or the shipment confirm response they can submit that at a later time frame (future date).

API	Category	Question	Answer
Shipping	Paperless Invoice Conditions	What are the pre-conditions required for a customer to be set up on Paperless Invoice?	The following information regarding paperless invoicing using the OnLine Tools which are listed below: 1. The Sold To country must be the same as the Ship To country. 2. The customer must have a paperless invoice contract and be set up in UPS back end systems. (The UPS Account Manager should set this up.) 3. The shipment is a non-document package forward shipment requiring a commercial invoice. 4. The destination country is a valid paperless invoice destination. (A list of those destinations is available in the Developer's Guide.) 5. If additional export documents are required for the movement, the customer must specify an <AddtionalDocumentIndicator/> in the XML request. If the above conditions have been met an EDI (paperless invoice) or EDI PULL (paperless invoice and additional export document indicator) will appear on the bottom right corner of the label which is returned in the ShipAcceptResponse XML. This indicates that Paperless Invoicing has been requested. To implement paperless invoicing an <InternationalForms> container must be present in the XML to provide the information necessary to replace a paper invoice with a paperless (electronic) invoice. There is a section devoted to International Forms in the Developer's Guide which provides the XML structure for Certificate of Origin (CO), Invoice, North American Free Trade Agreement Certificate of Origin (NAFTA CO), or Shipper's Export Declaration (SED) as appropriate. The shipper needs to add the container along with the necessary international forms information for the shipment.
All	General - security	Does UPS support chained or unchained digital certificates?	Currently, the Ship API uses an unchained cert which will be migrated to chained Sept '09. In the case of the Ship API, INET is responsible for those urls and corresponding Digital Certs. They are being renewed at the end of this month as unchained. They will migrate to chained in Sept '09.
All	API availability	Within what countries are the Developer APIs available?	The Developer APIs are available in the countries listed at ups.com by API and by country under the UPS Developer Kit - Developer APIs.

API	Category	Question	Answer
			Click on any particular API to go to the API page and scroll to the bottom of the page to get the country listing for that particular API.
All	Mail Innovations	Is Mail Innovations available within any of the Developer APIs?	There is no UPS API available for Mail Innovations services at this time nor did we see one at http://www.upsmailinnovations.com. Additionally we are not aware of any plans to support the services through the UPS Developer APIs. The customer may however contact a Mail Innovations representative by clicking the Support tab of the site for any additional questions or concerns.
All	UPS Logos High Resolution	How do I get access to higher resolution logos than what are available within the downloads for the UPS Developer Kit - Developer APIs?	Customers are not routinely provided these UPS shield graphics without having a design/layout submitted to UPS Brand Management for approval. The customer needs to visit: https://www.upsbrandexchange.com/forward.do?destination=brandHome This site will take them through the process for downloading a limited set of sample images for layout, and how to secure an approval for customer use, as well as the high-resolution graphics.
All	Technical Support email form	Is XPCI a required field within the email support form?	No.
All	Technical Support email form	From where is XPCI version number obtained and what does it mean?	XPCI stands for XML Package Carrier Interface (XPCI) and defines a vocabulary and structure for describing packages, shipments, and the activity details for package carriers and their customers. XPCI is a set of DTDs that defines the terminology, transaction enveloping, and XML message definitions. For a client to be XPCI-compliant, the client must generate a well-formed XML message that validates against the XPCI DTDs. Several DTDs, organized into three categories, define XPCI: Vocabulary — This DTD defines the basic business vocabulary of XPCI. All tags used in a message are defined in this DTD. Interchange — This DTD defines the transaction-enveloping scheme. Every message includes transaction information. Message — Each message has an associated DTD that defines the vocabulary of the message.

API	Category	Question	Answer
			The version and date would have been related to versioning however the APIs were not versioned so they currently do not carry significance. They remain as part of the APIs so that in the event they are versioned, we have these elements "just in case".
All	Technical Support	How do I get technical support for the APIs at ups.com?	Go to the Developer Resource Center and select email support under the UPS Developer Kit Support Column.
All	Characters	Can Japanese Kanji character be recognized by UPS Developer APIs?	No.
All	Basic	Do any of the Developer APIs support Basic service?	No. Basic is not supported within the Rating or Shipping APIs but is supported within the Tracking API available within the UPS Developer Kit - Developer APIs.
All	System Down-Times	Are there any designated system down times for the Developer APIs?	Yes. The overall reserved downtime for the CGI servers is Saturday 10:00 PM ET through Sunday 12:00 PM ET. However, often the window is shortened to two 15 minute intervals with one starting at 11 PM and the other occurring sometime between 1 and 3 AM ET Sunday morning for most weekends.

The back end goes through numerous updates typically beginning at 11:00PM Saturday through 4:00AM Sunday. Typically traffic is handled in such a way that there is very little impact to customers, and any impact which does occur does so in the 15 minute intervals mentioned previously. Having said this as this entire time is reserved for maintenance we inform customers of the possibility of experiencing issues throughout this time period so that if there are any issues which occur during maintenance we have a time window to troubleshoot and perform measures to resolve. On Sunday, the maintenance is really relegated to just ABR |
| All | ASMX | Are the Web Services versions of the APIs ASMX based? | No. All Web Services are XML based. This is described in the section 'UPS OnLine Tools Technologies' of every developer's guide |
| All | Web Services - Empty folders | The ship_dev_guide and Ship_Reference_guide folders have | Unfortunately code samples are not provided with the Shipping API - Web Services version. The reason being is that a WSDL is included |

API	Category	Question	Answer
	within the documentation zip file.	some sub folders that look like they should contain some code examples / samples but they are all empty? XML_Samples Visual_Basic Code_samples All empty?	which provides all of the necessary information needed to successfully implement the API. These folders are typically utilized in the XML version of the APIs as there is no WSDL present. If the customer wishes to view the samples contained in the Shipping API they can download the documentation by logging into UPS.com, navigating to the UPS Developer Kit, and then clicking on the Shipping API link.
All	Pointing to the wrong URL for API	I keep getting, "XML document is well formed but the document is not valid." error message. What am I doing wrong?	The "XML document is well formed but the document is not valid" error message is generally returned when an element in the XML request does not adhere to the formatting defined within the Xpath section of that API's developer guide. When the API returns this error it indicates the field which is not valid in the ErrorLocationElementName element in the XML response. When we test the XML provided by you earlier in this email chain we are able to receive a successful response. This would indicate that you may be posting to an incorrect URL. The error message returned from the API should have contained a line similar to the following: <ErrorLocationElementName>XPATH TO FIRST ELEMENT WHERE XML DOESN'T MATCH EXPECTED FORMAT</ErrorLocationElementName> As previously stated, this element is included in the XML error response to point you to the element of the posted request which is not valid for the Tool. When further clarification is needed you can look up the element in question in the Xpath section of the Developer Guide for the particular API. If this element lists another API's request such as "TrackRequest" it would indicate that you are posting to that API's URL and need to adjust the URL you are sending your XML to.
All	Phone Support	Is phone support provided for the UPS Developer Kit - Developer APIs? If so, what is the number and what are the hours of operation?	Yes. Phone support is provided at 1st Level only and for basic API questions. This includes integration questions and production questions. However, customers questions that cannot be answered verbally will be directed to the email support form at ups.com to escalate to 3rd level via email.

API	Category	Question	Answer
			Phone Support Hours: M-F 730am- 9pm EST Sa-Su 9am - 6pm EST 877.289.6420
All	Examples of API Implementations	Are there any examples of implementations that we can review to understand how best to utilize the APIs?	We do not share customer implementations of our tools amongst customers. On occasion we do post case studies on ups.com and articles in customer-facing newsletters, but that is only after gaining permission from the customer and working with Legal, Customer Communications, etc. Please understand that the XML tool is only data, which is transparent to the end user. How the developer implements the tool and presents results back to the end user can vary from web site to web site. These web sites may not highlight the full functionality of the tool. We need to be able to describe the value proposition of the tool without depending on another customer's usage.
All	Code languages supported	Do the APIs support PHP or Perl with code sample within the Developer Guides or the developer kit zip files?	No. We do not currently support PHP or Perl with sample code.

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