International Knowledge Base

Customer Integration Supplement

January 13, 2022

Important Information

UPS Developer Kit APIs

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

Defined terms used but not defined in this document have the meaning set forth in the UPS Technology Agreement.

Key Legal Requirements for UPS Developer APIs

Permitted Territories

This document can only be used in the countries or territories of the Permitted Territory as defined in the UPS Technology Agreement, as applicable.

Use

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

Consent to Use of UPS Mark

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

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

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

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

Copyright and Proprietary Notice

In your application and any POD Letters you prepare, you must include a prominent reproduction of UPS's copyright and proprietary notices in a form and format specified by UPS (See the 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 Developer Kit APIs. Your application must present all data within each field received through the UPS Developer Kit APIs without amendment, deletion, or modification of any type.

Notice

In all communications with UPS concerning this document, please refer to the document date located on the cover.

Copyright

Trademarks

Some of the UPS corporate applications use United States city, state, and postal code information obtained by United Parcel Service of America, Inc. under a non-exclusive license from the United States Postal Service.

Table of Contents

Introduction

This guide is a supplement for International Knowledge Base. It will tell you when to use the functionality and why it's important to you and your customers.

Using the new cross border shipping capabilities in the Ship API will streamline the information that customs requires to clear a shipment for delivery in another country. It should be used by customers that need to:
- Screen for denied party recipients
- Improve transparency to estimated landed costs (leveraging the UPS HTS prediction service)
    - UPS will correct commodity information if needed, known as the Feedback Loop, after customs clearance

Note: A new feature is to display brokerage fees. No other integrated carrier displays brokerage fees at the time of shipping. These fees are at the published rate. Users can choose to insert a process to display the incented brokerage rates. They can also choose not to display any brokerage fees or other charges. The brokerage rates that will provided by UPS at the time of shipping are:
- *Disbursement Fee*
- *Entry Preparation Fee*
- *Multi Line Fee*

IMPORTANT:

- If this is your first time working with the UPS Developer Kit, begin with the *Introduction to the UPS Developer Kit* guide. This guide serves as the foundation for all API-specific developer guides.

- For additional API, XPath, and Error Code information, refer to the *Web Service Developer Guides* and the *XML Developer Guides.*

- A ups.com ID and an access key are required to complete the implementation process.

Required Knowledge & Skills

This guide assumes you have a basic understanding of the following:

- Concepts and instructions in the *Introduction to the UPS Developer Kit* guide.

- XML syntax and structure

- Web services

- Software development

Release Features

November 2021

Improvements to International Shipping

* Estimate Duties, Taxes, VAT & Brokerage Fees

* Save Parts functionality

* Denied Party Screening

Business Processes and Rules

Using the new cross border shipping capabilities in the Ship API will streamline the information that customs requires to clear a shipment for delivery in another country. It should be used by customers that need to:

- Improve transparency to underlined estimated duties, taxes, VAT and brokerage fees (leveraging the UPS HTS prediction service)
  - UPS will correct commodity information if needed, known as the Feedback Loop, after customs clearance
- Screen for denied party recipients
- Save parts to UPS Product Catalog

Estimated Duties, Taxes, VAT and Brokerage Fees

Using this feature, the duties, taxes, VAT and brokerage fees can be estimated.

If a harmonized tariff code (HTS) is available, it can be included in the ship request. If an HTS code is not available (8, 10 or 12 digits), UPS can attempt to predict it. To predict the HTS, four pieces of data are needed.

- Description of goods

- Unit of measure

- Unit value

- Country of origin

If Ship API users choose to have the recipient pay the duties taxes and fees, they will be able to send notifications to recipients. This will help set expectations and avoid surprises at or prior to delivery.

Currently, results must be available for all commodities to render a response. Future enhancements include the ability to render partial estimates will be available at the commodity level.

Note: All returned duties, taxes, VAT and brokerage fees are estimates. When displaying, the results should clearly be indicated as estimates.

ShipConfirm request

To receive the estimated costs, this indicator must be included in the ShipConfirm request.

   LandedCostIndicator

These elements must be included to predict the harmonized tariff codes for the products in the shipment:

Description
UnitOfMeasurement/Code
UnitOfMeasurement/Description
Value
OriginCountryCode

ShipConfirm response

The ShipConfirm response will include the following, as is applicable –

At the commodity level:
  EstimatedDutiesAndTaxes
  CurrencyCode
  MonetaryValue
  BrokerageFees
  ChargeName
  ChargeAmount
  PackageResults
  CommodityDutyCharges
  CommodityDuty
  TotalCommodityTaxAndFee
  CommodityVAT

At the shipment level:
  TotalBrokerageFees
  TotalDuties
  TotalCommodityLevelTaxesAndFees
  TotalShipmentLevelTaxesAndFees
  TotalVAT
  GrandTotal

Landed Cost in Customer Integration Environment (CIE)

Customers can test their implementation of LandedCostIndicator functionality in the UPS CIE test region. When the LandedCostIndicator is submitted with a Ship API request to CIE, the response will include EstimatedDutiesAndTaxes of 10.00. Itemized duties and tax charges are not supported in CIE. See Ship API Developers Guide for more information about the CIE test region.

Save Parts

The Global Parts Catalog on ups.com will keep the saved part information and can be viewed and retrieved using a ups.com ID.

After the package has cleared customs in the destination country, UPS will correct the parts information in the Global Parts Catalog if needed. This update occurs after customs clearance is in the destination country, which could be a few days after shipping. The next time a package with the same commodity is shipped, UPS will use the updated part information to provide to customs in the destination country. This should enable both shippers and receivers to have more accurate cost estimates. Note that the corrected parts information will not be displayed but will be passed between back-end systems.

ShipConfirm request

To save parts to the user's UPS profile, this indicator must be included in the ShipConfirm request, and the request must also include a Primary Part Number.

SavePartsIndicator
PrimaryPartNumberType

ShipConfirm response

The ShipConfirm response may include the following warnings. No warning in the ShipConfirm response indicates the parts were saved.

- 120449   Save Parts feature currently not available.
- 120450   Not all parts could be saved If the product data does not include a PartNumber, AmazonStandardIdentificationNumber and UPC or EAN.

Save Parts in Customer Integration Environment (CIE)
There is no support for Save Parts functionality in the UPS CIE test region. See Ship API Developers Guide for more information about the CIE test region.

Denied Party Screening

UPS cannot deliver to embargoed or sanctioned countries or individuals who are on a denied party list. UPS checks denied party databases to help avoid shipments to denied parties. The denied party check should be initiated via a Ship Confirm call.

If the customer is NOT on a denied party listing, it will be imperceptible to users. If the recipient is on a denied party listing or if the package is going to an embargoed country, a warning will be returned in Ship Confirm response. The Ship To information should be updated to avoid the shipment being delayed or returned.

Note: UPS assumes no liability for the information provided by the address validation functionality. The address validation functionality does not support the identification or verification of occupants at an address.

ShipConfirm request

To screen for denied individuals and/or countries, this indicator must be included in the ShipConfirm request:

  DeniedPartyScreeningIndicator

ShipConfirm response

The ShipConfirm response may include the following warnings:

- 120448   ShipTo Address and CompanyName are in Denied Party List.
- 120447   Denied Party feature currently not available.

Denied Party Screening in Customer Integration Environment (CIE)
Customers can test their implementation of DeniedPartyScreeningIndicator functionality in the UPS CIE test region. When the DeniedPartyScreeningIndicator is submitted with the address shown below in Ship To and Sold To sections, in a Ship API request to CIE, the response will be that the recipient is on a denied party list. See Ship API Developers Guide for more information about the CIE test region.

Address for Denied Party Screening testing in CIE
Street=1234 Haifa Street
City=Baghdad
CountryCode=IQ
CompanyName=Rasheed Bank

Other Errors

- 120452   DeniedParty/SaveParts/LandedCost functionality is only available for international or transborder forward shipments.
- 120454   DeniedParty/SaveParts/LandedCost is currently not available.
- 120455   DeniedParty/SaveParts/LandedCost is only available in the first stage of the two-stage shipping process.

In Transit & Clearing Customs

Once a package is shipped and on its way, updates and exceptions can be viewed on ups.com with the shipment status. Customers may also contact UPS for updates or questions and the chat feature can be used to speak to a dedicated cross-border agent.

UPS may contact customers to obtain additional information to clear customs. In some cases, additional fees may be required to be paid by the shipper or recipient prior to being able to deliver the package. This is determined at customs clearance. Ensure that current phone numbers and email addresses are included when shipping to prevent delays.

New Containers/Elements

Estimate Landed Cost

Name	Constraint	Description	Validation
/ShipConfirmRequestt/Shipment/ShipmentServiceOptions/InternationalForms/LandedCostIndicator			
LandedCostIndicator	Required: No Type: String Max Allowed: 1 Length: 0	This is an empty tag. Presence of the indicator for EEI form means shipment contains landed cost.	
Description -	Required: Yes Type: String Max Allowed: 3 per Product Length: 1 to 35	Description of the product. Note - Existing element that should be included with LandedCostIndicator to predict Harmonized Tariff Code. XPATH - /ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Description	
Code	Required: Yes Type: String Max Allowed: 1 per Product Length: 1 to 3	Code for the Unit of measurement of the commodity units. Note - Existing element that should be included with LandedCostIndicator to predict Harmonized Tariff Code. XPATH - /ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/UnitOfMeasurement/Code	Applies to Invoice and partial invoice forms and is required. Refer to Product Unit of Measure Codes in the Appendix for valid values.
Description	Required: Conditional Type: String Max Allowed: 1 per Product Length: 1 to 3	The Unit of Measure if OTH (Other) is entered as the UnitOfMeasurement code. Note - Existing element that should be included with LandedCostIndicator to predict Harmonized Tariff Code. XPATH - /ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/UnitOfMeasurement/Description	Applies to Invoice and Partial Invoice forms. Conditionally Required for the Invoice and Partial Invoice form if OTH is entered as the units UnitOfMeasurement code.

/ShipConfirmRequestt/Shipment/ShipmentServiceOptions/InternationalForms/LandedCostIndicator			
Value	Required: Yes Type: String Max Allowed: 1 per Product Length: 1 to 19	Monetary amount used to specify the worth or price of the commodity. Amount should be greater than zero. Note - Existing element that should be included with LandedCostIndicator to predict Harmonized Tariff Code. XPATH - /ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/Unit/Value	Applies to Invoice and Partial Invoice form. Required for Invoice forms and Partial Invoice forms. Amount should be greater than zero. Valid characters are 0-9 and. (Decimal point). Limit to 6 digits after the decimal. The maximum length of the field is 19 including. and can hold up to 6 decimal places. (#####.######, ######.#####, #######.####, ########.###, #########.##,############.#,############) The value of this product and the other products should be such that the invoice line total which is the sum of (number*values) of all products should not exceed 9999999999999999.99

/ShipConfirmRequestt/Shipment/ShipmentServiceOptions/InternationalForms/LandedCostIndicator			
OriginCountryCode	Required: Conditional Type: String Max Allowed: 1 per Product Length: 2	The country or territory in which the good was manufactured, produced or grown. For detailed information on country or territory of origin, certificate of origin, rules of origin and any related matters, please refer to the U.S. Customs and Border Protection Web site at www.customs.gov or contact your country's or territory's Customs authority. Note - Existing element that should be included with LandedCostIndicator to predict Harmonized Tariff Code. XPATH - /ShipmentConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/Product/OriginCountryCode	Applies to Invoice, Partial Invoice, CO and NAFTA CO. Required for Invoice and CO forms. Optional for Partial Invoice. Conditionally required for NAFTA CO if JointProductionIndicator is not present. Do not put in developers guide: For NAFTA CO, identify the name of the country or territory (MX or US for agricultural and textile goods exported to Canada; US or CA for all goods exported to Mexico; or CA or MX for all goods exported to the United States) to which the preferential rate of customs duty applies, as set out in Annex 302.2, in accordance with the Marking Rules or in each party's schedule of tariff elimination. For all other originating goods exported to Canada, indicate appropriately MX or US if the goods originate in that NAFTA country or territory, within the meaning of the NAFTA Rules of Origin Regulations, and any subsequent processing in the other NAFTA country or territory does not increase the transaction value of the goods by more than seven percent; otherwise use the JointProductionIndicator for joint production.

Denied Party Screening

Name	Constraint	Description	Validation
/ShipConfirmRequest/Shipment/DeniedPartyScreeningIndicator			
DeniedPartyScreeningIndicator	Required: No Type: String Max Allowed: 1 Length: N/A	DeniedPartyScreeningIndicator. Presence of the indicator means Denied Party Screening for ship to is requested. Warning will be return if Ship to address and name is in denied party list. This is an empty tag, any value inside is ignored.	DeniedPartyScreeningIndicator is applicable only for forward cross border shipment. DeniedPartyScreeningIndicator is not supported for below shipment 1. Mail Innovation 2. Return 3. Domestic

Save Parts

Name	Constraint	Description	Validation
/ShipConfirmRequest/Shipment/ShipmentServiceOptions/InternationalForms/SavePartsIndicator			
SavePartsIndicator	Required: No Type: String Max Allowed: 1 Length: 0	This is an empty tag. Product parts will be saved if indicator present. Note: Products/Parts will not be saved If PartNumber, AmazonStandardIdentificationNumber and UPCorEAN missing.	SavePartsIndicator is applicable only for forward cross border shipment. SavePartsIndicator is not supported for below shipment 1. Mail Innovation 2. Return 3. Domestic

Example – ShipConfirm Request with all IKB elements

```xml
<?xml version="1.0"?>
<AccessRequest xml:lang="en-US">
        <AccessLicenseNumber></AccessLicenseNumber>
        <UserId></UserId>
        <Password></Password>
</AccessRequest>
<?xml version="1.0"?>
<ShipmentConfirmRequest xml:lang="en-US">
        <Request>
                <RequestAction>ShipConfirm</RequestAction>
                <RequestOption>validate</RequestOption>
                <TransactionReference>
                        <CustomerContext>US to DE shipment with Denied Party Screening,
Landed Cost indicator, and Save Parts indicator.</CustomerContext>
                        <XpciVersion/>
                </TransactionReference>
        </Request>
        <Shipment>
                <Description>String</Description>
                <Shipper>
                        <Name>Shipper Name</Name>
                        <AttentionName>Shipper Attn Name</AttentionName>
                        <ShipperNumber>******</ShipperNumber>
                        <TaxIdentificationNumber>*********</TaxIdentificationNumber>
                        <PhoneNumber>8005551212</PhoneNumber>
                        <FaxNumber>8005554545</FaxNumber>
                        <Address>
                                <AddressLine1>1 Main Street</AddressLine1>
                                <City>Timonium</City>
                                <StateProvinceCode>MD</StateProvinceCode>
                                <PostalCode>21093</PostalCode>
                                <CountryCode>US</CountryCode>
                        </Address>
                </Shipper>
                <ShipTo>
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                        <AttentionName>ShipTo Attn</AttentionName>
                        <PhoneNumber>97225377171</PhoneNumber>
                        <Address>
                                <AddressLine1>2021 Atwater Street, Suite 216</AddressLine1>
                                <City>MONTREAL</City>
                                <StateProvinceCode>QC</StateProvinceCode>
                                <PostalCode>H3H2P2</PostalCode>
                                <CountryCode>CA</CountryCode>
                        </Address>
                </ShipTo>
                <ShipFrom>
```

```xml
<CompanyName>ShipFrom Name</CompanyName>
<AttentionName>ShipFrom Attn</AttentionName>
<TaxIdentificationNumber>*********</TaxIdentificationNumber>
<PhoneNumber>8005557878</PhoneNumber>
<FaxNumber>8005558989</FaxNumber>
<Address>
        <AddressLine1>2311 York Rd</AddressLine1>
        <City>Timonium</City>
        <StateProvinceCode>MD</StateProvinceCode>
        <PostalCode>21093</PostalCode>
        <CountryCode>US</CountryCode>
</Address>
</ShipFrom>
<SoldTo>
        <Option>01</Option>
        <CompanyName>ACME Designs</CompanyName>
        <AttentionName>Wile E Coyote</AttentionName>
        <TaxIdentificationNumber>*********</TaxIdentificationNumber>
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                <City>Roswell</City>
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#1</CompanyName>

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                                <Address>
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```xml
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Road</AddressLine1>
                                                <City>Atlanta</City>
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                                                <CountryCode>US</CountryCode>
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                                </ForwardAgent>
                                <UltimateConsignee>
                                        <CompanyName>Ultimate
Company</CompanyName>
                                        <Address>
                                                <AddressLine1>1022 Roswell
road</AddressLine1>
                                                <City>Atlanta</City>
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St.</AddressLine1>
                                                <City>WashingtonDC</City>
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St</AddressLine1>
                                                <City>Marietta</City>
        <StateProvinceCode>GA</StateProvinceCode>
                                                <PostalCode>30066</PostalCode>
                                                <CountryCode>US</CountryCode>
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                                        <AttentionName>Mark Smith</AttentionName>
                                        <Phone>
                                                <Number>8005556565</Number>
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```xml
                    <Extension>1234</Extension>
                </Phone>

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                    </Producer>
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                                                <ProductAmount>147</ProductAmount>
                                        </PackageAssociated>
                                </PackingListInfo>
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                                                <Code>C30</Code>

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616</ACMNumber>
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    <EndDate>20121015</EndDate>
</NetCostDateRange>
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<ProducerInfo>No[1]</ProducerInfo>
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<NumberOfPackagesPerCommodity>22</NumberOfPackagesPerCommodity>
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        <Description>LBS</Description>
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        <Description>Hello</Description>
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6162</ACMNumber>
                    </DDTCInformation>
                </EEIInformation>
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            <Product>
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                <Unit>
                    <Number>147</Number>
                    <Value>478</Value>
                    <UnitOfMeasurement>
                        <Code>BOX</Code>
                        <Description>ZZZ</Description>
                    </UnitOfMeasurement>
                </Unit>
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                <MarksAndNumbers>Stratches</MarksAndNumbers>

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                <ProductWeight>
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                        <Description>LBS</Description>
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```xml
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<ScheduleB>
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        <Quantity>8</Quantity>
        <UnitOfMeasurement>
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                <Description>Hello</Description>
        </UnitOfMeasurement>
</ScheduleB>
<ExportType>D</ExportType>
<SEDTotalValue>123.45</SEDTotalValue>
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                <ProductAmount>147</ProductAmount>
        </PackageAssociated>
</PackingListInfo>
<EEIInformation>
        <ExportInformation>IW</ExportInformation>
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                </UnitOfMeasurement>
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6162</ACMNumber>
                </DDTCInformation>
        </EEIInformation>
</Product>
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<InvoiceDate>20210926</InvoiceDate>
<PurchaseOrderNumber>999jjj777</PurchaseOrderNumber>
<TermsOfShipment>CFR</TermsOfShipment>
<ReasonForExport>Sale</ReasonForExport>
<Comments>Enter in any extra information about the current
shipment.</Comments>
```

```xml
            <DeclarationStatement>I hereby certify that the goods covered
by this shipment qualify as originating goods for purposes of preferential tariff treatment under
the NAFTA.I hereby certify that the information on this invoice is true and correct and the
contents and value of this shipment is as stated above. EEA statement: The exporter of the
products covered by this document declares that except where otherwise clearly indicated
these products are of EEA preferential origin.</DeclarationStatement>
                <Discount>
                    <MonetaryValue>100</MonetaryValue>
                </Discount>
                <FreightCharges>
                    <MonetaryValue>75</MonetaryValue>
                </FreightCharges>
                <InsuranceCharges>
                    <MonetaryValue>600</MonetaryValue>
                </InsuranceCharges>
                <OtherCharges>
                    <MonetaryValue>789</MonetaryValue>
                    <Description>Read</Description>
                </OtherCharges>
                <CurrencyCode>USD</CurrencyCode>
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                    <BeginDate>20050115</BeginDate>
                    <EndDate>20050816</EndDate>
                </BlanketPeriod>
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                <ExportingCarrier>UPS</ExportingCarrier>
                <CarrierID>UPSN</CarrierID>
                <InBondCode>70</InBondCode>
                <EntryNumber>1A34567876545360</EntryNumber>
                <PointOfOrigin>TX</PointOfOrigin>
                <ModeOfTransport>Rail</ModeOfTransport>
                <PortOfExport>New York</PortOfExport>
                <PortOfUnloading>Germany</PortOfUnloading>
                <LoadingPier>Pier 17 Dock 31</LoadingPier>
                <PartiesToTransaction>N</PartiesToTransaction>
                <ContainerizedIndicator>String</ContainerizedIndicator>
                <License>
                    <Number>123abc456edf</Number>
                    <Date>20121004</Date>
                </License>
                <ECCNNumber>CIV</ECCNNumber>
                <ShipperMemo>Memo field for the Shipper</ShipperMemo>
                <LandedCostIndicator/>
                <SavePartsIndicator/>
        </InternationalForms>
    </ShipmentServiceOptions>
    <Package>
        <Description/>
        <PackagingType>
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            <Description>Nails</Description>
        </PackagingType>
```

```xml
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                                            <Description>Inches</Description>
                                     </UnitOfMeasurement>
                                     <Length>7</Length>
                                     <Width>5</Width>
                                     <Height>2</Height>
                              </Dimensions>
                              <PackageWeight>
                                     <UnitOfMeasurement>
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                                            <Description>Pounds</Description>
                                     </UnitOfMeasurement>
                                     <Weight>50</Weight>
                              </PackageWeight>
                       </Package>
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                              <CurrencyCode>USD</CurrencyCode>
                              <MonetaryValue>100</MonetaryValue>
                       </InvoiceLineTotal>
                       <DeniedPartyScreeningIndicator/>
              </Shipment>
              <LabelSpecification>
                       <LabelPrintMethod>
                              <Code>GIF</Code>
                              <Description>GIF</Description>
                       </LabelPrintMethod>
                       <HTTPUserAgent>Mozilla/4.5</HTTPUserAgent>
                       <LabelImageFormat>
                              <Code>GIF</Code>
                              <Description>GIF</Description>
                       </LabelImageFormat>
              </LabelSpecification>
</ShipmentConfirmRequest>
```

IKB Supplement FAQ

Category	Question	Answer
Estimated Duties, Taxes, VAT and Brokerage Fees	Why do I want to predict a harmonized code?	Providing the additional elements which allows UPS to predict the product's harmonized code will improve the data for future shipments.
Save Parts	Do I need to re-submit parts I have previously saved on future requests?	Yes, saved parts will need to be submitted again on future requests if they are part of the shipment.
Denied Party Screening	Will my shipment still be processed if it is going to a denied party or country?	Yes, the shipment will still be processed. It is up to the shipper to check warnings in ShipConfirm response and take appropriate actions.