# UPS OnLine® Tools Shipping XML Tool Developers Guide

20 December 2007



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# **Important Information**

## **UPS OnLine Tools Shipping Tool:**

Your development of an application using the UPS OnLine Tools Shipping Tool is 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 OnLine Tools Shipping Tool. For more information on all requirements for the UPS OnLine Tools Shipping Tool, please refer to the UPS Technology Agreement or the Customer Technology Agreement.

## **Key Legal Requirements for UPS OnLine Tools Shipping Tool:**

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 OnLine Tools Shipping Tool to third parties, other than to persons having a bona fide interest in such information (e.g., the shipper, consignee or the third party payer).

UPS Account. You must design your application to only provide a user access to the UPS OnLine Tools Shipping Tool if the user has a UPS Account. Once the user provides UPS Account credentials, all tendered shipments manifested through the UPS OnLine Tools Shipping Tool must be billed to (1) Your UPS Account; or (2) a valid credit card account acceptable to UPS; or (3) a UPS account assigned by UPS to the consignee (this payment method also known as Freight Collect Billing); or (4) a UPS account assigned by UPS to a third party who has authorized You to use such UPS account for a tendered shipment (this payment method also known as Third Party Billing).

Consent to Use of UPS Mark.

All screens or forms generated by your application including information received through the UPS OnLine Tools Shipping Tool 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 Notices. You must include in your application and any POD Letters you prepare 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 OnLine Tools Shipping Tool. Your application must present all data within each field received through the UPS OnLine Tools Shipping Tool without amendment, deletion or modification of any type.

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# Welcome to UPS OnLine® Tools

Welcome to the UPS OnLine Tools Developers Guide. This guide provides the information you need to begin using UPS OnLine Tools.

The UPS OnLine Tools offer a fast and convenient way to access UPS service information using the Internet. With these tools, 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.

## How to Use this Guide

If you are an experienced developer, you can begin developing applications quickly after reviewing "Required Steps for Integrating with UPS OnLine Tools" for a brief overview of the tools.

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

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

If you would like to learn more about what UPS OnLine Tools can do for your applications, "Understanding UPS OnLine Tools Shipping Services" explains the services that those tools offer.

For a complete technical reference to the OnLine Tools, "Shipping Reference" includes a complete programming reference.

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

# What's New for January 2008

The .dtk Developer's Kit now contains a Tabular Interface Specification representing the request elements and response elements in a columnar format. Some additional descriptive clarifications are available in the Tabular Interface Specification.

Also, Sample request and response XML documents can be found in the .dtk Developer's Kit.

#### **New functionality for January 2008:**

- "Hundredweight" warning messages are now suppressed.
- The currency code abbreviation for Russia is now the Ruble (RUB). (Page 101.)

- OnCallPickup is now available for Germany origin shipments.
- Large Package is now available for Canada domestic shipments.
- Declared Value Type Code and Description (InsuredValue/Type/Code, InsuredValue/Type/Description) are now available at the package level. (See page 37).
- The Shipper can select to pay for Declared Value even when the Freight is paid by the Consignee or a third party.
- A new printer type (ZPL) is available for Zebra printers.
- New rules for Credit Card Validation require Security Code for validation. The SecurityCode element remains optional, and, if not present, CreditCard validation will fail.
- Multipiece domestic and international returns are now supported.
- Additional return origin countries are supported. (See Appendix E page 92)
- For Return Shipments the country codes must meet one of the following mutually exclusive conditions:
  - Alternative One: At least two of the following country codes must be the same: (ShipTo, ShipFrom, and Shipper)
  - Alternative Two: None of the following country codes are the same (ShipTo, ShipFrom, and Shipper) ...and all country codes ARE members of the EU.
  - Alternative Three: None of the following country codes are the same(ShipTo, ShipFrom, and Shipper)... and at least one of the country codes is not a member of the EU. Note: The shipper must have Third Country contract service:
- New error codes:
  - 121536 (See page 77)
  - 121537 (see page 77)
  - 121538 (see page 77)
  - 121539 (see page 77)
  - 129059 (see page 82)
  - 129090 (see page 82)

# **Required Steps for Integrating with UPS OnLine Tools**

- 1. Review the UPS Technology Agreement available at <a href="www.ups.com">www.ups.com</a>. This agreement requires that you follow certain procedures and practices in using UPS OnLine Tools.
- 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 done so.
- 6. Deploy your application for your customers.

# **Planning Your Applications**

Planning is a key part of any successful development activity, and UPS OnLine Tools applications are no exception. This section helps that planning by describing the important activities of any UPS OnLine Tools 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.

# **OnLine Tools Applications**

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

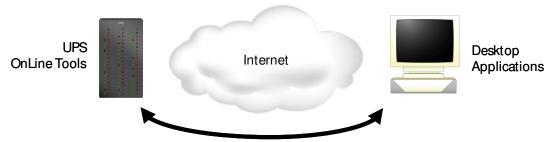


Figure 1: Dedicated applications that users run on their desktops can access UPS OnLine Tools.

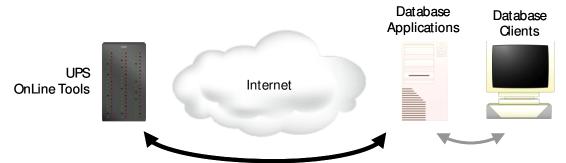


Figure 2: Database applications can access UPS OnLine Tools and return information to their clients.

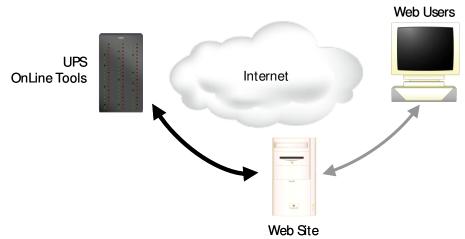


Figure 3: Web sites can access UPS OnLine Tools and return information to users' web browsers.

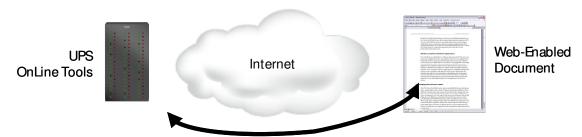


Figure 4: Non-traditional applications such as Microsoft Office or Adobe Acrobat documents can use UPS OnLine Tools to automatically update their content.

The UPS OnLine Tools 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 OnLine Tools.

# **Licensing the UPS OnLine Tools**

As part of the UPS Technology Agreement, users of the tools have certain obligations that are spelled out within the service agreement and its exhibits. Regardless of the manner in which the UPS OnLine Tools 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 OnLine Tools. No End

User, Third Party Developer or Access User should be permitted to use the OnLine Tools 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 OnLine Tools in a way that misrepresents the information or the functionality of the service.

# **Developing Client Applications for OnLine Tools**

When you develop software that uses the UPS OnLine Tools, you are building a client application. Because the UPS OnLine Tools 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 OnLine Tools. 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 OnLine Tools 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 OnLine Tools client applications; open source developers may find two particular projects to be especially helpful. The <u>libcurl</u> project is a library of functions that can manage the communications with UPS servers. For creating requests and interpreting responses, the <u>xerces</u> project provides essential functions in a variety of software languages.

# **Getting Technical Support**

UPS provides technical support for developers who are using the UPS OnLine Tools Web Services. 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

Effective July 2007, there is a phone number for External Customer Technology Support (ECTS): 1-877-289-6420 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 <a href="http://www.ups.com">http://www.ups.com</a>.
- 2. Select a language, (ex. United States English).
- 3. Log into <a href="www.ups.com">www.ups.com</a> with your User ID and Password.
- 4. Click the "Business Solutions" tab.
- 5. Click "UPS OnLine Tools", and then click "Support" on the left-hand navigation window.
- 6. Click the link for technical support.
- 7. 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 OnLine Tools page within the Business Solutions section of their country's UPS web site.

- 1. Navigate to the UPS website http://www.ups.com.
- 2. Select your country's home page and language (ex. United States English).
- 3. Click "UPS OnLine Tools", on the left navigational pane.
- 4. Click the "Business Solutions" tab.
- 5. Click "Support," on the left navigational pane.
- 6. Select "Technical Support Question".

7. 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 OnLine Tools representative.

# **Testing and Deploying Applications**

UPS maintains a special environment to support testing and staging of applications that rely on UPS OnLine Tools. 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.

## **UPS Label Certification**

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

- 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 the four UPS-defined "Void" test cases in CIE.
- 3. If you are using a Browser, e-mail the following 39 files along with your UPS OnLine "Developer's 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 via a provided label from the Tool 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 OnLine "Developer's 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).
- UPS will contact you within 2 business days to inform you of your approval status. Once approved, UPS will provide you with the Production URL.

Certification for third parties is described in the Product Provider Testing Guide.

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

# **Keeping Up-to-Date**

As UPS adds new services and features, UPS OnLine Tools will evolve, offering more features and service benefits. Once you register to use UPS OnLine Tools, UPS will notify you by e-mail of updates and changes to the OnLine Tools. 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 occur or responsibilities for the OnLine Tools shift within your company. You can also return to the UPS Business Solutions area of ups.com for the latest updated information about UPS OnLine Tools.

# **UPS OnLine Tools Technologies**

The foundation technologies for UPS OnLine Tools are the same underlying technologies in use on the Internet today. They include the Hypertext Transfer Protocol (HTTP) with Secure Sockets Layer (SSL) 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

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 OnLine tools also rely on protocols to set the rules for their communications. The primary protocol for UPS OnLine Tools is the hypertext transfer protocol, or HTTP.

HTTP is a relatively simple protocol. An application that wants to use an OnLine Tool 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.

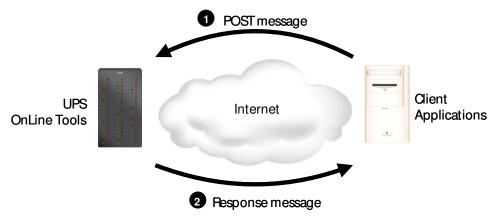


Figure 5. UPS OnLine Tools accept requests from client applications in HTTP POST messages and reply to the requests with HTTP responses.

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

In many cases the UPS OnLine tools exchange information that should be kept private. To protect confidential information, the UPS OnLine Tools rely on the Secure Sockets Layer (SSL) 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 UPS OnLine Tools use is the same protocol used to secure millions of on-line purchases on the web.

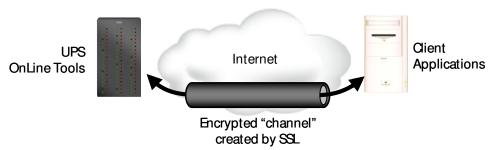
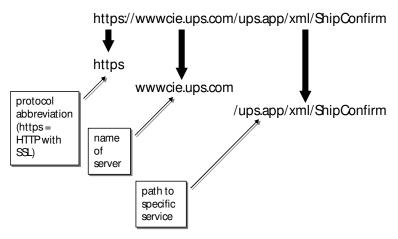


Figure 6: SSL creates a secure channel across a network and protects confidential communications using that channel.

# Working with HTTP and SSL in Application Programs

UPS OnLine Tools 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 OnLine Tool) using a Uniform Resource Locator (URL). URLs begin with an abbreviation of the communication protocol. For UPS OnLine Tools 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 7 shows how a URL combines these individual components.



# Figure 7. 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.

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 9 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.

Figure 9. The URL class from the java.net package is a convenient way for Java programs to use HTTP and SSL.

## Open Source



The <u>libcurl</u> project is an open source project that includes support for using HTTP and SSL protocols. The fragment in Figure 10 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 10. 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 OnLine tools, a message. Figure 11 shows how a simple XML message could describe a book.

```
<?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 11: 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 "&lt;" or "&amp;" respectively. The name of a large telecommunications company, for example, would appear as "AT&amp;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 <u>RFC 3548</u>, 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 12 shows the same XML message as Figure 11, but it uses a more visual representation to highlight the message's structure.

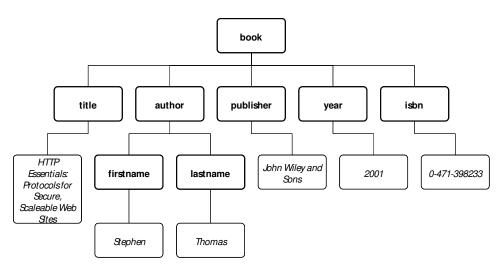


Figure 12. It is often convenient to show XML messages in a tree-like graph to highlight their structure.

The example of Figure 11 and Figure 12 is a relatively simple XML message with just a few elements. UPS OnLine Tools rely on XML messages that are larger than this simple example, and it is difficult to show them in a pure graph like Figure 12 without losing legibility. Figure 13 shows an alternate way of depicting the tree-like structure of XML messages; it uses the same example as before.

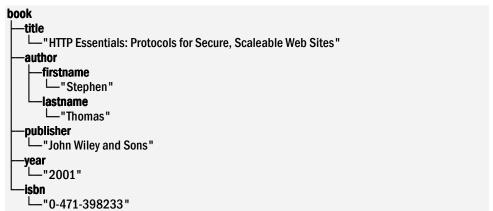


Figure 13. It is possible to show the tree-like structure of XML messages using text.

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 14 shows one approach for creating an XML message in Visual Basic, and Figure 15 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.

```
' 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 14. Visual Basic can create XML messages through the DOMDocument object.

```
Ind 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 15. 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 <u>Java API for XML Processing</u> (JAXP) is the preferred approach for working with XML messages in Java. Figure 16 shows how a BookClass object can be converted into an XML message, a process that JAXP calls *marshalling*. Similarly, Figure 17 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 16. 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 17. 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 <u>xerces</u> 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 18 demonstrates creating an XML message in C++ with the xerces library. Figure 19 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 18. 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 19. The Xerces C++ library also supports parsing XML messages to find individual elements.

# **Understanding UPS OnLine Tools Shipping Services**

This section provides an overview of the OnLine Tools Shipping Services. It describes the services available through the OnLine Tools, and it explains—at an overview level—how the tools operate. The next section, "Shipping Reference," documents the details of the Shipping Services OnLine Tools operations.

# What Shipping Services Can Do

OnLine Tools make UPS shipping services available to client applications that communicate with UPS using the Internet. With the OnLine Tools applications can prepare or schedule small package shipments, manage returns, or cancel previously scheduled shipments.

## **Shipments**

OnLine Tools 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 UPS OnLine Tools 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 <a href="http://www.ups.com">http://www.ups.com</a>. 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 OnLine Tools Shipping Services let client applications automate that task. This process is known as *voiding* a shipment.

## Returns

UPS OnLine Tools 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 OnLine Tools use the same procedure and message types for both services. Cancelling or voiding a shipment requires its own procedure and message types.

## Forward and Return Shipments

For forward and return services client applications use a four-step procedure to process a shipment. As Figure 20 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.

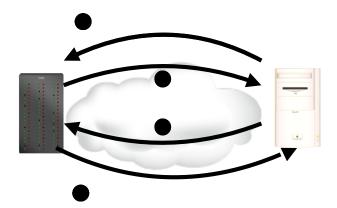


Figure 20. Forward and return shipments require four separate steps to complete the shipment processing.

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 21 illustrates, UPS replies to this request with a VoidShipmentResponse.

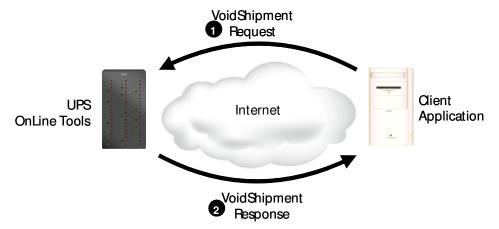


Figure 21. VoidShipmentRequest messages let client applications cancel a previously scheduled shipment.

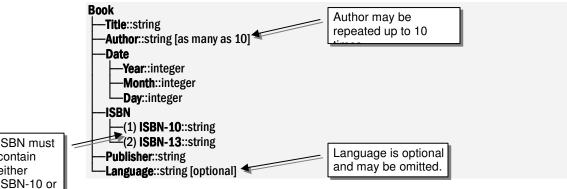
Applications may void forward shipments up to 28 days after initially processing them. Return shipments must be voided within 24 hours.

# **Shipping 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 OnLine Tools Messages**

As noted previously, all messages that UPS OnLine Tools send and receive consist of XML documents. This reference section defines the specific elements within those XML documents. Because XML documents follow a defined structure, this reference shows those elements using a compact, graphical notation. Here is an example of that notation, with some additional annotations to highlight important conventions:



ISBN must contain either ISBN-10 or ISBN-13. but not hoth

The figure indicates that a "Book" can contain six different child elements: Title, Author, Date, ISBN, Publisher, and Language. The Language element is marked "optional" so it is not required. All of the other five elements are required, however. Notice that the Author element can appear as many as ten times within the Book document. (The technical name for this property is *cardinality*.)

Some of the child elements can themselves contain child elements. The Date element, for example, consists of a Year element, a Month element, and a Day element.

Finally, notice that the children of the ISBN element (ISBN-10 and ISBN-13) have a number in parentheses preceding them. This number indicates a choice. In this example, the ISBN element must have either an ISBN-10 child element or an ISBN-13 child element, but it cannot have both.

If an element has no child elements, the notation convention shows the type of content that the element can contain. In the example, Year, Month, and Day must contain integer numbers, while other primitive elements can contain arbitrary text strings.

# **Authenticating Client Applications**

UPS OnLine Tools 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
—Userld::string
—Password::string
```

Each AccessRequest contains three child elements: an AccessLicenseNumber, a Userld, and a Password. The following figure shows an example AccessRequest document.

# **Forward Shipments**

Four different message types make up a complete shipment processing procedure: ShipmentConfirmRequest, ShipmentConfirmResponse, ShipmentAcceptRequest, and ShipmentAcceptResponse.

# (Forward) 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. When a client application is undergoing testing and integration, the document combination should be sent to the URL:

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

Once a client application is in production, the combined documents should be sent to the URL provided as part of the certification process.

The ShipmentConfirmRequest document in the request must conform to the following XML structure.

## (Forward) ShipmentConfirmRequest XML Details:

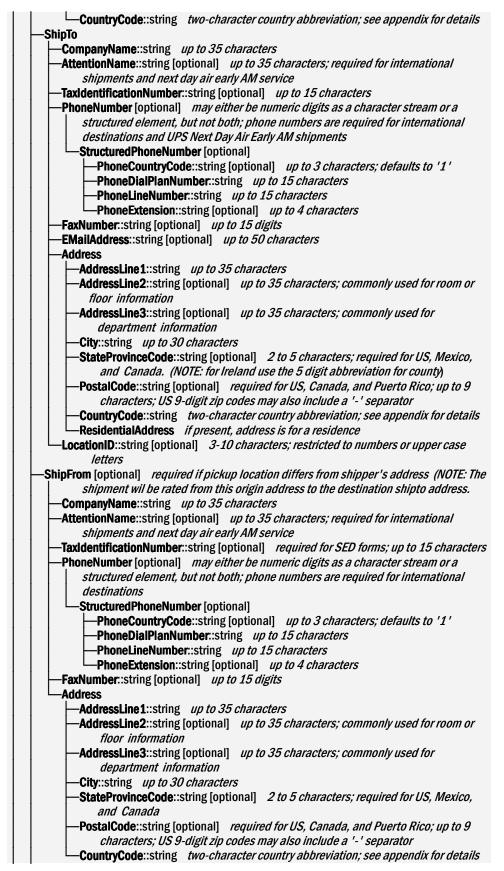
## **ShipmentConfirmRequest** Request -RequestAction::string 'ShipConfirm' -RequestOption::string for ShipConfirm, either 'validate' (validate the address, which is the default) or 'nonvalidate' (don't validate the address). ,(NOTE: if the validateoption is selected and the address is not valid, the request will fail with an address validation error.) -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' Shipment **Description**::string [optional] up to 35 characters; required for international shipments when ShipFrom and ShipTo countries differ and the packaging type is not UPS Letter, or when ShipFrom and or ShipTo countries are not in the European Union, or when the ShipFrom and ShipTo countries are both in the European Union and the shipment's service type is not UPS Standard **DocumentsOnlyIndicator** [optional] *if present, shipment contains only documents with no* commercial value. (NOTE: Valid only for shipments with different origin and destination countries. The origin country is not the US, and the destination country is not CA, PR, Shipper (NOTE: This is the address that is printed on the package label in the upper right hand corner. This will serve as the return to address if a package is undeliverable) Name::string up to 35 characters AttentionName::string [optional] up to 35 characters; required for international shipments and next day air early AM service **ShipperNumber:**:string 6-digit alphanumeric UPS account number. (NOTE: must be associated with the user id specified in the accessrequest. The account must be active and of type 01 daily pickup, 04 occassional air, or 07 occassional for all origins. • TaxIdentificationNumber::string [optional] up to 15 characters; required for SED forms with no ShipFrom information; up to 15 characters PhoneNumber [optional] may either be 15 numeric digits as a character stream or a structured element, but not both; phone numbers are required for international destinations StructuredPhoneNumber [optional] required if parent element, PhoneNumber is required and a phone number is not provided at the parent node. PhoneCountryCode::string [optional] up to 3 characters; defaults to '1' (Note: not valid for US phone numbers PhoneDialPlanNumber::string up to 15 characters PhoneLineNumber::string up to 15 characters -PhoneExtension::string [optional] up to 4 characters -FaxNumber::string [optional] up to 15 digits -EMailAddress::string [optional] up to 50 characters -Address [optional] the address must indicate a country which is a valid origin country for the service AddressLine 1::string up to 35 characters -AddressLine2::string [optional] up to 35 characters; commonly used for room or floor information AddressLine3::string [optional] up to 35 characters; commonly used for department information City::string up to 30 characters -StateProvinceCode::string [optional] (Upper case) 2 to 5 characters; required for US, Mexico, and Canada. (NOTE: for Ireland use the 5 digit abbreviation for PostalCode::string [optional] required for US, Canada, and Puerto Rico; up to 9 characters; US 9-digit zip codes may also include a '-' separator

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2 3 4 5 6 7

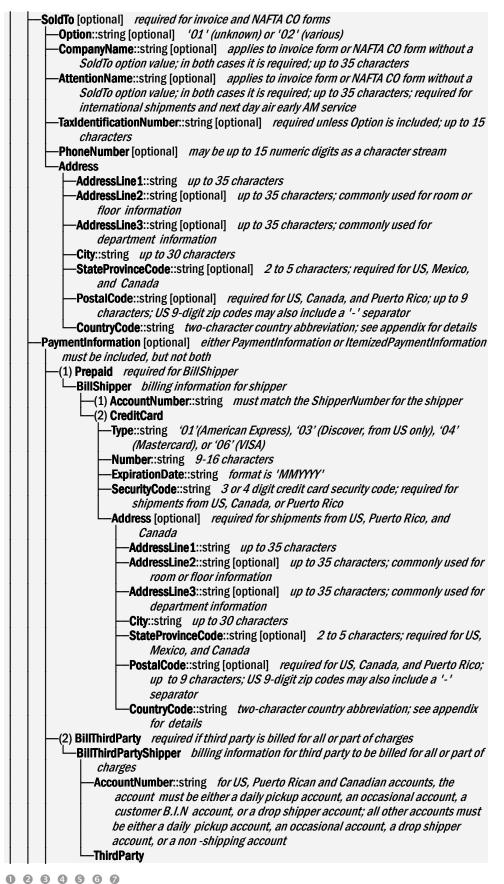
0

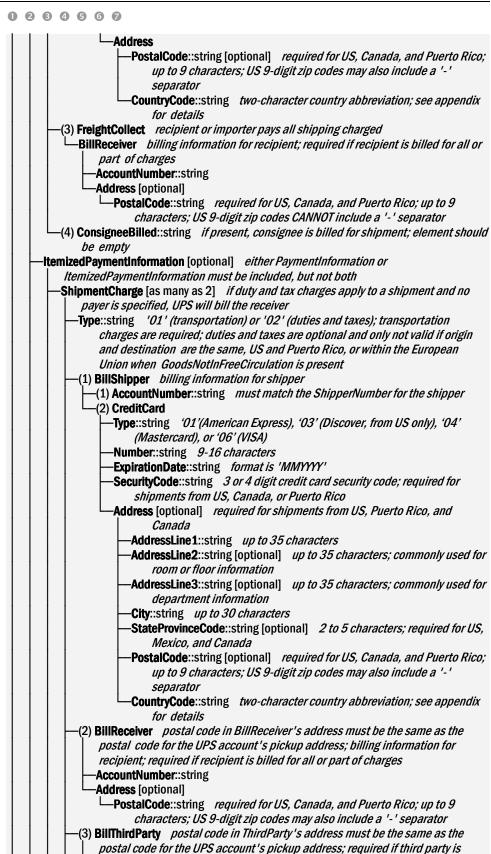




0 2 3 4 5 6 7



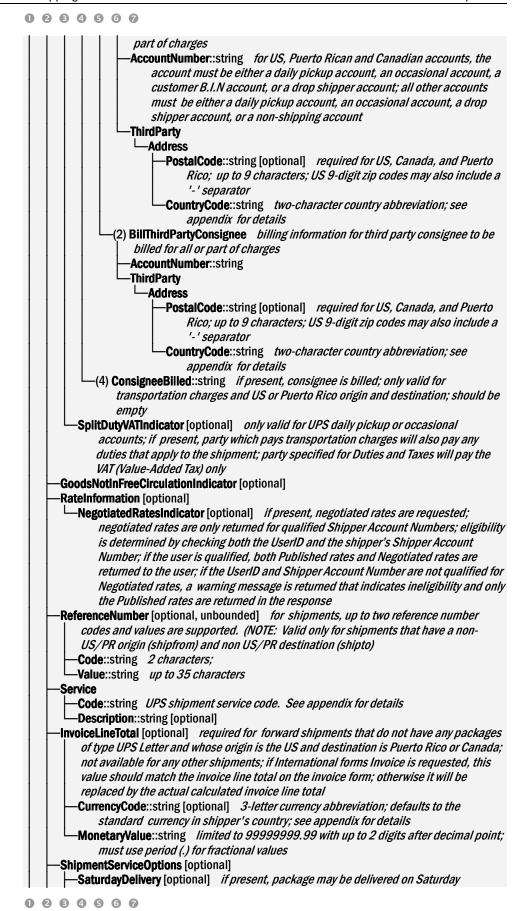




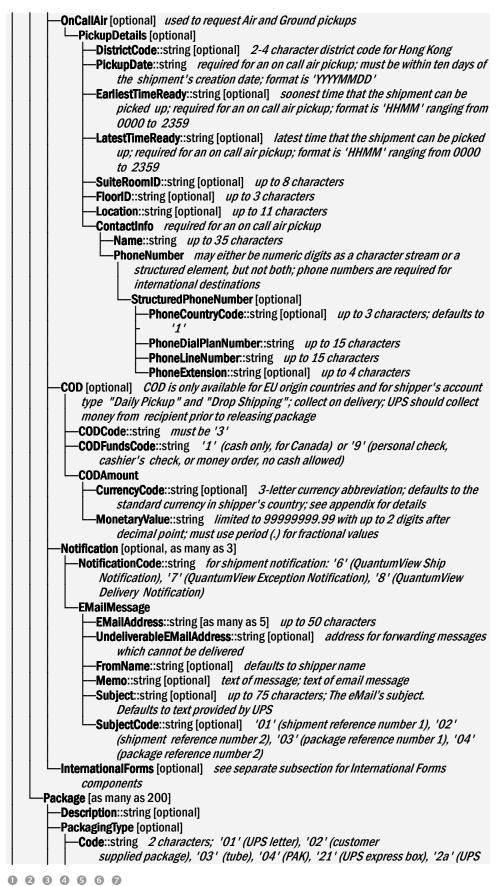
(1) BillThirdPartyShipper billing information for third party to be billed for all or

billed for all or part of charges

0 2 8 4 5 6 7

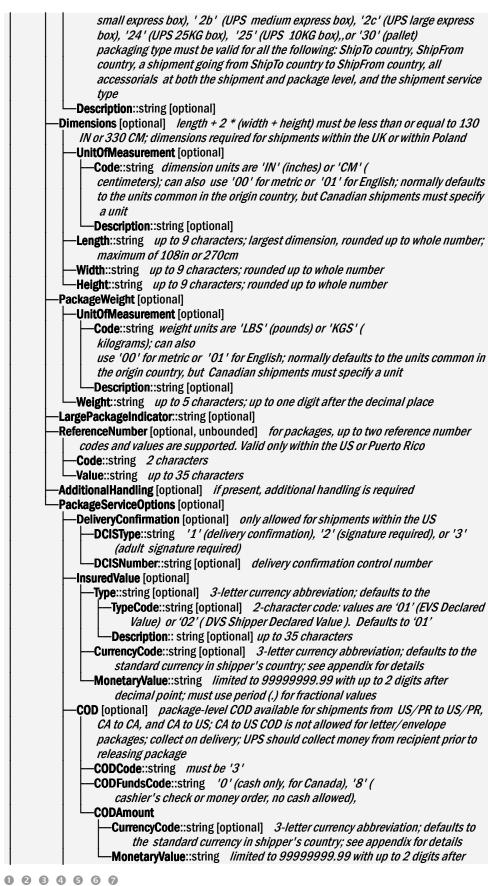






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```
0 2 8 4 5 6 7
                         decimal point; must use period (.) for fractional values
              VerbalConfirmation [optional]
                 -Contactinfo [optional] if absent; shipper's attention name and phone number
                      must be provided and are used as contact information
                     Name::string up to 35 characters
                     PhoneNumber may either be numeric digits as a character stream or a
                         structured element, but not both; phone numbers are required for
                         international destinations
                         StructuredPhoneNumber [optional]
                            -PhoneCountryCode::string [optional] up to 3 characters; defaults to
                            PhoneDialPlanNumber::string up to 15 characters
                            PhoneLineNumber::string up to 15 characters
                            -PhoneExtension::string [optional] up to 4 characters
              ShipperReleaseIndicator [optional] if present, driver may release package without
                  a signature; only valid in US and Puerto Rico
    LabelSpecification default values are GIF format and Mozilla/4.5 user agent
       -LabelPrintMethod [optional]
          Code::string valid values are 'GIF', 'EPL' 'ZPL' and 'SPL'
          -Description::string [optional]
       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'
       LabelStockSize [optional] only for ZPL, EPL and SPL labels; valid values are 4x6 or 4x8
          ·UnitOfMeasurement [optional]
             -Description::string [optional]
          -Height::string up to 9 characters; rounded up to whole number
          -Width::string up to 9 characters; rounded up to whole number
       LabellmageFormat G/F, ZPL, SPL or EPL2 Eltron printer image
          -Code::string valid values are 'GIF', 'EPL' 'ZPL' and 'SPL'
          Description::string [optional]
```

#### ShipmentConfirmRequest 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" ?>
<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>
    <a href="AttentionName">AttentionName</a>
    <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>
    <a href="#"><AttentionName>Manny</attentionName></a>
    <PhoneNumber>
        <StructuredPhoneNumber>
            <PhoneDialPlanNumber>410</PhoneDialPlanNumber>
            <PhoneLineNumber>5551212/PhoneLineNumber>
            <PhoneExtension>1234</PhoneExtension>
        </StructuredPhoneNumber>
    </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
</Service>
<PaymentInformation>
    <Prepaid>
        <BillShipper>
            <CreditCard>
                <Type>06</Type>
                <Number>411111111111111</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>
```

## (Forward) ShipmentConfirmResponse

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

### (Forward) ShipmentConfirmResponse XML Details:

```
ShipmentConfirmResponse
   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]
          -ErrorLocation [optional, unbounded]
              -ErrorLocationElementName::string [optional] Xpath expression that identifies the
                  element in error
              ErrorLocationElementReference::string [optional]
              -ErrorLocationAttributeName::string [optional] name of attribute in error
          -ErrorDigest::string [optional, unbounded] contents of the element in error
   ShipmentCharges [optional]
       TransportationCharges
           CurrencyCode::string 3-letter currency abbreviation; defaults to the standard currency
               in shipper's country; see appendix for details
           MonetaryValue::string limited to 99999999.99 with up to 2 digits after decimal point;
              must use period (.) for fractional values
       ServiceOptionsCharges
          -CurrencyCode::string 3-letter currency abbreviation; defaults to the standard currency
               in shipper's country; see appendix for details
          •MonetaryValue::string limited to 99999999.99 with up to 2 digits after decimal point;
              must use period (.) for fractional values
       TotalCharges
          -CurrencyCode::string 3-letter currency abbreviation; defaults to the standard currency
               in shipper's country; see appendix for details
          -MonetaryValue::string limited to 99999999.99 with up to 2 digits after decimal point;
               must use period (.) for fractional values
       NegotiatedRates negotiated Rates are only returned for qualified Shipper Account
           Numbers; eligibility is determined using the combination of UserID and the Shipper's
           Shipper Account Number; if the user is qualified, both Published rates and Negotiated
           rates are returned to the user; if the UserID and Shipper Account Number are not
           qualified for Negotiated rates, a warning message is returned that indicates ineligibility
      8 4 5 6 7
```

```
0 2 8 4 5 6 7
           and only the Published rates are returned in the response
          NetSummaryCharges
             -GrandTotal
                 -CurrencyCode::string 3-letter currency abbreviation; defaults to the standard
                     currency in shipper's country; see appendix for details
                 MonetaryValue::string limited to 99999999.99 with up to 2 digits after
                     decimal point; must use period (.) for fractional values
   BillingWeight weight used to calculate rate; may differ from actual weight when additional
       charges for oversize dimensions or weight apply
       UnitOfMeasurement same as in ShipmentConfirmRequest
          ·Code::string
          Description::string [optional]
       Weight::string up to 5 characters; up to one digit after the decimal place; '0' used for
   ShipmentIdentificationNumber::string 18 characters
   ShipmentDigest::string special data that UPS generates to uniquely identify the shipment;
       this information must be returned without modification in a ShipmentAcceptRequest
```

## (Forward) 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
    <ShipmentDigest>FSDJHFSDJSHDJK47873487489KFSDJKQSDFSJDFK94238093489034K
SDFJSDFKLJFDSKFKDJFSDKJFLSDKA923809234893402KLSDFJKLSDFJDFKSJFSDKLJFDSKLJFSD
KLJ49230843920814309KLSDFJFKLSDJFDKLSJSDFKLJDKFLJDSKLJ092348349223098IJKLFJKL
FSDJFKLASDJFKAJFSDIUR897348574KJWEHRIQEWU8948348</ShipmentDigest>
</ShipmentConfirmResponse>
```

# (Forward) ShipmentAcceptRequest

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

application is undergoing testing and integration, the document combination should be sent to the URL:

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

Once a client application is in production, the combined documents should be sent to the URL provided as part of the certification process.

The ShipmentAcceptRequest conforms to the following XML structure.

### (Forward) ShipmentAcceptRequest XML Details:

```
ShipmentAcceptRequest

Request

RequestAction::string 'ShipAccept'

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'

ShipmentDigest::string special data generated by UPS and returned in a
ShipmentConfirmResponse; the data must be included without modification in the
ShipmentAcceptRequest
```

## 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
KLJ49230843920814309KLSDFJFKLSDJFDKLSJSDFKLJDKFLJDSKLJ092348349223098IJKLFJKL
FSDJFKLASDJFKAJFSDIUR897348574KJWEHRIQEWU8948348</ShipmentDigest>
</ShipmentAcceptReguest>
```

# (Forward) ShipmentAcceptResponse

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

#### (Forward) ShipmentAcceptResponse XML Details:

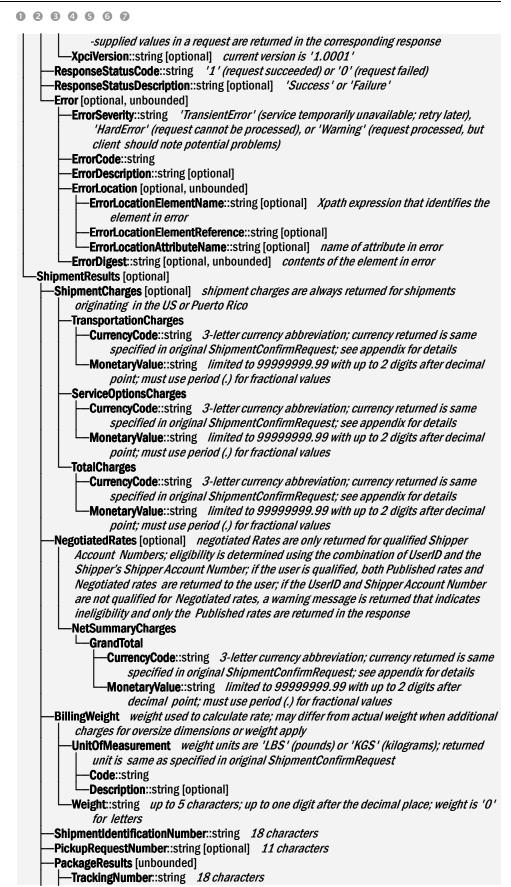
```
ShipmentAcceptResponse

Response

TransactionReference [optional]

CustomerContext [optional] any valid XML content up to 512 characters long; client

any valid XML content up to 512 characters long; client
```



0 2 3 4 5 6 7

```
0 2 8 4 5 6 7
```

```
ServiceOptionsCharges [optional]
      -CurrencyCode::string 3-letter currency abbreviation; currency returned is same
          specified in original ShipmentConfirmRequest; see appendix for details
      MonetaryValue::string limited to 99999999.99 with up to 2 digits after decimal
          point; must use period (.) for fractional values
   Labelimage [optional]
      -LabelimageFormat either GIF, SPL, ZPL or EPL2 Eltron printer image
         -Code::string valid values are 'GIF', 'EPL' 'ZPL' and 'SPL'
         -Description::string [optional]
      -GraphicImage::string graphic image encoded using Base64 algorithm
      and signature box; encoded using Base64 algorithm; only one image is returned
          for each shipment, and it is returned with the first package in the response
      HTMLImage::string [optional] GIF image encoded using Base64 algorithm
ControlLogReceipt [optional] included when declared value exceeds $999
   -ImageFormat
      -Code::string only supported format is 'PDF'
      Description::string [optional]
   GraphicImage::string graphic image encoded using Base64 algorithm
Form [optional]
  -Code::string only value is '01' (all requested forms)
   ·Description::string [optional]
   Image
      ImageFormat format of image
          Code::string only supported format is 'PDF'
         -Description::string [optional]
      -GraphicImage::string graphic image encoded using Base64 algorithm
   FormGroupId::string [optional]
   -FormGroupIdName::string [optional]
CODTurninPage [optional]
  -Image only image type supported is 'HTML'
      -ImageFormat format of image
         -Code::string only supported format is 'PDF'
         -Description::string [optional]
      GraphicImage::string graphic image encoded using Base64 algorithm
```

### (Forward) ShipmentAcceptResponse Example Message:

```
<?xml version="1.0" ?>
<ShipmentAcceptResponse>
    <Response>
        <TransactionReference>
             <CustomerContext>guidlikesubstance</CustomerContext>
             <XpciVersion>1.0001/XpciVersion>
        </TransactionReference>
        <ResponseStatus>0</ResponseStatus>
        <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>
            <Labellmage>
               <LabelImageFormat>
                    <Code>GIF</Code>
               </LabelImageFormat>
                <GraphicImage>FSDJHSDJHJ3487EHNE9U8DY9VHRFV89SDFHFSDJHFSDIDF
HSJKDFSJKDFSJIU9GFIUGJIFDUJG9UKGLDJFDKJDGKJDFKGDJLDFKSJGKDFJDKGFDG9E0ERIJGE39
IWURE9U9EROUW9ROUR9WEGU9URE9WGUW90U90GRUG90GERUG9REUGWERGJIOJGIODFGUI
OFDUGIOFUIGRUE090U9TERUT90RUT9EU90ERUT9ERU9EUER9TUT9R0UTE90RU9TERU90RTEU9
SDKHGJHGDFU</GraphicImage>
                <HTMLimage>SKJJKLHGIGKHGKJHGFJGFJHDFJGHDDJFHFDJHFJHFJKDHJKFDHJ
FJDFHDFJHJDFHGJDHGDFSHJKFSDHSDFJHFJSDHJKDFHFJKSHDSKJHGFDJSJDFSKSKJJKLHGIGKHG
KJHGFJGFJHDFJGHDDJFHFDJHFJHFJKDHJKFDHJFJDFHDFJHJDFHGJDHGDFSHJKFSDHSDFJHFJSDHJ
KDFHFJKSHDSKJHGFDJSJDFSKHGJKDS</HTMLImage>
            </LabelImage>
        </PackageResults>
        <PackageResults>
            <TrackingNumber>1Z123X670292134678</TrackingNumber>
            <AccessorialCharges>
                <MonetaryValue>2.20</MonetaryValue>
            </AccessorialCharges>
            <Labellmage>
                <LabelImageFormat>
                    <Code>GIF</Code>
               </LabelImageFormat>
                <GraphicImage>895UIGJ89XCASDVIGFUISDFNKLFSDANUI43UIT34IONSDFK
HG89GUKGJNGKDJFKDJDGKJDKFSDU089REUTDRKJOEIOUTERIJREIKGRJIGOWEJIEJIEGJGRIOEJGR
IGJIODJGFIODFJSIOUDFIOGDFUGDF890ERUTRIOGTJRDIOOGJGIOSDFJGIOJGIOJIOGFUGJIOGU90E
8T9TRFIRWEU90WERU90WU90WTU90WUT09WEUTWRJGKSDFJGIOSDFJGIOSDFJGIOSJSD</Grap
hiclmage>
                <HTMLimage>JDFSKAATRIOERHIOEGHNVIXCUIFGJMFDGMAN8Y89H54JMN1
MK345H8SDHFDHGJKGHFDJKGHDGKSFJAH893YTUITNGDFJSGH8935Y5RTHDDFJKHT89HTJETHW
ER8934Y89534KGNDF0JKKH893RYETFIHTRUIOEY89TY34IHDFUIHGRU9T38934UITHDIUJTHEQW
89RY8WIERHT9RI</HTMLImage>
            </LabelImage>
        </PackageResults>
   </ShipmentResults>
</ShipmentAcceptResponse>
```

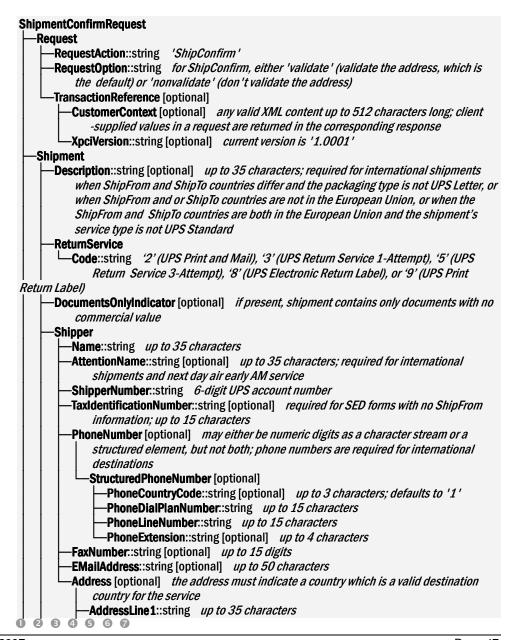
# **Return Shipments**

Four different message types make up a complete return shipment processing procedure: ShipmentConfirmRequest, ShipmentConfirmResponse, ShipmentAcceptRequest, and ShipmentAcceptResponse.

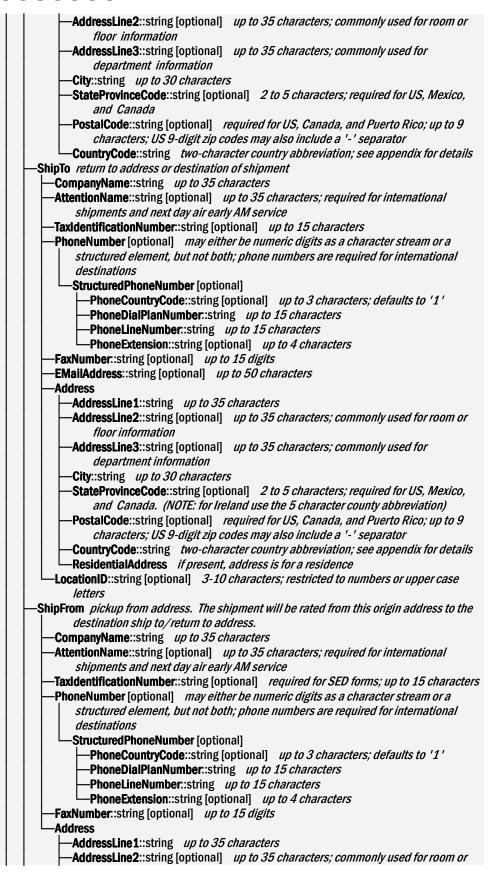
## (Return )Shipment Confirm Request

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

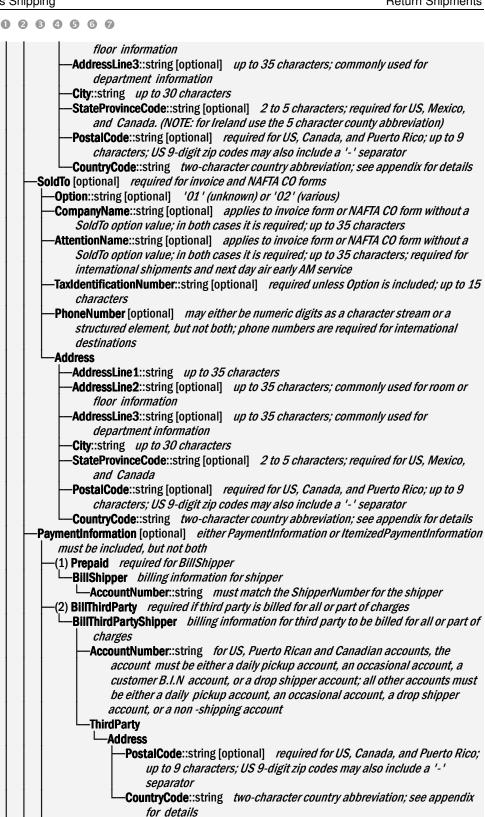
## (Return) ShipmentConfirmRequest XML Details:







0 2 3 4 5 6 7



0 2 3 4 5 6 7

be empty

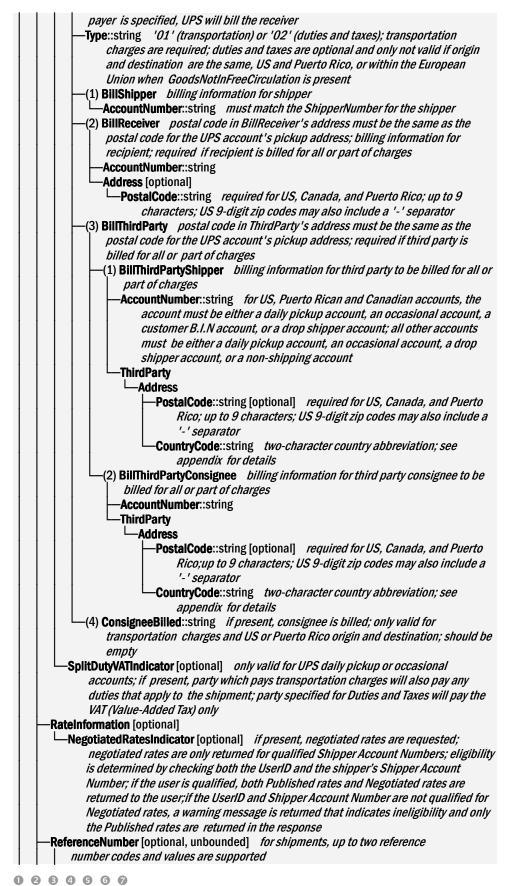
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**ItemizedPaymentInformation** [optional] either PaymentInformation or ItemizedPaymentInformation must be included, but not both

-(3) ConsigneeBilled::string if present, consignee is billed for shipment; element should

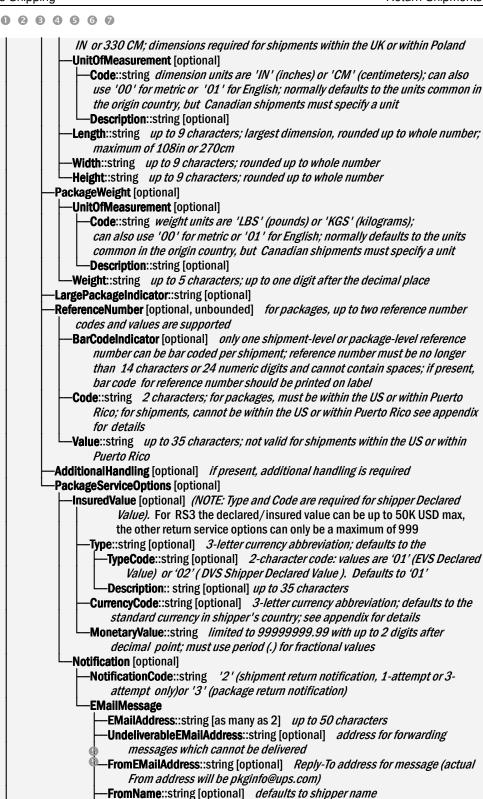
**ShipmentCharge** [as many as 2] if duty and tax charges apply to a shipment and no











0 2 3 4 5 6 7

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notification only)

•Memo::string [optional] text of message; text of email message

SubjectCode::string [optional] '01' (shipment reference number 1), '02' (shipment reference number 2), '03' (package reference number 1), '04' (package reference number 2), '08' (subject text, return

Subject::string [optional] up to 35 characters

```
0 2 3 4 5 6 7
```

```
LabelSpecification [optional] required for Print Return Label (PRL) service; default values are
       GIF format and Mozilla/4.5 user agent
      LabelPrintMethod [optional]
          Code::string must be 'GIF'
          Description::string [optional]
      -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'
      LabelStockSize [optional] only applies to EPL, ZPL and SPL labels; valid values are 4x6
                or 4x8
          UnitOfMeasurement [optional]
            -Description::string [optional]
          Height::string up to 9 characters; rounded up to whole number
          -Width::string up to 9 characters; rounded up to whole number
      LabellmageFormat either GIF or EPL2 Eltron printer image
          -Code::string valid values are 'GIF', 'EPL' 'ZPL' and 'SPL'
         -Description::string [optional]
```

## (Return) ShipmentConfirmRequest Example Message:

```
<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
    <accessLicenseNumber>YOURACCESSLICENSENUMBER</accessLicenseNumber>
    <use><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>
        <ReturnService>
            <Code>9</Code>
        </ReturnService>
        <Shipper>
            <Name>Merchant</Name>
            <PhoneNumber>8005551212</PhoneNumber>
            <ShipperNumber>abc123</ShipperNumber>
            <Address>
                <AddressLine1>11 Merchant Lane</AddressLine1>
                <City>Atlanta</City>
                <StateProvinceCode>GA</StateProvinceCode>
                <PostalCode>30188</PostalCode>
                <CountryCode>US</CountryCode>
            </Address>
        </Shipper>
        <ShipTo>
            <CompanyName>Vendor</CompanyName>
            <a href="mailto:</a></a></attentionName>
```

```
<PhoneNumber>8009190000
        <Address>
            <AddressLine1>33 Vendor Lane</AddressLine1>
            <City>Atlanta</City>
            <StateProvinceCode>GA</StateProvinceCode>
            <PostalCode>30018</PostalCode>
            <CountryCode>US</CountryCode>
        </Address>
    </ShipTo>
    <ShipFrom>
        <CompanyName>Jane Doe</CompanyName>
        <PhoneNumber>5551414</PhoneNumber>
        <Address>
            <a href="#"><AddressLine1>2001 Consumer Drive</a></addressLine1>
            <City>Atlanta</City>
            <StateProvinceCode>GA</StateProvinceCode>
            <PostalCode>30010</PostalCode>
            <CountryCode>US</CountryCode>
        </Address>
    </ShipFrom>
    <Service>
        <Code>01</Code>
    </Service>
    <PaymentInformation>
        <Prepaid>
            <BillShipper>
                 <AccountNumber>123456</AccountNumber>
            </BillShipper>
        </Prepaid>
    </PaymentInformation>
    <Package>
        <PackageServiceOptions>
            <Notification>
                <NotificationCode>2</NotificationCode>
                <EMailMessage>
                     <EMailAddress>Vendor@vendor.com</EMailAddress>
                     <Memo/>
                     <Subject>Shipment ID</Subject>
                     <FromEMailAddress>Shipper@shipper.com</fromEMailAddress>
                     <FromName>Merchant</FromName>
                     <UndeliverableEMailAddress>
                         Shipper@shipper.com
                     </UndeliverableEMailAddress>
                </EMailMessage>
            </Notification>
        </PackageServiceOptions>
        <AdditionalHandling/>
        <ReferenceNumber>
            <Code>RZ</Code>
             <Value>0123456789</Value>
        </ReferenceNumber>
        <Description>Letter to be returned/Description>
        <PackagingType>
            <Code>01</Code>
        </PackagingType>
    </Package>
</Shipment>
```

# (Return) Shipment Confirm Response

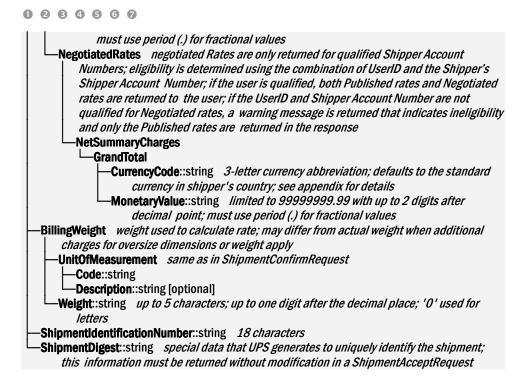
The Return ShipmentConfirmResponse message contains a single XML document that conforms to the following structure.

## (Return) ShipmentConfirmResponse XML Details:

ShipmentConfirmResponse
—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
<b>L XpciVersion</b> ::string [optional] <i>current version is '1.0001'</i>
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]
ErrorLocation [optional, unbounded]
—ErrorLocationElementName::string [optional] Xpath expression that identifies the
element in error
—ErrorLocationElementReference::string [optional]
ErrorLocationAttributeName::string [optional] name of attribute in error
<b>ErrorDigest</b> ::string [optional, unbounded] <i>contents of the element in error</i>
—ŞhipmentCharges [optional]
—TransportationCharges
—CurrencyCode::string 3-letter currency abbreviation; defaults to the standard currency
in shipper's country; see appendix for details
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
must use period (.) for fractional values
— ŞerviceOptionsCharges
—CurrencyCode::string 3-letter currency abbreviation; defaults to the standard currency
in shipper's country; see appendix for details
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐
must use period (.) for fractional values
— Total Charges
CurrencyCode::string 3-letter currency abbreviation; defaults to the standard currency
in shipper's country; see appendix for details
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

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0 2 3 4 5 6 7



## (Return) 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
    <ShipmentDigest>FSDJHFSDJSHDJK47873487489KFSDJKQSDFSJDFK94238093489034K
SDFJSDFKLJFDSKFKDJFSDKJFLSDKA923809234893402KLSDFJKLSDFJDFKSJFSDKLJFDSKLJFSD
KLJ49230843920814309KLSDFJFKLSDJFDKLSJSDFKLJDKFLJDSKLJ092348349223098IJKLFJKL
FSDJFKLASDJFKAJFSDIUR897348574KJWEHRIQEWU8948348</ShipmentDigest>
</ShipmentConfirmResponse>
```

## (Return) ShipmentAcceptRequest

The ShipmentAcceptRequest message consists of two complete XML documents. The first document is an AccessRequest. The AccessRequest is immediately followed by a ShipmentAcceptRequest. When a client application is undergoing testing and integration, the document combination should be sent to the URL:

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

Once a client application is in production, the combined documents should be sent to the URL provided as part of the certification process.

The ShipmentAcceptRequest document in the request must conform to the following XML structure.

## (Return) ShipmentAcceptRequest XML Details:

```
ShipmentAcceptRequest

Request

RequestAction::string 'ShipAccept'

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'

ShipmentDigest::string special data generated by UPS and returned in a
ShipmentConfirmResponse; the data must be included without modification in the
ShipmentAcceptRequest
```

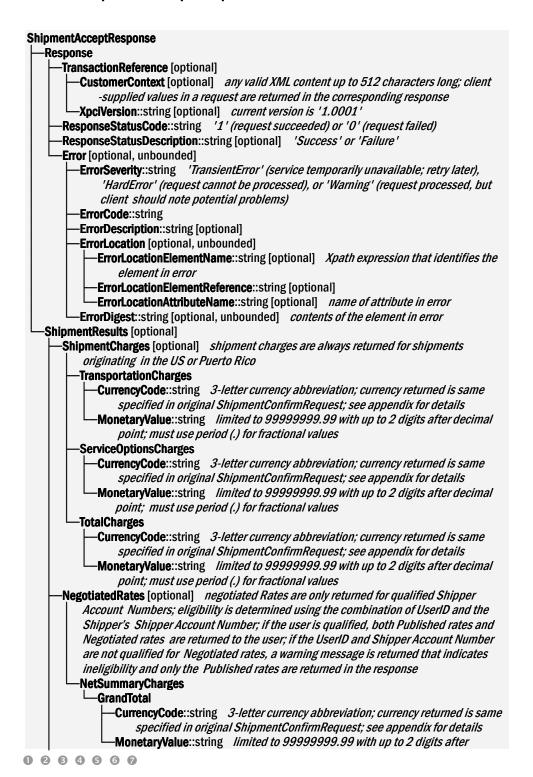
#### (Return) ShipmentAcceptRequest Example Message:

```
<?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>FSDJHFSDJSHDJK47873487489KFSDJK0SDFSJDFK94238093489034K
SDFJSDFKLJFDSKFKDJFSDKJFLSDKA923809234893402KLSDFJKLSDFJDFKSJFSDKLJFDSKLJFSD
KLJ49230843920814309KLSDFJFKLSDJFDKLSJSDFKLJDKFLJDSKLJ092348349223098IJKLFJKL
FSDJFKLASDJFKAJFSDIUR897348574KJWEHRIQEWU8948348</ShipmentDigest>
</ShipmentAcceptRequest>
```

## (Return) ShipmentAcceptResponse

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

## Return ShipmentAcceptResponse XML Details:





```
decimal point; must use period (.) for fractional values
BillingWeight weight used to calculate rate; may differ from actual weight when additional
    charges for oversize dimensions or weight apply
   UnitOfMeasurement weight units are 'LBS' (pounds) or 'KGS' (kilograms); returned
       unit is same as specified in original ShipmentConfirmRequest
       Code::string
      -Description::string [optional]
   Weight::string up to 5 characters; up to one digit after the decimal place; weight is '0'
       for letters
ShipmentIdentificationNumber::string 18 characters
-PickupRequestNumber::string [optional] 11 characters
-PackageResults [unbounded]
   TrackingNumber::string 18 characters
   ServiceOptionsCharges [optional]
      -CurrencyCode::string 3-letter currency abbreviation; currency returned is same
           specified in original ShipmentConfirmRequest; see appendix for details
       MonetaryValue::string limited to 99999999.99 with up to 2 digits after decimal
          point; must use period (.) for fractional values
   Labelimage [optional]
      -LabelimageFormat either GIF, SPL, ZPL or EPL2 Eltron printer image
          -Code::string valid values are 'GIF', 'EPL' 'ZPL' and 'SPL'
          -Description::string [optional]
      -GraphicImage::string graphic image encoded using Base64 algorithm
      and signature box; encoded using Base64 algorithm; only one image is returned
           for each shipment, and it is returned with the first package in the response
      -HTMLImage::string [optional] GIF image encoded using Base64 algorithm
      -PDF417::string [optional] PDF-417 barcode
      -URL::string [optional]
   Receipt [optional] only available for print and mail labels, return service (1 attempt),
       and return service (3 attempts)
       Image [optional]
          ImageFormat format of image (GIF, JPEG, etc.)
             -Code::string
             Description::string [optional]
          GraphicImage::string graphic image encoded using Base64 algorithm
      -URL::string [optional]
Form [optional]
   -Code::string only value is '01' (all requested forms)
   Description::string [optional]
   Image only supported format is 'PDF'
      -ImageFormat format of image (GIF, JPEG, etc.)
          -Code::string
          -Description::string [optional]
      -GraphicImage::string graphic image encoded using Base64 algorithm
   FormGroupId::string [optional]
   -FormGroupIdName::string [optional]
```

## ShipmentAcceptResponse Example Message:

```
</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>1Z123X670292134678</TrackingNumber>
            <ServiceOptionsCharges>
                 <MonetaryValue>2.20</MonetaryValue>
            </ServiceOptionsCharges>
        </PackageResults>
    </ShipmentResults>
</ShipmentAcceptResponse>
```

# **Cancelling Shipments**

UPS OnLine Tools use a two-message exchange to cancel a shipment. Those messages are VoidShipmentRequest and VoidShipmentResponse.

# VoidShipmentRequest

The VoidShipmentRequest message consists of two complete XML documents. The first document is an AccessRequest. The AccessRequest is immediately followed by a VoidShipmentRequest. When a client application is undergoing testing and integration, the document combination should be sent to the URL:

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

Once a client application is in production, the combined documents should be sent to the URL provided as part of the certification process.

The VoidShipmentRequest document in the request must conform to the following XML structure.

### **VoidShipmentRequest XML Details:**

```
VoidShipmentRequest

Request

RequestAction::string 'Void'

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'

ExpandedVoidShipment

ShipmentIdentificationNumber::string 18 characters

TrackingNumber::string [optional, unbounded] 18 characters
```

### VoidShipmentRequest Example Message:

```
<?xml version="1.0" ?>
<AccessRequest xml:lang='en-US'>
    <accessLicenseNumber>YOURACCESSLICENSENUMBER</accessLicenseNumber>
    <use><UserId>YOURUSERID</UserId>
    <Password>YOURPASSWORD</Password>
</AccessRequest>
<?xml version="1.0" encoding="UTF-8" ?>
<VoidShipmentRequest>
    <Request>
        <TransactionReference>
            <CustomerContext>CustomerTransaction 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

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

#### VoidShipmentResponse XML Details:

```
VoidShipmentResponse

Response

TransactionReference [optional]

CustomerContext [optional] any valid XML content up to 512 characters long; client

any valid XML content up to 512 characters long; client
```

```
0 2 6 4 6 6 7
               -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]
          -ErrorLocation [optional, unbounded]
               ErrorLocationElementName::string [optional]  Xpath expression that identifies the
                   element in error
               ErrorLocationElementReference::string [optional]
              -ErrorLocationAttributeName::string [optional] name of attribute in error
           ErrorDigest::string [optional, unbounded] contents of the element in error
    Status
       StatusType '1' (success) or '0' (failure)
           -Code::string values are '1' (success) or '0' (failure)
           -Description::string [optional]
       StatusCode [optional] '0' (failure), '1' (success), or '2' (partial void)
           -Code::string values are '2' (partial void), '1' (success) or '0' (failure)
          -Description::string [optional]
    PackageLevelResults [optional, unbounded]
       -TrackingNumber::string
       -StatusCode '0' (failure) or '1' (success)
          -Code::string values are '1' (success) or '0' (failure)
           -Description::string [optional]
```

## VoidShipmentResponse Example Message:

```
<?xml version="1.0" ?>
<VoidShipmentResponse>
    <Response>
        <TransactionReference>
             <CustomerContext>CustomerTransaction 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>
```

## **International Forms**

The InternationalForms element may be part of ShipmentConfirmRequest messages for both forward and return shipments. When the element is

present, the client application requests UPS to prepare international forms, including Certificate of Origin (CO), Invoice, North American Free Trade Agreement Certificate of Origin (NAFTA CO), or Shipper's Export Declaration (SED). The complete components of this element follow the structure below.

Note: When creating paperless invoices refer to Appendix I: Countries that Accept Paperless invoices. (Page 107).

## Shipment Confirm International Forms

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

#### InternationalForms XML Details:

```
InternationalForms
   -FormType::string [as many as 4] '1' (invoice... is also valid for return shipments e),
        '2' (shipper's export declaration), '3' (certificate of origin), or '4' (North American Free
        Trade Agreement certificate of origin)
   SEDFilingOption::string [optional] if present, shipper is filing SED; must be '01'
   Contacts [optional] required for NAFTA CO and Invoice; may also be included with SED
       ForwardAgent [optional] applies to SED only; party acting as agent in trans-shipment to
           destination country
          CompanyName::string [optional] up to 35 characters
          -TaxIdentificationNumber::string [optional] up to 15 characters
          Address [optional]
              -AddressLine1::string up to 35 characters
              -AddressLine2::string [optional] up to 35 characters; commonly used for room or
                  floor information
              AddressLine3::string [optional] up to 35 characters; commonly used for
                  department information
              -City::string up to 30 characters
             -StateProvinceCode::string [optional] 2 to 5 characters; required for US, Mexico,
              -PostalCode::string [optional] required for US, Canada, and Puerto Rico; up to 9
                  characters; US 9-digit zip codes may also include a '-' separator
              CountryCode::string two-character country abbreviation; see appendix for details
       UltimateConsignee [optional] required for SED and only applies to SED
          -CompanyName::string [optional] up to 35 characters
          Address [optional]
              -AddressLine 1::string up to 35 characters
              AddressLine2::string [optional] up to 35 characters; commonly used for room or
                  floor information
              -AddressLine3::string [optional] up to 35 characters; commonly used for
                  department information
              City::string up to 30 characters
              -StateProvinceCode::string [optional] 2 to 5 characters; required for US, Mexico,
                  and Canada
              PostalCode::string [optional] required for US, Canada, and Puerto Rico; up to 9
                  characters; US 9-digit zip codes may also include a '-' separator
              -CountryCode::string two-character country abbreviation; see appendix for details
   2 3 4 5 6 7
```

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0

```
0 2 8 4 6 6 7
       -IntermediateConsignee [optional] applies to SED only
           • CompanyName::string [optional] up to 35 characters
           Address [optional]
              -AddressLine 1::string up to 35 characters
              -AddressLine2::string [optional] up to 35 characters; commonly used for room or
                   floor information
              -AddressLine3::string [optional] up to 35 characters; commonly used for
                   department information
              -City::string up to 30 characters
              -StateProvinceCode::string [optional] 2 to 5 characters; required for US, Mexico,
                   and Canada
               PostalCode::string [optional] required for US, Canada, and Puerto Rico; up to 9
                   characters; US 9-digit zip codes may also include a '-' separator
               CountryCode::string two-character country abbreviation; see appendix for details
       -Producer [optional] required for NAFTA CO and only applies to NAFTA CO
           -Option::string [optional] '01' (available to customs on request), '02' (same as
               exporter), '03' (attached list), or '04' (unknown)
           CompanyName::string [optional] required if producer option is not present or empty;
               up to 35 characters
           Address [optional] required if producer option is not present or empty
              -AddressLine1::string up to 35 characters
              -AddressLine2::string [optional] up to 35 characters; commonly used for room or
                  floor information
              -AddressLine3::string [optional] up to 35 characters; commonly used for
                  department information
              -City::string up to 30 characters
              -StateProvinceCode::string [optional] 2 to 5 characters; required for US, Mexico,
                  and Canada
              -PostalCode::string [optional] required for US, Canada, and Puerto Rico; up to 9
                   characters; US 9-digit zip codes may also include a '-' separator
               CountryCode::string two-character country abbreviation; see appendix for details
           TaxIdentificationNumber::string [optional] up to 15 characters
    Product [as many as 50] applies to SED, Invoice, CO, and NAFTA CO
       -Description::string [as many as 3]
       Unit [optional] 'BA' (Barrel), 'BE' (Bundle), 'BG' (Bag), 'BH' (Bunch), 'BOX' (Box), 'BT' (
            Bolt), 'BU' (Butt), 'BX' (Box), '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), 'PK' (Package), 'PKG' (Package), 'PR' (Pair),
            'PRS' (Pairs), 'RL' (Roll), 'SET' (Set), 'SME' (Square Meters), 'SYD' (Square Yards),
            'TU' (Tube), 'YD' (Yard), 'OTH' (Other, in which case Description
           is required)
           Number::string
           -Value::string
          -UnitOfMeasurement
              -Code::string
              -Description::string [optional]
       CommodityCode::string [optional] applies to invoice and NAFTA CO; required for NAFTA
            CO; 6 to 15 characters; international commodity or harmonized code
       -PartNumber::string [optional] applies to Invoice; up to 10 characters
       •OriginCountryCode::string [optional] applies to Invoice and NAFTA CO; required for
           Invoice; required for NAFTA CO unless JointProductionIndicator is present
       -JointProductionIndicator [optional] applies to NAFTA CO
       -NetCostCode::string [optional] applies to NAFTA CO, for which it is required; 'NC'
           (regional value content calculated using net cost method) or 'NO' (otherwise)
       -NetCostDateRange [optional] applies to NAFTA CO
        -BeginDate::string format is 'YYYYMMDD'
```

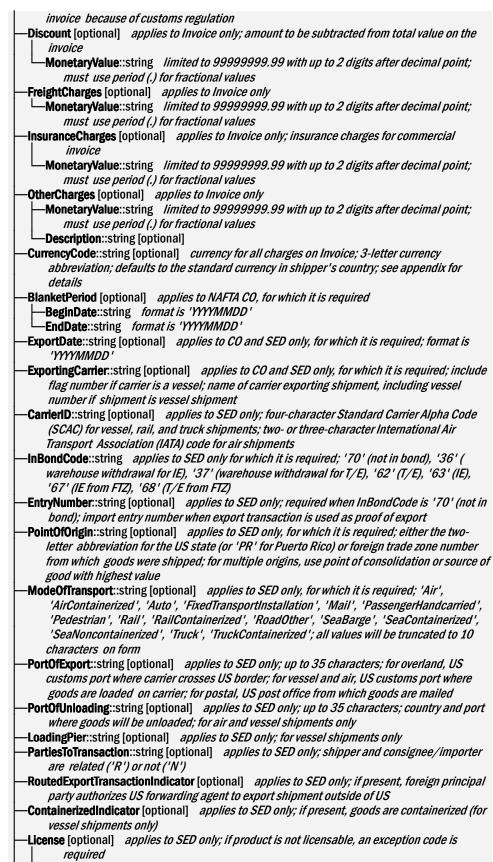
0 2 8 4 5 6 7



```
EndDate::string format is 'YYYYMMDD'
   PreferenceCriteria::string [optional] applies to NAFTA CO, for which it is required; 'A'
       through 'F'; see appendix for details
   ProducerInfo::string [optional] applies to NAFTA CO, for which it is required; 'Yes' (shipper
       is producer), 'No[1]' (CO based on knowledge of whether the good qualifies as an
       originating good), 'No[2]' (CO relies on producer's written representation that good
       qualifies as originating good), or 'No[3]' (complete and signed CO provided to exporter
       by producer)
   MarksAndNumbers::string [optional] applies to CO only; distinguishing marks or numbers
        appearing on package
   NumberOfPackagesPerCommodity::string [optional] applies to CO only, for which it is
        required: up to three digits
   ProductWeight [optional] only applies to SED and CO forms, for which it is required; weight
        including container(s) but not carrier equipment; units are 'KGS' or 'LBS'; weight is
        limited to 5 characters with up to one digit after decimal point
       UnitOfMeasurement [optional]
         -Code::string
       Weight::string up to 5 characters; up to one digit after the decimal place
   VehicleID::string [optional] only applies to SED forms; up to 25 characters; Vehicle
        Identification Number (VIN), product identification number for self-propelled vehicles
        without a VIN, or vehicle title number
   ScheduleB [optional] only applies to SED forms, for which it is required
      -Number::string exactly 10 characters
       Quantity::string how many of specified unit; for example, if unit is dozens, this value is
           how many dozens; required unless unit of measurement is 'X'
       UnitOfMeasurement
        Code::string 'BBL' (Barrel), 'CAR' (Carat), 'CM2' (Square Centimeter), 'CTN' (
               Content Ton), 'CUR' (Curie), 'CYK' (Clear Yield Kilogram), 'DOZ' (Dozen), 'DPC'
               (Dozen Pieces), 'DPR' (Dozen Pairs), 'FBM' (Fiber Meter), 'GCN' (Gross
               Containers), 'GM' (Gram), 'GRS' (Gross), 'HUN' (Hundreds), 'KG' (Kilograms),
               'KM3' (1,000 Cubic Meters), 'KTS' (Kilogram Total Sugars), 'L' (Liter), 'M' (
               Meter), 'M2' (Square Meters), 'M3' (Cubic Meters), 'MC' (Millicurie), 'N0'
              (Number), 'PCS' (Pieces), 'PFL' (Proof Liter), 'PK' (Pack), 'PRS' (Pairs), 'RBA' (
              Running Bales), 'SQ' (Squares), 'T' (Tons), 'THS' (thousands), 'X' (No quantity
              required)
   ExportType::string [optional] applies to SED forms, for which it is required; 'D' (domestic),
        'F' (foreign), or 'M' (foreign military); domestic exports are produced, manufactured, or
       grown in the United States or Puerto Rico, including merchandise which has been
       enhanced in value or changed from its imported form by further processing or
       manufacture in the United States or Puerto Rico; foreign exports are exported from the
       United States in the same form as their import; foreign military exports are sold under a
       foreign military sales program
   SEDTotalValue::string [optional] applies to SED forms, for which it is required; up to 15
        characters, with up to 2 digits after decimal place; always in US dollars
InvoiceNumber::string [optional] applies to Invoice only
InvoiceDate::string [optional] applies to Invoice only; required for forward shipments; will
    always be returned blank on return service; format is 'YYYYMMDD'
PurchaseOrderNumber::string [optional] applies to Invoice only
-TermsOfShipment::string [optional] applies to Invoice only; 'CFR' (Cost and Freight), 'CIF' (
    Cost, Insurance and Freight), 'CIP' (Carriage and Insurance Paid), 'CPT' (Carriage Paid To),
    'DAF' (Delivered at Frontier), 'DDP' (Delivered Duty Paid), 'DDU' (Delivered Duty Unpaid),
    'DEQ' (Delivered Ex Quay), 'DES' (Delivered Ex Ship), 'EXW' (Ex Works), 'FAS' (Free Along
   Side), 'FCA' (Free Carrier), 'FOB' (Free On Board)
ReasonForExport::string [optional] applies to Invoice only, for which it is required; 'SALE',
    'GIFT', 'SAMPLE', 'RETURN', 'REPAIR', 'INTERCOMPANYDATA', etc.
•Comments::string [optional] applies to Invoice only
DeclarationStatement::string [optional] statement(s) from the shipper declaring certain facts
    or criteria to be true; usually directed at customs or government agency or placed on
```

0 2 8 4 5 6 7





0 2 3 4 5 6 7

```
Number::string [optional] up to 35 characters; license number

Date::string [optional] date of license; format is 'YYYYMMDD'

ExceptionCode::string [optional] one to four characters; see appendix for details

ECCNNumber::string [optional] applies to SED only; export control classification number; required for license exception codes of CIV, CTP, ENC, KMI, and LVS; export control classification number; required for license exception codes of CIV, CTP, ENC, KMI, and LVS

AdditionalDocumentIndicator [optional] applies for peperless invoices only; if present client will supply additional documents such as a shipper export declaration, certificate of origin, or a Nafta certificate of origin
```

### **InternationalForms Example XML Fragment:**

```
<InternationalForms>
    <FormType>04</FormType>
    <Contacts>
        <Producer>
            <Option>01</Option>
            <CompanyName>Tree Service</CompanyName>
            <Address>
                 <AddressLine1>678 Elm St</AddressLine1>
                 <AddressLine2>Room 56</AddressLine2>
                 <AddressLine3>Dept 56</AddressLine3>
                 <Citv>Marietta</Citv>
                 <StateProvinceCode>GA</StateProvinceCode>
                 <PostalCode>30066</PostalCode>
                 <CountryCode>US</CountryCode>
            </Address>
            <PhoneNumber>4445556</PhoneNumber>
            <EmailAddress>abc@aol.com</EmailAddress>
            <TaxIdentificationNumber>ZZ123</TaxIdentificationNumber>
        </Producer>
    </Contacts>
    <Product>
        <FormType>04</FormType>
        <Description>Tree cut this week/Description>
        <CommodityCode>12345678</CommodityCode>
        <OriginCountryCode>US</OriginCountryCode>
        <JointProductionIndicator>JNT</JointProductionIndicator>
        <NetCostCode>NC</NetCostCode>
        <NetCostDateRange>
            <BeginDate>08012005</BeginDate>
            <EndDate>10152005</EndDate>
        </NetCostDateRange>
        <Pre><PreferenceCriteria>A</PreferenceCriteria>
        <ProducerInfo>No[1]</ProducerInfo>
    </Product>
    <BlanketPeriod>
        <BeginDate>01152005</BeginDate>
        <EndDate>08162005</EndDate>
    </BlanketPeriod>
</InternationalForms>
```

### **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.

Code	Severity	Explanation
10001	Hard	The XML document is not well formed
		The XML document is well formed but the document is
10002	Hard	not valid
		XML Shipping System is unavailable, please try again
120001	Transient	later.
		A Large Air Package Minimum Surcharge has been
120014	Warning	applied to Package %package.index%.
		Customs Invoice is required when the shipment is
120016	Warning	tendered to shipment
		If the value of the goods you are shipping is above 6,000 Euro or local equivalent, you must supply an EUR1 form
120017	Warning	in addition to signing your invoice.
		The location ID you provided is not valid. Valid location ID
120019	Warning	consists of 3 to 10 alpha numeric characters.
120020	Hard	Max packages per shipment exceeded.
		The same shipment cannot be requested to be created
120021	Hard	more than once.
100000	Morning	For packages with high value report: give them to a UPS driver or UPS Customer Center representative to ensure
120022	Warning	he signs one copy of the receipt and returns it to you.

Code	Severity	Explanation
		This is your proof that UPS has accepted the package(s),
100050		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 Shipper CountryCode
120109	Hard	Missing/Invalid Shipper PhoneNumber
120110	Hard	Missing/Invalid Shipper AttentionName
		Shipper EmailAddress cannot exceed a length of 50
120111	Hard	characters
120112	Hard	Shipper EmailAddress is an invalid format
		Shipper number must contain alphanumeric characters
120113	Hard	only
120114	Hard	Shipper phone extension cannot exceed the length of 4.
		Shipper PhoneNumber must be at least 10 alphanumeric
120115	Hard	characters
120116	Hard	Shipper phone extension must contain only numbers
		Shipper phone extension is allowed only if the shipper is
120117	Hard	located in US, Puerto Rico or Canada
		Shipper phone extension is only valid if a phone number
120118	Hard	is given
		Shipper phone number and phone extension together
120119	Hard	cannot be more than 15 digits long
		The country associated with Shipper's ShipperNumber
120120	Hard	must be the same as the shipments ShipFrom's country.
		The Shipper's shipper number cannot be used for the
120121	Hard	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
. 20200	. iaia	ShipTo EmailAddress cannot exceed a length of 50
120210	Hard	characters
120210	Hard	ShipTo EmailAddress is an invalid format
120211	Hard	ShipTo PhoneExtension cannot exceed the length of 4.
120212	riara	ShipTo PhoneNumber must be at least 10 alphanumeric
120213	Hard	characters
120213	Hard	ShipTo PhoneExtension must contain only numbers
120214	ilaiu	ShipTo PhoneExtension in only valid if a phone number is
120216	Hard	given
120217	Hard	ShipTo phone number and phone extension together
120211	ilaiu	ompro priorie namber and priorie extension together

Code	Severity	Explanation
Ooue	Severity	cannot be more than 15 digits long
120300	Hard	Missing/Invalid ShipFrom CompanyName
120301	Hard	Missing/Invalid ShipFrom AttentionName
120302	Hard	Missing/Invalid ShipFrom AddressLine1
120303	Hard	Invalid ShipFrom AddressLine2
120304	Hard	Invalid ShipFrom AddressLine3
120304	Hard	Missing/Invalid ShipFrom City
120303	Hard	Missing/Invalid ShipFrom StateProvinceCode
120300	Hard	Missing/Invalid ShipFrom PostalCode. (Description)
	Hard	Missing/Invalid/Unsupported ShipFrom CountryCode
120308		
120309	Hard	Missing/Invalid ShipFrom PhoneNumber
100010	المسط	ShipFrom EmailAddress cannot exceed a length of 50
120310	Hard	characters
120311	Hard	ShipFrom EmailAddress is an invalid format
120312	Hard	ShipFromPhoneExtension cannot exceed the length of 4.
		ShipFrom PhoneNumber must be at least 10
120313	Hard	alphanumeric characters
120314	Hard	ShipFromPhoneExtension must contain only numbers
		ShipFromPhoneExtension is only valid if a phone number
120316	Hard	is given
		The ShipFrom country must be the same as the Shipper
120317	Hard	country
		ShipFrom phone number and phone extension together
120318	Hard	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
		The credit card provided as the payment method has
120407	Hard	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}
		The UPS account number provided as the payment
120413	Hard	method cannot be billed, please try another account.
00		Credit card authorization failed, contact your financial
120414	Hard	institution
0	i iai a	PaymentInformation/Prepaid/BillShipper/AccountNumber
		must be the same shipper number as
120415	Hard	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
120437	Hard	Missing/Invalid Service/Code
120500	Hard	Invalid Shipment/ReferenceNumber/Value
120501	Hard	InvoiceLineTotal/MonetaryValue must be greater than 0
120302	паги	Shipment Description cannot exceed the length of 35
100500	Hand	· · · · · · · · · · · · · · · · · · ·
120503	Hard	characters
120504	Hard	InvoiceLineTotal is not allowed for this shipment
100505	11	Saturday Delivery Option cannot be used for this
120505	Hard	shipment
120506	Hard	Invalid Shipment/ReferenceNumber/ Code
120508	Hard	Missing/Invalid On Call Air pickup date

Code	Severity	Explanation
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.
		{ notification type} Memo cannot exceed the length of 150
120515	Hard	characters
		The {order} Email Address used for { notification type}
120517	Hard	exceeds the maximum length of 50 characters
		The format of the {order} Email Address entered for {
120518	Hard	notification type} is invalid
		The {order} Email Address entered for { notification type}
120519	Hard	is missing or contains invalid characters
		For a shipment, the maximum number of Email
120520	Hard	Addresses allowed for Quantum View Notification is 5
		For a shipment, the maximum number of Memos allowed
120521	Hard	for {Quantum View notification type} is 1
.20021	. iaia	Alternate Delivery Time is not valid for any available
120522	Hard	services
ILOULL	riara	Shipment/DocumentsOnly is invalid with the shipment's
120523	Hard	orgin/destination pair
120020	riara	Package Pickup Request is not available with this
120524	Hard	shipment's service
120024	паги	InvoiceLineTotal/MonetaryValue may not exceed the
120526	Hard	length of 8
120526	Hard	Cannot use multiple types of currency in a shipment
120021	паги	
100500	Hand	A shipment can have only one type of
120528	Hard	UnitOfMeasurement for Dimensions
100500	Hand	A shipment can have only one type of
120529	Hard	UnitOfMeasurement for a Weight
100500	111	SuiteRoomID length of shipment pickup cannot exceed 8
120530	Hard	characters
100501	111	FloorID length of shipment pickup cannot exceed 3
120531	Hard	characters
100500	Hand	Location length of shipment pickup cannot exceed 11
120532	Hard	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
		Shipment Pickup Error: (further description is provided in
120538	Hard	XML)
		InvoiceLineTotal/ MonetaryValue is required and must be
120539	Hard	a whole number
120540	Hard	On Call Air Pickup is not available for this shipment
		Shipment/ReferenceNumber is not allowed for this
120541	Hard	shipment
		Package/ReferenceNumber is not allowed for this
120542	Hard	shipment
		No more than 2 Shipment/ReferenceNumber can be
120543	Hard	given per shipment
		No more than 2 Package/ReferenceNumber can be
120544	Hard	given per package
120545	Hard	Shipment/Description is not valid with this shipment
		(UOM Weight) is not a valid unit of measurement for
120546	Hard	weight for this shipment
		-

Code	Severity	Explanation
		(UOM Dimension) is not a valid unit of measurement for
120547	Hard	dimensions.
		A shipment cannot have a KGS/IN or LBS/CM as its unit
120548	Hard	of measurements
120549	Hard	Invalid ReferenceNumber/BarCodeIndicator.
100550		Shipment/ReferenceNumber[(reference numer)]/Value
120550	Hard	cannot be bar-coded
100551	المعط	Package{sequence} /ReferenceNumber[(reference
120551 120552	Hard Hard	numer)]/Value cannot be bar-coded
120552	паги	LabelLinkIndicator is not allowed for the shipment.  ReferenceNumber/BarCodeIndicator is not allowed with
120553	Hard	the shipment.
120000	riara	Invalid COD currency code. Please use the destination
120597	Hard	country currency code.
		Package Delivery Confimation is not allowed with the
120598	Hard	shipment origin/destination
120599	Hard	Invalid package Delivery Confirmation type
120600	Hard	Missing Package/Packag ingType/Code
120601	Hard	Missing/Invalid Package weight
		Missing/Invalid Combination of package length, width,
120602	Hard	and height values.
120603	Hard	Invalid Package/Reference/Value
120604	Hard	Invalid package declared value
120605	Hard	Mismatch package dimensions with package type Mismatch package dimensions, package type and
120606	Hard	package weight
120607	Hard	Invalid Package/Reference/Code
120608	Hard	Package weight is required
		All Package Dimensions are required and each must be
120609	Hard	greater than 0
120610	Hard	Invalid COD monetary value
		The contact name of verbal confirmation cannot exceed a
120611	Hard	length of 35
100010	11	The contact phone number of verbal confirmation cannot
120612	Hard	exceed the length of 15
120613	Hard	The contact phone number of verbal confirmation must
120013	паги	be at least 10 alphanumeric characters  The contact phone extension of verbal confirmation
120614	Hard	cannot exceed the length of 4
120014	Tiara	The contact phone extension of verbal confirmation must
120615	Hard	contain numbers only
120616	Hard	Package weight cannot exceed a length of 6
120617	Hard	Package declared value cannot exceed a value of 999
		Contact name is required for verbal confirmation of
120618	Hard	delivery
		Contact phone number is required for verbal confirmation
120619	Hard	of delivery
		Package/PackageWeight, Package/DimensionalWeight,
100000	المسط	Package/OversizePackage and Package/Dimensions do
120620	Hard	not apply to UPS Envelopes Package declared value cannot be greater than
120621	Hard	{Monetary Amount} {Currency Code}
120621	Hard	Package description is required
120622	Hard	Invalid Package description
120624	Hard	Only one package is allowed for this movement.
	<del>-</del> -	, , , , , , , , , , , , , , , , , , , ,

Code	Severity	Explanation	
120625	Hard	Invalid/Missing Shipment/ReturnServiceCode	
120020	riara	The COD Funds Code is invalid. Please check the value	
120626	Hard	entered	
120627	Hard	The COD Code is invalid. Please check the value entered	
120644	Hard	LabelDelivery is not valid for the shipment	
120645	Hard	Return Notification is not valid for the shipment	
00.0		Invalid	
120649	Hard	ShipmentServiceOptions/Notification/NotificationCode	
		Invalid PackageServiceOptions/	
120650	Hard	Notification/NotificationCode	
		No more than two email addresses for Receiver Return	
120654	Hard	Notification are allowed in a shipment	
		{Email field} of Receiver Return Notification is only	
120655	Hard	allowed to be specified at the first package.	
		Receiver Return Notification is not allowed for the	
120658	Hard	shipment without return service	
		ShipmentServiceOptions/ShipmentNotification is not	
120659	Hard	allowed with return service	
		ShipmentServiceOptions/ShipmentNotification is not	
120660	Hard	allowed with ShipmentServiceOptions/Notification	
		For a shipment, the maximum number of {email field}	
120661	Hard	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	
		The quantity of packages that have a declared value over	
		999 USD or equivalent in this shipment exceeds 9	
120680	Hard	packages, please limit the number of declared value	
120000	паги	packages to 9. Missing/Invalid LabelSpecification/	
120700	Hard	LabelPrintMethod/Code	
120700	Hard	Missing/Invalid LabelSpecification/ HTTPUserAgent	
120701	riara	Missing/Invalid LabelSpecification/	
120702	Hard	LabelImageFormat/Code	
120702	riara	Missing/Invalid Combination of LabelSpecification/	
120703	Hard	LabelStockSize	
120704	Hard	Missing/Invalid LabelSpecification/ LabelStockSize/Height	
120705	Hard	Missing/Invalid LabelSpecification/LabelStockSize/Width	
120801	Hard	Address Validation Error on Shipper address	
120802	Hard	Address Validation Error on ShipTo address	
120803	Hard	Address Validation Error on ShipFrom address	
		Address Validation Warning on Shipper address.	
120804	Warning	{Description}	
		Address Validation Warning on ShipTo address.	
120805	Warning	{Description}	
		Address Validation Warning on ShipFrom address	
120806	Warning	{Description}	
		User Id and Shipper Number combination is not eligible	
120900	Warning	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	

Code	Severity	Explanation
Code	Severity	Services option.
		The Saturday Delivery option cannot be combined with
121015	Hard	the Return Services option.
121010	riara	The Delivery Confirmation option cannot be combined
121020	Hard	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}
		The Return Services are unavailable with the requested
121040	Hard	service.
		The Saturday Delivery option is unavailable with the
121045	Hard	requested service.
		Saturday Delivery may not be combined with the package
121047	Hard	type for the given product.
		Package exceeds the maximum size total constraints {
121050	Hard	description}
		Package exceeds the maximum length constraint of
121055	Hard	{desription} inches
		Package exceeds the maximum length constraint of
121056	Hard	{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}.
101005	11	The requested accessory cannot be added to the
121085	Hard	shipment.
101007	المسط	The Authorized Return Service option is not allowed for
121087 121090	Hard Hard	shipments. {Rating error description}
121090	Hard	{Rating error description}
121100	Hard	The selected service is invalid for the shipment origin.
121100	riara	The given accessory key is invalid for the shipment
121105	Hard	origin.
121106	Hard	The specified country, origin or dest, is not supported.
121107	Hard	A blank origin postal was specified.
121115	Hard	The COD amount must be greater than zero
		The COD amount cannot exceed \$1,000 when a cashiers
121120	Hard	check or money order is requested.
		The COD value entered exceeds the maximum allowed
121121	Hard	for cash of {amount} ({currency code})
121125	Hard	The COD amount cannot exceed \$50,000.
		The COD value entered exceeds the maximum allowed
121126	Hard	for check of {amount} ({currency code})
		The Saturday Pickup option cannot be combined with the
121135	Hard	Saturday Delivery option.
121140	Hard	Saturday Pickup is unavailable with the selected service.
101150	11	Delivery confirmation is unavailable with the selected
121150	Hard	service.
		The COD option is unavailable with the selected service,
101155	Hard	UPS account type, and/or with the shipments
121155 121160	Hard	origin/destination pair.
121100	naiu	The accessory is invalid with the billing option.  The Verbal Confirmation of Delivery option cannot be
121165	Hard	combined with the Return Services option.
121103	riaiu	combined with the return dervices option.

Code	Severity	Explanation	
Code	Severity	The Delivery Confirmation option cannot be combined	
121170	Hard	with the Verbal Confirmation of Delivery option.	
121170	Tialu	Verbal Confirmation of Delivery is unavailable with the	
121175	Hard	selected service.	
121180	Hard	Consignee Billing is unavailable with the selected service.	
121185	Hard	The selected service is unavailable to the desired country	
121105	Tialu	The selected billing option is unavailable with the	
121195	Hard	selected service.	
121195	Паги	The selected billing option is unavailable with UPS	
121196	Hard	Letters.	
121130	Hard	Saturday Delivery is unavailable to desired destination.	
121200	Haiu	Additional Handling is unavailable with the selected	
121205	Hard	service.	
121206	Hard	Additional Handling is unavailable with UPS Letters.	
121200	Паги	UPS Next Day Air Early A.M. service is not available to	
		the requested destination. Please select UPS Next Day	
121208	Hard	Air service as an alternative.	
121200	Паги	The selected service is not available from the origin to the	
121210	Hard	destination.	
121210	Hard	Rating Error: (Description)	
121211	Hard	Rating error description)	
121212	Hard		
121213	паги	{Rating error description}	
121214	Hard	UPS cannot ship from the origin country to the destination country	
121214	Паги	The selected service is not available to residential	
101015	Hord		
121215 121225	Hard Hard	destinations.	
121225	Hard	Return Services are unavailable to the given destination.	
101000	Hard	Next Day Air Early AM Surcharge is unavailable with the	
121230	паги	selected service. Switzerland Domestic Container must weigh greater than	
121231	Hard	2 KG	
121231	Паги	Worldwide Express Plus from Europe to Switzerland must	
121232	Hard	be UPS Envelope or document only	
121235	Hard	{rating error description}	
121200	Tialu	Saturday Pickup and Shipper Duty Fees cannot be	
121245	Hard	applied to the same package.	
121243	Tialu	Saturday Delivery and Shipper Duty Fees cannot be	
121250	Hard	applied to the same package.	
121230	Tialu	Shipper Duty Fee is unavailable with the selected	
121255	Hard	service.	
121233	Tiara	Shipper Duty Fee is unavailable with the selected billing	
121260	Hard	option.	
121261	Hard	Accessory may not be combined with the product.	
121262	Hard	Accessory may not be combined with the accessory.	
121202	riara	The selected billing option is unavailable to the desired	
121265	Hard	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}	
121200	Tidiu	Shipper Pays Duty - Tax Unpaid is unavailable with the	
121300	Hard	selected accessorial.	
	· iaia	33.33.33 43333331.a.i	

Code	Severity	Explanation	
Oode	Severity	Shipper Pays Duty - Tax Unpaid is unavailable with the	
121305	Hard	selected service.	
121310	Hard	Shipper Pays Duty - Tax Unpaid is unavailable with the selected billing option.	
121010	Tiara	The Authorized Return Service is unavailable with the	
121315	Hard	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.	
121330	паги	The Certificate of Origin is unavailable with the selected	
121335	Hard	service.	
121340	Hard	The Certificate of Origin is unavailable with the selected billing option.	
		The Shipper Export Declaration is unavailable with the	
121345	Hard	selected accessorial.  The Shipper Export Declaration is unavailable with the	
121350	Hard	selected service.	
101055	Hand	The Shipper Export Declaration is unavailable with the	
121355	Hard	selected billing option. The Worldwide Express Plus Surcharge is unavailable	
121360	Hard	with the selected service.	
121363	Hard	The One Time Pickup Surcharge is unavailable with the selected service.	
121000		Accessorial is not available with the selected access	
121365	Hard Hard	method.	
121370	паги	Invalid access method.  Letter service is invalid for shipments with more than 1	
121375	Hard	package. International shipment cannot be made with multiple 10KG or 25KG packages	
		Shipments cannot exceed a COD amount of \$5,000 when	
121460	Hard	requesting a cashiers check or money order.	
121500	Hard Hard	{Rating error description}	
121501		{Rating error Description}	
121510	Hard	Unsupported package type type.	
121511 121512	Hard	Unsupported accessory type	
121512	Hard Hard	Unsupported billing option	
121513	Haro	Unsupported service Weight of (actual weight) exceeds maximum for rating the	
121515	Warning	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	
		The payment information must be the same for both Transportation charges and Duty and Tax charges when	
121522	Hard	Bill to Shipper or Bill to Receiver is specified as the payer.	
121523	Hard	Invalid GoodsNotInFreeCirculationIndicator	
		The payer of Duty and Tax charges is not required for UPS Letter, Documents of No Commercial Value or	
121524	Warning	Qualified Domestic Shipments.	
101500	11	The payment method specified for Transportation	
121526	Hard	charges is invalid for return service.	
121527	Hard	The payer of Transportation charges is required.	

Severty   Explanation   Missing or invalid   ItemizedPaymentInformation/ShipmentCharge/Type   A single payment method is required per shipment charge.   The payer of Duty and Tax charges is required.   Invalid SplitDutyVATIndicator   The payer of Duty and Tax charges is invalid for Split Duty VAT shipment.   The payer of Transportation charges and the payer of Duty and Tax charges must not be the same for Split Duty VAT shipment.   The payer of Transportation charges and the payer of Duty and Tax charges must not be the same for Split Duty VAT shipment.   The payer of Transportation charges is invalid for Split Duty VAT shipment.   Bill Receiver is an invalid payer of an international return movement.   A payer is required when specifying a shipment charge.   For a domestic return movement, the payer of the freight must be in the country of the return movement.   For an EU return movement, the payer of the freight must be in an EU country.   The country selected for transportation charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow for Third Party payment option.   The country selected for duty/taxes charges does not allow fo	Missing or invalid ItemizedPaymentInformation/ShipmentCharge/Type A single payment method is required per shipment charge.  121529 Hard Charge.  121531 Hard Invalid SplitDutyVATIndicator The payer of Duty and Tax charges is required.  121532 Hard Duty VAT Shipment.  121533 Hard The payer of Transportation charges and the payer of Duty and Tax charges must not be the same for Split Duty VAT shipment.  121534 Hard Duty VAT Shipment.  121535 Hard Duty VAT Shipment.  121536 Hard Duty VAT Shipment.  121537 Hard A payer is required when specifying a shipment charge. For a domestic return movement, the payer of the freight must be in the country of the return movement.  121539 Hard Duty VAT Shipment.  121539 Hard Duty VAT Shipment.  121530 Hard Hard Interest Duty VAT Shipment.  121530 Hard Hard Hard Duty Interest Duty Selected for transportation charges does not allow for Third Party payment option.  121801 Hard Interest Duty Selected for duty/taxes charges does not allow for Third Party payment option.  123010 Warning Package(s) in this shipment contains a warning: (Description)  123020 Warning Package (index of the package).  129001 Warning Package (index of the package).  129002 Warning Package (index of the package).  129003 Warning Package (index of the package).  129004 Warning Package (index of the package).  129005 Warning Package (index of the package).  129006 Warning Package (index of the package).  129007 Hard Party Dayment option.  129008 Warning Package (index of the package).  129009 Warning Package (index of the package).  129010 Hard Party Dayment option (Pating error description)  129011 Hard Party Package Package (index of the package).  129012 Hard Party Package Package Package (index of the package).  129013 Hard Package Package Package Package (index of the package).  129014 Hard Party Package Packag	Code	Correnter	Evalenation		
121528 Hard ItemizedPaymentInformation/ShipmentCharge/Type A single payment method is required per shipment charge.  121530 Hard The payer of Duty and Tax charges is required.  121531 Hard Invalid SplitDutyVATIndicator The payer of Duty and Tax charges is invalid for Split Duty VAT shipment.  121532 Hard Duty VAT shipment.  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 Duty VAT shipment.  121536 Hard Duty VAT shipment.  121537 Hard A payer is required when specifying a shipment charge. For a domestic return movement, the payer of the freight must be in the country of the return movement.  121539 Hard Error at Duty Country.  121601 Hard Hard Allow for Third Party payment option.  121801 Hard Hard Allow for Third Party payment option.  121802 Hard Hard Hard Allow for Third Party payment option.  122301 Warning 123020 Warning 129001 Warning 129001 Warning 129001 Warning 129001 Warning 129001 Warning 129001 Warning 129002 Warning 129004 Warning 129005 Warning 129005 Warning 129005 Warning 129006 Warning 129006 Warning 129006 Warning 129007 Warning 129008 Warning 129008 Warning 129009 Warnin	121528 Hard ItemizedPaymentInformation/ShipmentCharge/Type A single payment method is required per shipment charge. 121530 Hard The payer of Duty and Tax charges is required. 121531 Hard Invalid SplitDutyVATIndicator The payer of Duty and Tax charges is invalid for Split Duty VAT shipment. 121532 Hard Duty VAT shipment. 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 Duty VAT shipment. 121536 Hard Duty VAT shipment. 121537 Hard A payer is required when specifying a shipment charge. 121538 Hard A payer is required when specifying a shipment charge. 121539 For a domestic return movement, the payer of the freight must be in the country of the return movement. 121539 For a domestic return movement, the payer of the freight must be in an EU country. 121801 Hard Invalid Ship To payer to dillow for Third Party payment option. 121802 Hard Invalid Ship Tron postal code 121803 Warning Package(s) in this shipment contains a warning: 123010 Warning Invalid Ship To postal code 129001 Warning Invalid Ship To postal code 129002 Warning Invalid Ship To postal code 129003 Warning Invalid Ship To postal code 129004 Warning Invalid Ship To postal code 129005 Warning Invalid Ship To postal code 129006 Warning Invalid Ship To postal code 129007 Warning Invalid Ship To postal code 129008 Warning Invalid Ship To postal code 129009 Warning Invalid Ship To postal code 129000 Warning Invalid Ship To postal code 129001 Hard Mail option is 999 USD 129005 The maximum declared value amount for the 1-Attempt option is 50,000 USD 129015 Hard Delivery option is 999 USD 129016 The maximum declared value amount for the S-Attempt option is 50,000 USD 129017 Warning Invalid Ship To postal code Invalid Ship To postal code 129019 Hard Geard Postage Ship Postage of Invalid For the S-Attempt option is 50,000 USD 129010 Hard General process failure Package Level COD is not valid for the shipment origin and/or destination 129010 Warning Invalid Ship Tor o	Code	Severity			
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129017 Warning {Rating error description}.  129018 Warning {Rating error description}.  129019 Hard {Rating error description}  20001 Hard General process failure  Package Level COD is not valid for the shipment origin and/or destination  Ship To Address Classification from AMS subsystem is	129017 Warning {Rating error description}.  129018 Warning {Rating error description}.  129019 Hard {Rating error description}  20001 Hard General process failure  Package Level COD is not valid for the shipment origin and/or destination  Ship To Address Classification from AMS subsystem is 129020 Warning different from user indicated.	120915	Hard			
129018 Warning {Rating error description}.  129019 Hard {Rating error description}  20001 Hard General process failure  Package Level COD is not valid for the shipment origin and/or destination Ship To Address Classification from AMS subsystem is	129018 Warning {Rating error description}.  129019 Hard {Rating error description}  20001 Hard General process failure  Package Level COD is not valid for the shipment origin and/or destination  Ship To Address Classification from AMS subsystem is 129020 Warning different from user indicated.					
129019 Hard {Rating error description} 20001 Hard General process failure Package Level COD is not valid for the shipment origin and/or destination Ship To Address Classification from AMS subsystem is	129019 Hard {Rating error description} 20001 Hard General process failure Package Level COD is not valid for the shipment origin and/or destination Ship To Address Classification from AMS subsystem is 129020 Warning different from user indicated.			, ,		
Package Level COD is not valid for the shipment origin and/or destination  Ship To Address Classification from AMS subsystem is	Package Level COD is not valid for the shipment origin and/or destination Ship To Address Classification from AMS subsystem is different from user indicated.	129019	Hard	{Rating error description}		
121156 Hard and/or destination Ship To Address Classification from AMS subsystem is	121156 Hard and/or destination Ship To Address Classification from AMS subsystem is 129020 Warning different from user indicated.	20001	Hard			
Ship To Address Classification from AMS subsystem is	Ship To Address Classification from AMS subsystem is 129020 Warning different from user indicated.					
	129020 Warning different from user indicated.	121156	Hard			
129020 Warning different from user indicated.		100000	\\/'			
	129021 Hard Both Security code and Billing address are required if					
129021 Hard bottl Security code and Billing address are required if		129021	naru	both Security code and billing address are required if		

Code	Severity	Explanation		
		credit card information is provided.  This credit card has been locked due to multiple		
		unsuccessful validation attempts. Please use another		
129022	Hard	credit card to continue or try again later.		
129046	Hard	Missing credit card billing address line 1		
129048	Hard	Missing credit card billing address city		
129049	Hard	Missing credit card billing address state province code		
129050	Hard	Missing credit card billing address postal code		
129051	Hard	Missing credit card billing address country code		
129070	Warning	{Rating error description}		
	Ū	The requested service is unavailable between the		
120124	Hard	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		
		Invalid ultimate consignee address line 3. Valid length is 0		
128014	Hard	to 35 alphanumeric		
100015		Invalid or missing ultimate consignee city. Valid length is		
128015	Hard	1 to 30 alphanumeric		
100010	Hand	Invalid ultimate consignee state province code. Valid		
128016	Hard	length is 0 to 5 alphanumeric		
128017	Hard	Invalid ultimate consignee postal code. Valid length is 0 to 9 alphanumeric		
128017	Hard	Invalid or missing ultimate consignee country code		
120010	Haru	Invalid or missing utilinate consignee country code  Invalid or missing intermediate consignee company		
128019	Hard	name. Valid length is 1 to 35 alphanumeric		
.200.0	· iai a	Invalid or missing intermediate consignee address line 1.		
128020	Hard	Valid length is 1 to 35 alphanumeric		
		Invalid intermediate consignee address line 2. Valid		
128021	Hard	length is 0 to 35 alphanumeric		
		Invalid intermediate consignee address line 3. Valid		
128022	Hard	length is 0 to 35 alphanumeric		
		Invalid or missing intermediate consignee city. Valid		
128023	Hard	length is 1 to 30 alphanumeric		
100001	11	Invalid intermediate consignee state province code. Valid		
128024	Hard	length is 0 to 5 alphanumeric		
100005	Hard	Invalid intermediate consignee postal code. Valid length		
128025 128026	Hard	is 0 to 9 alphanumeric Invalid or missing intermediate consignee country code		
120020	Haiu	Invalid or missing intermediate consignee country code Invalid or missing producer option. Valid values are 01,		
128027	Hard	02, 03 or 04		
120027	riara	Invalid or missing producer company name. Valid length		
128028	Hard	is 1 to 35 alphanumeric		
		Invalid or missing producer address line 1. Valid length is		
128029	Hard	1 to 35 alphanumeric		
		Invalid producer address line 2. Valid length is 0 to 35		
128030	Hard	alphanumeric		
		Invalid producer address line 3. Valid length is 0 to 35		
128031	Hard	alphanumeric		
10000		Invalid or missing producer city. Valid length is 1 to 30		
128032	Hard	alphanumeric		
100000	Hard	Invalid producer state province code. Valid length is 0 to 5		
128033	паги	alphanumeric Invalid producer postal code. Valid length is 0 to 9		
128034	Hard	alphanumeric		
128035	Hard	Invalid or missing producer country code		
0000	· iaia	as or misoning productor country code		

Code	Severity	Explanation
Code	Seventy	Invalid producer phone number. Valid length is 0 to 15
128036	Hard	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
128039	Hard	Invalid number of products. Valid number of products are 1 to 4
128041	Hard	The form specified 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
120043	Haiu	Invalid or missing
128044	Hard	Product/Unit/UnitOfMeasurement/Code. Valid length is 1 to 3 alphanumeric
120011	Hara	Product/Unit/UnitOfMeasurement/Description is required
100045	Hand	when Product/Unit/UnitOfMeasurement/Code is "OTH".
128045	Hard	Valid length is 1 to 3 alphanumeric Invalid or missing product unit value. Valid length is 1 to
128046	Hard	12 numeric and it can hold up to 6 decimal places
128047	Hard	Invalid part number. Valid length is 0 to 10 alphanumeric
100040	المسط	Invalid commodity code. Valid length is 6 to 15
128048 128049	Hard Hard	alphanumeric Invalid or missing product origin country code
120043	Παια	Invalid or missing product origin country code  Invalid or missing net cost code. Valid values are NC or
128050	Hard	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]
		Invalid or missing marks and numbers. Valid length is 1 to
128055	Hard	35 alphanumeric Invalid or missing product weight unit of measurement
128056	Hard	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
12001	. iaia	Schedule B quantity is required when the schedule B
128062	Hard	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

Code	Severity	Explanation
		Invalid invoice number. Valid length is 0 to 35
128065	Hard	alphanumeric
		Invalid or missing invoice date. Valid format is
128066	Hard	MMDDYYYY
100067	Hord	Invalid purchase order number. Valid length is 0 to 35
128067 128068	Hard Hard	alphanumeric Invalid terms of shipment.
120000	Tialu	Invalid or missing reason for export. Valid length is 1 to
128069	Hard	20 alphanumeric
		Invalid additional comments. Valid length is 0 to 150
128070	Hard	alphanumeric
		Invalid declaration statement. Valid length is 0 to 250
128071	Hard	alphanumeric
		Invalid discount monetary value. Valid length is 0 to 15
128072	Hard	numeric and can hold up to 2 decimal places. Discount can not be greater than the invoice line total.
120072	паги	Invalid freight charges monetary value. Valid length is 0 to
128073	Hard	15 numeric and can hold up to 2 decimal places.
	1 1011 0	Invalid other charges monetary value. Valid length is 0 to
128074	Hard	15 numeric and can hold up to 2 decimal places.
		Invalid or missing other charges description. Valid length
128075	Hard	is 1 to 10 alphanumeric
100070	Hand	Invalid or missing blanket period begin date. Valid format
128076	Hard	is MMDDYYYY Invalid or missing blanket period end date. Valid format is
128077	Hard	MMDDYYYY
120077	riara	Invalid or missing export date. Valid format is
128078	Hard	MMDDYYYY
		Invalid or missing export carrier. Valid length is 1 to 35
128079	Hard	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
120001	паги	Entry number is required when the in bond code is other
128082	Hard	than 70. Valid Length is 1 to 25 alpha numeric
		Invalid or missing point of origin. Valid length is 1 to 5
128083	Hard	alphanumeric
		Invalid or missing mode of transport. Valid length is 1 to
128084	Hard	35 alphanumeric
128085	Hard	Invalid port of export. Valid length is 0 to 35 alphanumeric
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
120007	Tidid	Invalid or missing parties to transaction. Valid values are
128088	Hard	R or N
		Invalid license number. Valid length is 0 to 35
128089	Hard	alphanumeric
400000		Invalid or missing license date. Valid format is
128090	Hard	MMDDYYYY
128091	Hard	Invalid license exception code. Valid length is 0 to 3 alphanumeric
120091	Halu	Either license number or license exception code must be
128092	Hard	present for a SED form.
		Invalid ECCN number code. Valid length is 1 to 3
128093	Hard	alphanumeric

Code	Severity	Explanation
Code	Severity	Sold to information is required when an invoice or NAFTA
128094	Hard	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
		Invalid sold to address line 2. Valid length is 0 to 35
128097	Hard	alphanumeric Invalid sold to address line 3. Valid length is 0 to 35
128098	Hard	alphanumeric Invalid or missing sold to city. Valid length is 1 to 30
128099	Hard	alphanumeric Invalid sold to state province code. Valid length is 0 to 5
128100	Hard	alphanumeric
128101	Hard	Invalid sold to postal code. Valid length is 0 to 9 alphanumeric
128102	Hard	Invalid or missing sold to country code
		The selected international form is not valid for the
128103	Hard	shipment origin country
100101	111	Invalid product origin country for the selected
128104	Hard	international form The selected international form is not valid for the
128105	Hard	shipment origin and destination countries
		Invalid or missing sold to attention name. Valid value is 1
128109	Hard	to 35 alphanumeric
128110	Hard	Invalid sold to option. Valid values are 01 or 02
128111	Hard	Commodity code is required for NAFTA CO
		Invalid insurance monetary value. Valid length is 0 to 15
128112	Hard	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
120113	паги	Invalid or missing currency code. Valid length is 3
128114	Hard	alphanumeric.
100115		Invalid or missing sold to phone number. Valid length is 1
128115	Hard	to 15 alphanumeric. Invalid sold to tax identification number. Valid length is 1
128116	Hard	to 15 alphanumeric.
128117	Hard	Invalid or missing Shipper tax identification.
120117	riara	Invalid license information. Either license number and
		license date or license exception code and ECCN
		number must be present. Both the combinations can not
128118	Hard	be present together.
		Invalid or missing product number of packages per
128119	Hard	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.
		Invoice cannot be requested for non-document forward
128123	Hard	shipments.
128124	Hard	Invalid blanket period.
128125	Hard	Invalid or missing ShipFrom tax identification.
		Invalid or missing SED filing option. SED filing option is required when SED form is requested. Valid values are
128126	Hard	01 and 02.
128201	Hard	Invalid international forms form type for shipment with

Code	Severity	Explanation
		return service. Valid value is 01.
		International forms can not be requested for letters or
128202	Hard	documents.
		Shipper Number {0} does not support pallet Contract
129058	Hard	Service.
		Shipper Number (0) does not support Third Country
129059	Hard	Contract Service.
129076	Hard	Pallets may not be included with other package types.
129077	Warning	A dimensional surcharge has been added to pallet {0}.
		The maximum dimensions for a pallet are 200 cm by 160
129078	Hard	cm by 120 cm.
		The requested service is not valid with pallets with a
		weight greater than 1000kg. Please select Dedicated
129079	Hard	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
		Only future date pickup is available for pickup requests
100000		for the requested origin and destination and selected
129090	Hard	service

### **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 providing 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://onlinetools.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

# Appendix A: Sample Shipping and Return Labels

The following figures show sample shipping and return labels that UPS provides.

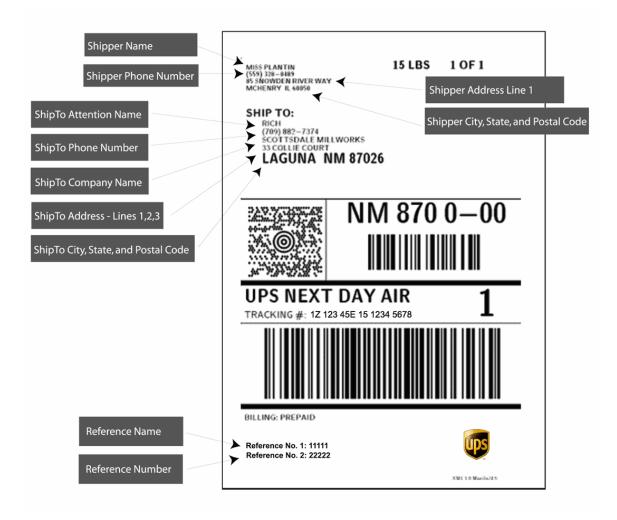


Figure 22. Sample Shipping Label



Figure 23. Sample Return Label

# **Appendix B: Shipping and Tracking Numbers for Void 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 www.cie.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)	Description	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.
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,	Multi-package shipment	A successful shipment

1Z12345E8635481269, 1Z12345E1593518308	with a package that cannot be voided.	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 level. A failed XML response will be returned. Error Code 190112, Return Service Shipments cannot be Voided at the Package Level.

# **Appendix C: UPS 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 <a href="http://www.ups.com">http://www.ups.com</a>.

Code	United States Domestic Shipments
01	UPS Next Day Air®
02	UPS Second Day Air®
03	UPS Ground
12	UPS Three-Day Select®
13	UPS Next Day Air Saver®
14	UPS Next Day Air® Early A.M. SM
59	UPS Second Day Air A.M.®
65	UPS Saver

Code	Shipments Originating in United States
01	UPS Next Day Air®
02	UPS Second Day Air®
	UPS Ground
07	UPS Worldwide Express <sup>SM</sup>
80	UPS Worldwide Expedited <sup>SM</sup>
11	UPS Standard
12	UPS Three-Day Select®
14	UPS Next Day Air® Early A.M. SM
54	UPS Worldwide Express Plus <sup>SM</sup>
59	UPS Second Day Air A.M.®
65	UPS Saver

Code	Shipments Originating in Puerto Rico
01	UPS Next Day Air®
02	UPS Second Day Air®
	UPS Ground
07	UPS Worldwide Express <sup>SM</sup>
80	UPS Worldwide Expedited <sup>SM</sup>
14	UPS Next Day Air® Early A.M. SM
54	UPS Worldwide Express Plus <sup>SM</sup>
65	UPS Saver

Code	Shipments Originating in Canada
01	UPS Express
07	UPS Worldwide Express <sup>SM</sup>
80	UPS Worldwide Expedited <sup>SM</sup>
11	UPS Standard
12	UPS Three-Day Select®
	UPS Three-Day Select® UPS Saver SM
14	UPS Express Early A M SM

Code	Shipments Originating in Mexico
07	UPS Express
08	UPS Expedited <sup>SM</sup>
54	UPS Express Plus
65	UPS Saver

Code	Polish Domestic Shipments
07	UPS Express
08	UPS Expedited <sup>SM</sup>
11	UPS Standard
54	UPS Worldwide Express Plus <sup>SM</sup>
	UPS Saver
82	UPS Today Standard <sup>SM</sup>
83	UPS Today Dedicated Courrier <sup>SM</sup>
84	UPS Today Intercity
85	UPS Today Express
86	UPS Today Express Saver

Code	Shipments Originating in the European Union
07	UPS Express
80	UPS Expedited <sup>SM</sup>
	UPS Standard
54	UPS Worldwide Express Plus <sup>SM</sup>
65	UPS Saver

	Code	Shipments Originating in Other Countries			
07 UPS Express					
	80	UPS Worldwide Expedited <sup>SM</sup>			
11 UPS Standard					
	54	UPS Worldwide Express Plus <sup>SM</sup>			
	65	UPS Saver			

# **Appendix D: 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	Reference Number Type
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 Mo	Model Number
PM	Part Number
PC	Production Code
PO	
RQ	Purchase Request Number
RZ	Return Authorization Number
SA	Salesperson Number
SE	Serial Number
ST	Store Number
TN	Transaction Reference Number

# **Appendix E: 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 <a href="http://www.ups.com">http://www.ups.com</a>.

Country	Code	Forward Origin	Return Origin
Afghanistan	AF		
Åland Islands	AX		
Albania	AL		Yes
Algeria	DZ		
American Samoa	AS		
Andorra	AD		Yes
Angola	AO		
Anguilla	ΑI		Yes
Antarctica	AQ		
Antigua and Barbados	AG		Yes
Argentina	AR	Yes	Yes
Armenia	AM		
Aruba	AW		
Australia	AU	Yes	Yes
Austria	AT	Yes	Yes
Azerbaijan	ΑZ		
Bahamas	BS		
Bahrain	BH		
Bangladesh	BD		
Barbados	BB		
Belarus	BY		
Belgium	BE	Yes	Yes
Belize	BZ		
Benin	BJ		
Bermuda	BM		
Bhutan	BT		
Bolivia	ВО		
Bosnia and Herzegovina	BA		
Botswana	BW		
Bouvet Island	BV		
Brazil	BR	Yes	Yes
British Indian Ocean Territory	Ю		
Brunei Darussalam	BN		
Bulgaria	BG		Yes
Burkina Faso	BF		. 30
Burundi	BI		
Cambodia	KH		
Cameroon	CM		
Canada	CA	Yes	Yes

Country	Code	Forward Origin	Return Origin
Cape Verde	CV		
Cayman Islands	KY		
Central African Republic	CF		
Chad	TD		
Chile	CL	Yes	Yes
China	CN	Yes	Yes
Christmas Island	CX		
Cocos (Keeling) Islands	CC		
Colombia	CO		Yes
Comoros	KM		
Congo	CG		
Congo, The Democratic Republic of	CD		
Cook Islands	CK		
Costa Rica	CR	Yes	Yes
Côte D'ivoire	CI		
Croatia	HR		Yes
Cuba	CU		
Cyprus	CY		Yes
Czech Republic	CZ	Yes	Yes
Denmark	DK	Yes	Yes
Djibouti	DJ		
Dominica	DM		
Dominican Republic	DO	Yes	Yes
Ecuador	EC		Yes
Egypt	EG		
El Salvador	SV		Yes
Equatorial Guinea	GQ		
Eritrea	ER		
Estonia	EE		Yes
Ethiopia	ET		
Falkland Islands (Malvinas)	FK		
Faroe Islands	FO		
Fiji	FJ		
Finland	FI	Yes	Yes
France	FR	Yes	Yes
French Guiana	GF		
French Polynesia_	PF		
French Southern Territories	TF		
Gabon	GA		
Gambia	GM		
Georgia	GE		
Germany	DE	Yes	Yes
Ghana	GH		
Gibraltar	GI		
Greece	GR	Yes	Yes
Greenland	GL		
Grenada	GD		Yes
Guadeloupe	GP		
Guam	GU		
Guatemala	GT	Yes	Yes
Guernsey	GG		
Guinea	GN		
Guinea-Bissau	GW		
Guyana	GY		

Country	Code	Forward Origin	Return Origin
Haiti	HT		Yes
Heard Island and Mcdonald Islands	HM		
Holy See (Vatican City State)	VA		
Honduras	HN		Yes
Hong Kong	HK	Yes	Yes
Hungary	HU	Yes	Yes
Iceland	IS		Yes
India	IN	Yes	Yes
Indonesia	ID	Yes	Yes
Iran, Islamic Republic of	IR		
Iraq	IQ		
Ireland	IE	Yes	Yes
Isle of Man	IM	.,	
Israel	IL	Yes	Yes
Italy	IT	Yes	Yes
Jamaica	JM		Yes
Japan	JP	Yes	Yes
Jersey	JE		
Jordan	JO		
Kazakhstan	ΚZ		
Kenya	KE		
Kiribati	KI		
Korea, Democratic People's Republic of	KP	V	V
Korea, Republic of	KR	Yes	Yes
Kuwait	KW		
Kyrgyzstan	KG		
Lao People's Democratic Republic	LA		V
Latvia	LV		Yes
Lebanon	LB LS		Yes
Lesotho	LS		
Liberia	LY		
Libyan Arab Jamahiriya Liechtenstein	LI		Yes
Lithuania	LT		Yes
	LU		Yes
Luxembourg Macao	MO	Yes	Yes
Macedonia, The Former Yugoslav Republic of		162	162
Madagascar	MK MG		
Malawi	MW		
Malaysia	MY	Yes	Yes
Maldives	MV	163	163
Mali	ML		
Malta	MT		Yes
Marshall Islands	MH		103
Martinique	MQ		Yes
Mauritania	MR		100
Mauritius	MU		
Mayotte	YT		
Mexico	MX	Yes	Yes
Micronesia, Federated States of	FM	103	103
			Yes
			103
			Yes
Moldova, Republic of Monaco Mongolia Montenegro	MD MC MN ME		Yes Yes

Country	Code	Forward Origin	Return Origin
Montserrat	MS		Yes
Morocco	MA		
Mozambique	MZ		
Myanmar	MM		
Namibia	NA		
Nauru	NR		
Nepal	NP		
Netherlands	NL	Yes	Yes
Netherlands Antilles	AN		
New Caledonia	NC		
New Zealand	NZ	Yes	Yes
Nicaragua	NI		Yes
Niger	NE		
Nigeria	NG		
Niue	NU		
Norfolk Island	NF		
Northern Mariana Islands	MP		
Norway	NO	Yes	Yes
Oman	OM		
Pakistan	PK		
Palau	PW		Yes
Palestinian Territory, Occupied	PS		
Panama	PA	Yes	Yes
Papua New Guinea	PG		
Paraguay	PY		Yes
Peru	PE		Yes
Philippines	PH	Yes	Yes
Pitcairn	PN		
Poland	PL	Yes	Yes
Portugal	PT	Yes	Yes
Puerto Rico	PR	Yes	Yes
Qatar	QA		
Réunion	RE		
Romania	RO		Yes
Russian Federation	RU		Yes
Rwanda	RW		
Saint Helena	SH		
Saint Kitts and Nevis	KN		Yes
Saint Lucia	LC		Yes
Saint Pierre and Miquelon	PM		
Saint Vincent and The Grenadines	VC		Yes
Samoa	WS		
San Marino	SM		Yes
Sao Tome and Principe	ST		
Saudi Arabia	SA		Yes
Senegal	SN		
Serbia	RS		Yes
Seychelles	SC		
Sierra Leone	SL		
Singapore	SG	Yes	Yes
Slovakia	SK		Yes
Slovenia	SI		Yes
Solomon Islands	SB		
Somalia	SO		

Country	Code	Forward Origin	Return Origin
South Africa	ZA		Yes
South Georgia and The South Sandwich Islands	GS		
Spain	ES	Yes	Yes
Sri Lanka	LK		Yes
Sudan	SD		
Suriname	SR		Yes
Svalbard and Jan Mayen	SJ		
Swaziland	SZ		
Sweden	SE	Yes	Yes
Switzerland	CH	Yes	Yes
Syrian Arab Republic	SY		
Taiwan, Province of China	TW	Yes	Yes
Tajikistan	TJ		
Tanzania, United Republic of	TZ		
Thailand	TH	Yes	Yes
Timor-Leste	TL		
Togo	TG		
Tokelau	TK		
Tonga	TO		
Trinidad and Tobago	TT		
Tunisia	TN		Yes
Turkey	TR	Yes	Yes
Turkmenistan	TM		
Turks and Caicos Islands	TC		Yes
Tuvalu	TV		
Uganda	UG		
Ukraine	UA		Yes
United Arab Emirates	AE		. 55
United Kingdom	GB	Yes	Yes
United States	US	Yes	Yes
United States Minor Outlying Islands	UM	.00	
Uruguay	UY		Yes
Uzbekistan	UZ		
Vanuatu	VU		
Venezuela	VE		Yes
Viet Nam	۷N	Yes	103
Virgin Islands, British	VG	103	
Virgin Islands, U.S.	VI		Yes
Wallis and Futuna	WF		100
Western Sahara	EH		
Yemen	YE		
Zambia	ZM		
Zimbabwe	ZW		
ZIIIIDADWC	<b>∠</b> ۷ ۷		

# **Appendix F: 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 <u>ISO web site</u>. 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 OnLine Tools representative.

Country / Region	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
Dolivia	Mvdol	BOV

Country / Region	Currency	Code
Bosnia & 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
Offile	Unidades de formento	CLF
China	Yuan Renminbi	RMB
Christmas Island	Australian Dollar	AUD
Cocos (Keeling) Islands	Australian Dollar	AUD
Colombia	Colombian Peso	COP
Colombia	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 D'ivoire	CFA Franc BCEAO	XOF
Croatia	Croatian Kuna	HRK
Cuba	Cuban Peso	CUP
Cyprus	Cyprus Pound	CYP
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

Country / Region	Currency	Code
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
Guadeloupe	Euro	EUR
Guam	US Dollar	USD
Guatemala	Quetzal	GTQ
Guinea	Guinea Franc	GNF
Guinea-Bissau	Guinea-Bissau Peso	GWP
Currea Dissau	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

Country / Region	Currency	Code
Jamaica	Jamaican Dollar	JMD
Japan	Yen	JPY
Jordan	Jordanian Dinar	JOD
Kazakhstan	Tenge	KZT
Kenya	Kenyan Shilling	KES
Kiribati	Australian Dollar	AUD
Korea, Democratic People's Republic of	North Korean Won	KPW
Korea, Republic of	Won	KRW
Kuwait	Kuwaiti Dinar	KWD
Kyrgyzstan	Som	KGS
Lao People's Democratic Republic	Kip	LAK
Latvia	Latvian Lats	LVL
Lebanon	Lebanese Pound	LBP
Lesotho	Rand	ZAR
Lesotiio	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	Maltese Lira	MTL
Marshall Islands	US Dollar	USD
Martinique	Euro	EUR
Mauritania	Ouguiya	MRO
Mauritius	Mauritius Rupee	MUR
Mayotte	Euro	EUR
	Mexican Peso	MXN
Mexico	Mexican Unidad de Inversion (UID)	MXV
Micronesia (Federated States of)	US Dollar	USD
Moldova, Republic of	Moldovan Leu	MDL
Monaco	Euro	EUR
Mongolia	Tugrik	MNT

Country / Region	Currency	Code
Montenegro	Euro	EUR
Montserrat	East Caribbean Dollar	XCD
Morocco	Moroccan Dirham	MAD
Mozambique	Metical	MZN
Myanmar	Kyat	MMK
Namibia	Rand	ZAR
Nambia	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
ranama	US Dollar	USD
Papua New Guinea	Kina	PGK
Paraguay	Guarani	PYG
Peru	Nuevo Sol	PEN
Philippines	Philippine Peso	PHP
Pitcairn	New Zealand Dollar	NZD
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	East Caribbean Dollar	XCD

Country / Region	Currency	Code
Grenadines		
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	Slovak Koruna	SKK
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
Svalbard and Jan Mayen	Norwegian Krone	NOK
Swaziland	Lilangeni	SZL
Sweden	Swedish Krona	SEK
	Swiss Franc	CHF
Switzerland	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	Pa'anga	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

Country / Region	Currency	Code
United Kingdom	Pound Sterling	GBP
United States	US Dollar	USD
United States Minor Outlying Islands	US Dollar	USD
	Peso Uruguayo	UYU
Uruguay	Uruguay Peso en Unidades Indexadas	UYI
Uzbekistan	Uzbekistan Sum	UZS
Vanuatu	Vatu	VUV
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 G: 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.

# **Appendix H: 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.

A The good is "wholly obtained or produced entirely" in the territory of one or more 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 also criterion 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 NAFTA countries and satisfies the specific rule of origin, set out in Annex 401, that applies to its tariff classification. The rule may include a tariff classification change, regional value-content requirement, or a combination there-of. The good must also satisfy all other applicable requirements of Chapter Four. If the good 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 NAFTA countries exclusively from originating materials. Under this criterion, one or more of the materials may not fall within the definition of "wholly produced or obtained," as set out in Article 415. All materials used in the production of the good 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 Annex 703.2. Reference: Article 401(c).  D Goods are produced in the territory of one or more of the NAFTA countries but do not meet the applicable rule of origin, set out in Annex 401, because certain non-originating materials do not undergo the required change in tariff classification. The goods do nonetheless meet the regional value-content requirement specified in Article 401 (d). This criterion is limited to the following two circumstances: (1) The good incorporated one or more non-originating materials, provided for as parts under the H.S., which could not undergo a change in tariff classification because the heading provided for both the good and its parts and was not further subdivided into subheadings, or the	Critorio	Mosning
B The good is produced entirely in the territory of one or more of the NAFTA countries and satisfies the specific rule of origin, set out in Annex 401, that applies to its tariff classification. The rule may include a tariff classification change, regional value-content requirement, or a combination there-of. The good must also satisfy all other applicable requirements of Chapter Four. If the good 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 NAFTA countries exclusively from originating materials. Under this criterion, one or more of the materials may not fall within the definition of "wholly produced or obtained," as set out in Article 415. All materials used in the production of the good 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 Annex 703.2. Reference: Article 401(c).  D Goods are produced in the territory of one or more of the NAFTA countries but do not meet the applicable rule of origin, set out in Annex 401, because certain non-originating materials do not undergo the required change in tariff classification. The goods do nonetheless meet the regional value-content requirement specified in Article 401 (d). This criterion is limited to the following two circumstances: (1) The good was imported into the territory of a NAFTA country in an unassembled or disassembled form but was classified as an 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 as parts under the H.S., which could not undergo a change in tariff classification because the heading provided for both the good and its parts and was not further subdivided into subheadings, or the subheading provided for both the good and its parts and was not further subdivided.  Note: This criterion does not apply to Chapters 61 through 63 of the H.	_	The good is "wholly obtained or produced entirely" in the territory of one or more 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 also criterion F and Annex 703.2. (Reference: Article 401(a)
C The good is produced entirely in the territory of one or more of the NAFTA countries exclusively from originating materials. Under this criterion, one or more of the materials may not fall within the definition of "wholly produced or obtained," as set out in Article 415. All materials used in the production of the good 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 Annex 703.2. Reference: Article 401(c).  D Goods are produced in the territory of one or more of the NAFTA countries but do not meet the applicable rule of origin, set out in Annex 401, because certain non-originating materials do not undergo the required change in tariff classification. The goods do nonetheless meet the regional value-content requirement specified in Article 401 (d). This criterion is limited to the following two circumstances: (1) The good was imported into the territory of a NAFTA country in an unassembled or disassembled form but was classified as an 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 as parts under the H.S., which could not undergo a change in tariff classification because the heading provided for both the good 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 Annex 308.1, that do not originate in the territory are considered originating upon importation into the territory of a NAFTA country from the territory of another NAFTA country when the most-favored-nation tariff rate of the good conforms to the rate established in Annex 308.1  The good is an originating agricultural good under preference criterion	В	The good is produced entirely in the territory of one or more of the NAFTA countries and satisfies the specific rule of origin, set out in Annex 401, that applies to its tariff classification. The rule may include a tariff classification change, regional value-content requirement, or a combination there-of. The good must also satisfy all other applicable requirements of Chapter Four. If the good is an agricultural good, see
D Goods are produced in the territory of one or more of the NAFTA countries but do not meet the applicable rule of origin, set out in Annex 401, because certain non-originating materials do not undergo the required change in tariff classification. The goods do nonetheless meet the regional value-content requirement specified in Article 401 (d). This criterion is limited to the following two circumstances: (1) The good was imported into the territory of a NAFTA country in an unassembled or disassembled form but was classified as an 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 as parts under the H.S., which could not undergo a change in tariff classification because the heading provided for both the good and its parts and was not further subdivided into subheadings, or the subheading provided for both the good 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 Annex 308.1, that do not originate in the territory are considered originating upon importation into the territory of a NAFTA country from the territory of another NAFTA country when the most-favored-nation tariff rate of the good conforms to the rate established in Annex 308.1  F The good is an originating agricultural good under preference criterion	С	The good is produced entirely in the territory of one or more of the NAFTA countries exclusively from originating materials. Under this criterion, one or more of the materials may not fall within the definition of "wholly produced or obtained," as set out in Article 415. All materials used in the production of the good 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 Annex 703.2. Reference:
H.S. (Reference: Article 401(d))  E Certain automatic data processing goods and their parts, specified in Annex 308.1, that do not originate in the territory are considered originating upon importation into the territory of a NAFTA country from the territory of another NAFTA country when the most-favored-nation tariff rate of the good conforms to 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	D	Goods are produced in the territory of one or more of the NAFTA countries but do not meet the applicable rule of origin, set out in Annex 401, because certain non-originating materials do not undergo the required change in tariff classification. The goods do nonetheless meet the regional value-content requirement specified in Article 401 (d). This criterion is limited to the following two circumstances: (1) The good was imported into the territory of a NAFTA country in an unassembled or disassembled form but was classified as an 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 as parts under the H.S., which could not undergo a change in tariff classification because the heading provided for both the good and its parts and was not further subdivided into subheadings, or the subheading provided for both the good and its parts and was not further subdivided.
Annex 308.1, that do not originate in the territory are considered originating upon importation into the territory of a NAFTA country from the territory of another NAFTA country when the most-favored-nation tariff rate of the good conforms to 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	F	H.S. (Reference: Article 401(d))
F The good is an originating agricultural good under preference criterion	_	Annex 308.1, that do not originate in the territory are considered originating upon importation into the territory of a NAFTA country from the territory of another NAFTA country when the most-favored-nation tariff rate of the good conforms to the rate established in Annex 308.1
A, B, or C above and is not subject to a quantitative restriction in the	F	

# Criteria Meaning importing NAFTA country because it is a "qualifying good" as defined in Annex 703.2, Section A or B (please specify). A good listed in Appendix 703.2B.7 is also exempt from quantitative restrictions and is eligible for NAFTA preferential tariff treatment if 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 or the United States and are imported into either country. Note: A tariff rate quota is not a quantitative restriction.

# Appendix I: Countries that Accept Paperless Invoices

The following table lists those countries that support paperless (electronic submission) invoices.

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

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Base6421	P
Branding12	Paperless Invoice
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