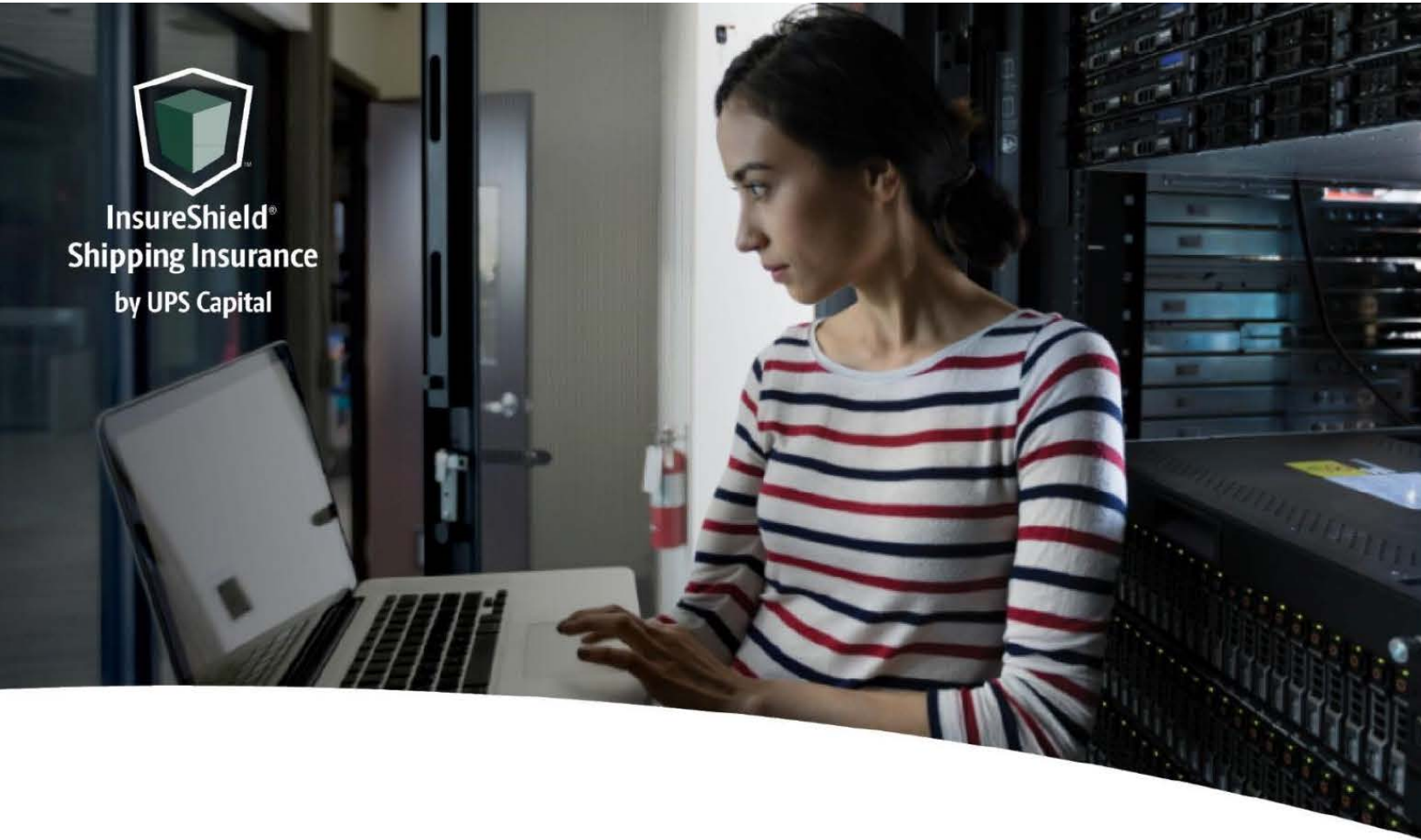




InsureShield®
Shipping Insurance
by UPS Capital



Technical Implementation Reference Guide

V3 API

Two-call API

Does not require shipment-level detail for quote

US Version

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Overview

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1.1. APIs

The acronym "API" stands for "Application Programming Interface".

APIs in their simplest form allow the transmission of data. APIs are an industry standard interface designed for external/internal software programs to accomplish specific tasks, usually for retrieving or modifying data in applications. In more advanced approaches, APIs are deployed to deliver streaming video, audio, and telephony services via smartphones, televisions, or internet-enabled kiosks.

The most popular approach to APIs is the open-data movement. Using APIs, data owners can easily expose information from data silos, allowing public or private access to large and small datasets.

UPS Capital APIs provide methods to interact/perform operations on their client transactional data within the UPS Capital network.

Programmers use the APIs to make interactive applications, websites and other projects. These programs will talk to the UPS Capital IT systems over industry standard network protocols. APIs are built using existing web technology, specifically the HTTP/HTTPS protocol that the World Wide Web employs to deliver content around the globe.

We conform to the design principles of Representational State Transfer (REST). Typically, we use a RESTful design for our APIs. The concept of REST is to separate the API structure into logical resources.

We use the HTTP methods GET, DELETE, POST and PUT to operate with the resources.

- Methods to retrieve data from the API require a GET request.
- Methods that create data require a POST request.
- Methods that update data require a PUT request.
- Methods that delete data require a DELETE request.

The API presently supports the JSON format only.

APIs require a particular HTTP method to return an error response if the request is not made with the correct payload (aka input).

1.2. Getting Started

The first step is to ensure all the contractual agreements between UPS Capital (UPSC) and the new Channel Partner (CP) are completed. Once the agreements are finalized, the UPSC IT API integration team will setup a sandbox environment for the new Channel Partner with sample rates to enable the API interactions. The CP IT team will reach out to the UPSC API

team for user credentials and other information for enabling secure REST API- based interactions with UPS Capital IT systems.

1.3. Security / Authentication

UPS Capital APIs use secure OAUTH tokens for service authentication. During the customer onboarding process, the customer procures credentials for accessing the Token API. Any calls to the REST API endpoints (excluding Token API) should be made with bearer tokens in the request headers. The token can be retrieved from the Token API specified below. The token will be usable for 4 hours. It is refreshed after 4 hours and it is required to be updated to a new token once refreshed..

TOKEN API

Endpoint: <https://onlinetoolsuat.ups.com/ent-services/security/v1/oauth/token>

Request Parameters

No request body

Request Headers

Username

Password

Token API (Response)

```
{
  "token_type": "Bearer",
  "issued_at": "1747851532915",
  "client_id": "",
  "access_token": "",
  "expires_in": "14399",
  "status": "approved"
}
```

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<code>Token_type</code>	String Indicates token type
<code>Issued_at</code>	String Indicates the time token was requested in Epoch format.
<code>Client_id</code>	String Indicates a unique identifier of customer (same as username).
<code>Access_token</code>	String Indicates token to be used for calling other APIs
<code>Expires_in</code>	String Indicates the time token will expire in Epoch format.
<code>Status_</code>	String Indicates if token retrieval is approved.

Insurance Service - APIs

2. Insurance Service - URLs UPS

Capital Insurance Coverage API

The API's purpose is to allow customers to get quotes and purchase insurance coverage for safe and timely package/cargo delivery.

2.1. Create Quote

Customer's request for a new insurance quote by providing the necessary shipment information.

Post

<https://onlinetoolsuat.ups.com/ent-services/capon-insurance/v3/quotes>

This method creates a quote in the system for insurance coverage.

Request

Request Parameters

body * (required)

Quote object needs to be sent to the API as a request payload...

Request Headers

Content Type : application/json

Authorization: Bearer: < secure token >

Model :

Coverage

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<code>partnerId</code>	String Required Indicates Partner Id, assigned by UPS Capital to the Channel Partner ex: XXX001
<code>ShipperId</code>	String Indicates customer shipper identifier. Value should be unique for each shipper account
<code>insuredvalue</code>	number (\$double) Required Indicates insured value of shipment
<code>commodityCode</code>	String Required Indicates numeric commodity code of item in the shipment
<code>shipmentType</code>	Int Required Indicates the type of shipment the quote is for 1- FTL/FCL 2- LTL/LCL 3- Small Package 4- Ground Freight Pricing 5- Ocean 6- Air 7- Mail or Parcel Post
<code>destinationcountrycode</code>	String Required Indicates the package destination country code
<code>origincountrycode</code>	String Required Indicates the package origin country code

Example:

```
{
  "partnerId": "XXX001",
  "insuredValue": "500",
  "shipperId": "W230499252",
  "shipmentType": "1",
  "commodityCode": "400",
  "originCountry": "US",
  "destinationCountry": "FR"
}
```

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Response

Response Headers	
content type : application/json	
Code	Description
200	Successful Operation QuoteReturn{ quoteId string(\$UUID) Indicates the uniquely generated QuoteId by UPS Capital for the customer requested shipment information premiumAmount number(\$double) Indicates the insurance premium value for the Shipment Value & commodity in the quote request quoteDateTime string(\$datetime) Indicates the date & time of the QuoteId generation by UPS Capital quoteValidTo string(\$datetime) Indicates the date & time the QuoteId is Valid for customer to purchase shipment coverage quoteInfo QuoteInfo{ partnerID string status string ShipmentInfo: { insuredValue number(\$double) commodityCode string shipmentType int

	<pre> } originAddress: { countryCode string } destinationAddress:{ countryCode string } } } } } } } } } </pre>
400	Invalid payload format ApiResponseFault <pre> { "errors": [{ "errorCode": "400", "errorMessage": "" }] } </pre>
401	Authentication Error ApiResponseFault <pre> "response": { </pre>

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	<pre> "errors": [{ "code": "250002", "message": "Invalid Authentication Information." }] </pre>
404	Resource not found ApiResponseFault{ code integer(\$int32)
	<pre> message String description String errors [errors{ code string field string message string }] } </pre>
Example:	

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200 - Successful Operation

```
{
  "quoteId": "5c8bcsdgf-91cc-4cc9-bd20-d885b6c175e0",
  "premiumAmount": "270.40",
  "quoteDateTime": "2017-09-11T09:54:29.521",
  "quoteValidTo": "2017-10-11T09:54:29.521",    "quoteInfo": {
    "partnerId": "XXX001",
    "status": "UNCONFIRMED",
    "shipmentInfo": {
      "insuredValue": "130120.00
      "commodityCode": "400",                "shipmentType" :
"1"

    }
    "originAddress": {
      "countryCode": "US"

    },
    "destinationAddress": {
      "countryCode": "US"
    }
  } }
```

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400 – Invalid Payload format

```
{  
  "errors": [  
    {  
      "errorCode": "400",  
      "errorMessage": ""  
    }  
  ]  
}
```

401 – Authentication Error

```
"response": {  
  "errors": [  
    {  
      "code": "250002",  
      "message": "Invalid Authentication Information."  
    }  
  ]  
}
```

2.2. Coverage

Customer's purchase of a previously requested insurance quote by providing the necessary shipment and quote information.

Post

<https://onlinetoolsuat.ups.com/ent-services/capon-insurance/v3/confirmQuote>

This method places an order for purchasing a previously requested insurance quote.

Request

Request Parameters

body * (required)

Quote object needs to be sent to the API as a request payload...

Request Headers

Content Type : application/json

Authorization: Bearer: < secure token >

Model :

Coverage

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{	QuoteId	String (\$UUID) Required Indicates the UPSC QuoteId(from Quote Response) by UPS Capita corresponding customer requested quote.
	Status	String Required Indicates status of the Package that is being insured by the Channel Partner
	productid	String Required Same as in the original quote request
	locationID	String Required Same as in the original quote request
	transactionID	String Required Indicates a unique identifier of the customer transaction from the Channel Partner IT System

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partnerId	String Required	Same as in the original quote request
upscCustomerID	String Required	Same as in the original quote request
policyRateType	String Required	Indicates policy according to indicate for commodity
quoteShipmentInfo		
shipperId	String Required	Indicates Customer shipper identifier. Value should be unique for each shipper account.
shipperName	String	Indicates Customer shipper name
shipDate	String(\$date) Required	Indicates package shipment date. Fmt: YYYY-MM-DD Eg: "2017-10-20"
bol	String Required	Indicates Bill of Lading number for the shipment
InsuredValue	number(\$double) Required	Indicates Insured Value of the shipment
commodityCodeType	String	Indicates type of the Commodity Code that is being shipped ex: UPSC
commodityCode	String Required	Indicates numeric commodity code of item in the shipment

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carrier	String Indicates transportation carrier.
Oversize	Boolean Required Indicates if the shipment package is over normal size limits. Y or N
usedGoods	Boolean Required Indicates if the shipment content is new or used goods N or U
modeOfTransport	String Required Indicates the Mode of Transportation 1- Air 2- Ground 3- Ocean
consigneeName	String Indicates the Name of Consignee
description	String Indicates detailed information of the shipment goods
shipmentType	Int Required Indicates the type of shipment the quote is for 1- FTL/FCL 2- LTL/LCL 3- Small Package 4- Ground Freight Pricing 5- Ocean 6- Air 7- Mail or Parcel Post

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destinationAddress	Indicates the package destination address/ location to where the insured package is shipped	
address1	String	Required
address2	String	
city	String	Required
state	String	
postalCode	String	Required
countryCode	String	Required
originAddress	Indicates the package origin address/ a location to where the insured package is shipped	
address1	String	Required
address2	String	
city	String	Required
state	String	
postalCode	String	
countryCode	String	Required
payablesAttentionTo	String	Required
	Indicates the shipper payable information, usually used for claims payment	
payablesAddress		
address1	String	Required
address2	String	
city	String	Required
state	String	Required
postalCode	String	Required
countryCode	String	Required
	Indicates the shipper payables address information, usually used for claims payment	
shipperPrincipal	String	Required
	Indicates Shipper's Name that will be used or Office of Foreign Assets Control (OFAC) screening	

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shipperAddress		
address1	String	Required
address2	String	
city	String	Required
state	String	Required
postalCode	String	Required
countryCode	String	Required
Indicates the shipper address/location used for OFAC screening		
referenceFields	String	
Merchants use for description or data to appear on CSV invoice.		

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ShipmentStatus

Enum:

[UNCONFIRMED, CONFIRMED, VOID]

For Confirm Shipment request, "CONFIRMED" & "VOID" are the only value allowed.

- **UNCONFIRMED** status can change to **CONFIRMED** or **VOID**.
- **CONFIRMED** status can change to **VOID** if within 180 minutes of status being **CONFIRMED**.

VOID status cannot be changed. To purchase valid coverage, one need to start over by submitting a new create quote request again.

Example:

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```
{
  "quoteId": "3446c4c812d3482885d10b183bc1b96d",
  "status": "CONFIRMED",
  "productId": "1",
  "locationId": "111156106",
  "transactionID": "9810002",
  "partnerId": "XXX001",
  "upscCustomerID": "XXX",
  "quoteShipmentInfo": {
    "shipperId": "W230499252",
    "shipperName": "VIACHEMO",
    "shipDate": "2023-08-17",
    "bol": "866030730023",
    "insuredValue": "2700.00",
    "commodityCodeType": "UPSC",
    "commodityCode": "400",
    "usedGoods": "N",
    "modeOfTransport": "2",
    "consigneeName": "Dan",
    "insuranceAuthorization": "",
    "description": "Big pallet of goods",
    "shipmentType": "1",
    "carrier": "UPS",
    "oversize": "N"
  },
  "destinationAddress": {
    "address1": "30520 SE 84th St.",
    "address2": ".",
    "city": "Wombat",
    "state": "WA",
    "postalCode": "98010",
    "countryCode": "FR"
  },
  "originAddress": {
    "address1": "5003 Lionsgate Rd",
    "address2": ".",
    "city": "Preston",
    "state": "GA",
    "postalCode": "30290",
    "countryCode": "US"
  },
  "payablesAttentionTo": "Carter",
  "payablesAddress": {
    "address1": "100 N Central Expressway",
    "address2": "Ste 720",
    "city": "Atlanta",
    "postalCode": "10101",
    "countryCode": "US",
    "state": "GA"
  },
  "shipperPrincipal": "VIACHEMO",
  "shipperAddress": {
    "address1": "5003 Right Rd",
    "address2": ".",

```

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```

    "city": "Athens",
    "postalCode": "11133",
    "countryCode": "US",
    "state": "GA"
  }
}

```

Response

Response	
Content Type : application/json	
Code	Description
200	Successful Operation <pre> { "quoteId": "d84116da312648889949ceef1d139169", "payablesAttentionTo": "Andy Dulin", "premiumAmount": "8.00", "quoteInfo": { "17roductid": "1", "locationId": "1111561065", "transactionID": "9810", "partnerId": "TESTCP002", "shipperPrincipal": "VIACHEMO", "status": "UNCONFIRMED", "upscCustomerId": "TES", "shipmentInfo": { "shipperId": "W230499252", "shipperName": "VIACHEMO", </pre>

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```

        "carrier": "RLCA",
        "shipDate": "2022-08-24",
"bol": "86603073",
        "insuredValue": "600.00",
        "commodityCodeType": "UPSC",
        "commodityCode": "400",
        "oversize": "N",
        "usedGoods": "N",
        "modeOfTransport": "2",
        "consigneeName": "Test 002",
        "shipmentType": "1",
        "description": "Big pallet of stuff"
    },
    "originAddress": {
        "address1": "5003 Wrightsboro Rd",
        "address2": ".",
        "city": "Preston",
        "state": "GA",
        "postalCode": "30290",
        "countryCode": "US"
    },
    "destinationAddress": {
        "address1": "30520 SE 84th St.",
        "address2": ".",
        "city": "Wombat",
        "state": "WA",
        "postalCode": "98010",
        "countryCode": "US"
    },
    "payablesAddress": {
        "address1": "100 N Central Expressway",
        "address2": "Ste 720",
        "city": "Atlanta",
        "state": "GA",
        "postalCode": "10101",
        "countryCode": "us"
    },
    "shipperAddress": {
"address1": "5003 Wrightsboro Rd",
        "address2": ".",
        "city": "Taylor",
        "state": "GA",
        "postalCode": "11133",
        "countryCode": "us"
    }
}

```

400	Invalid payload format ApiResponseFault <pre> { "errors": [{ "errorCode": "400", "errorMessage": "" }] }</pre>
404	Resource not found ApiResponseFault <pre> { code integer(\$int32) message string description string errors [errors{ code string field string message string }] }</pre>

Error Messages

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3.1 Error Messages Matrix

API	Scenario	Error Code	Error Messages
Token API	Invalid credentials for Token API	10401	Client credentials are invalid
All APIs (excluding token API)	Token has timed out	250002	Invalid Authentication Information
Create Quote	Invalid Partner ID	401	Token does not match assigned PartnerID. Please verify with IT resource.
Create Quote	Shipper ID is missing or invalid	400	Shipper ID is missing or invalid. Please enter alphanumeric characters only, no special characters. <i>ShipperID indicates customer shipper identifier. Value should be unique for each shipper account.</i>
Create Quote	Insured Value is missing or Invalid	400	Insured Value is invalid. Please provide a numeric value with two decimal places. ex: 100.00
Create Quote	Commodity Code is missing or Invalid	400	Commodity Code is missing or invalid. <i>CommodityCode indicates numeric commodity code of item in the shipment.</i>
Create Quote	Origin Country Error	400	Please enter a valid origin Country, only alphabetical characters allowed
Create Quote	Destination Country Error	400	Please enter a valid destination Country, only alphabetical characters allowed
Coverage	Ship Date field is missing or invalid	400	Ship Date is invalid. Please enter date in YYYY-MM-DD format. Ex: 2022-07-06
Coverage	Commodity Code is missing or invalid	400	Commodity Code is missing or invalid. <i>CommodityCode indicates numeric commodity code of item in the shipment.</i>
Coverage	Over Size field is missing or invalid	400	Oversized indicator is missing or in the incorrect format. Please provide "Y" or "N" response. <i>Oversize field indicates if the shipment package is over normal size limits.</i>

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Coverage	Product ID field is missing	400	Product ID is missing. This field only accepts numeric characters. <i>ProductID indicates product ID value assigned by UPS Capital, by default "1" for Channel Partners.</i>
Coverage	Product ID is invalid	400	Invalid Product ID. This field only accepts numeric characters. <i>ProductID indicates product ID value assigned by UPS Capital, by default "1" for Channel Partners.</i>

Coverage	Location ID field is missing or invalid	400	Location ID field is missing or NULL. <i>LocationID indicated the ID Channel Partner assigns to their customer</i>
Coverage	Shipper Principle is missing or invalid	400	Shipper Principle is missing or invalid, Please enter alphanumeric characters; only the following special characters are allowed: - + & () / , ~ ` # . : ; " * ' <i>ShipperPrinciple indicates Shipper's Name that will be used for Office of Foreign Assets Controle (OFAC) screening.</i>
Coverage	Payable Attention to is missing or invalid	400	Payable Attention to is missing or invalid. Please enter alphanumeric characters; only the following special characters are allowed: - + & () / , ~ ` # . : ; " * ' <i>PayableAttentionTo indicates the shipper payable information, usually used for claims payment.</i>
Coverage	Partner ID field is missing or invalid	401	Partner ID field is invalid
Coverage	UPSC Customer ID is invalid or NULL	400	UPSC Customer ID is missing or invalid, Please enter alphanumeric characters only, remove all special characters. <i>UPSCCustomerID indicates franchise identifier assigned by UPS Capital ex: XXX</i>



Coverage	BOL is invalid	400	BOL is invalid. Please enter alphanumeric characters only. <i>BOL indicates the Bill of Lading for shipments</i>
Coverage	BOL is missing	400	BOL is missing
Coverage	Insured Value is missing or Invalid	400	Insured Value is invalid. Please provide a numeric value with two decimal places. ex: 100.00
Coverage	Used field is missing or invalid	400	Used Goods field missing or invalid. Please enter "N" (New) or "U" (Used) <i>UsedGoods indicates if the shipment content is new or used goods.</i>
Coverage	Destination Address1 error	400	Please enter a valid destination address. Please enter alphanumeric characters; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " ' ‘ ’
Coverage	Destination Address2 error	400	Please enter a valid destination address. Please enter alphanumeric characters; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " ' ‘ ’
Coverage	Destination city error	400	Please enter a valid destination City, only alphabetical characters allowed

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Coverage	Destination State error	400	Please enter a valid destination US State Code for US, CA or PR country Code
Coverage	Destination Postal Code Error	400	Please enter a valid destination Postal Code, only alphanumeric characters allowed
Coverage	Destination Country	400	Please enter a valid destination Country, only alphanumeric characters allowed
Coverage	Origin Address1 error	400	Please enter a valid origin address. Please enter alphanumeric characters; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
Coverage	Origin Address2 error	400	Please enter a valid origin address. Please enter alphanumeric characters; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
Coverage	Origin city error	400	Please enter a valid origin City, only alphabetical characters allowed
Coverage	Origin State error	400	Please enter a valid origin US State Code for US, CA or PR country Code
Coverage	Origin Postal Code Error	400	Please enter a valid origin Postal Code, only alphanumeric characters allowed
Coverage	Origin Country	400	Please enter a valid origin Country, only alphanumeric characters allowed
Coverage	Payables Attention To Address1 error	400	Please enter a valid Payable Address 1
Coverage	Payables Attention To Address2 error	400	Please enter a valid Payable Address 3
Coverage	Payables Attention To city error	400	Please enter a valid Payables City
Coverage	Payables Attention To State error	400	Please enter a valid State Code for Payables State
Coverage	Payables Attention To Code Error	400	Please enter a valid Payables Country Code
Coverage	Payables Attention To Country	400	Please enter a valid Payable Postal Code

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Coverage	Shipper Principle Address1 error	400	Shipper Address 1 is missing or invalid. Please enter Alphanumeric characters; only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
Coverage	Shipper Principle Address2 error	400	Shipper Address 2 is missing or invalid. Please enter Alphanumeric characters; only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
Coverage	Shipper Principle city error	400	Please enter a valid Shipper City
Coverage	Shipper Principle State error	400	Shipper State is missing or invalid. Please enter a valid US State Code for US, CA, or PR Country Code
Coverage	Shipper Principle Postal Code Error	400	Please enter a valid Shipper Posta Code
Coverage	Shipper Principle Country	400	Please enter a valid Shipper Country Code



Field Name	Validations
All Address Fields - Name	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; “ * ‘
All Address Fields - City	Alphabetical
All Address Fields- Address 1,2	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; “ * ‘
All Address Fields - State	Valid US State Code for US, CA, or PR Country Code
All Address Fields - Country	Alphabetical
ProductId	Numeric
Location	Alphanumeric
Shipper Principle	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; “ * ‘
Payables Attention To	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; “ * ‘
PartnerId	Alphanumeric
UpscCustomerID	Alphanumeric
TransactionId	Numeric
Status	Confirmed/Unconfirmed/Void
ShipperId	Alphanumeric
ShipperName	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; “ * ‘
Carrier	Alphanumeric
ShipDate	Date/Validation
Bol	Numeric
InsuredValue	Decimal
CommodityCodeType	Alphanumeric

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CommodityCode	Numeric
Oversize/usedGoods	Y/N
ModeOfTransport	Numeric
ConsigneeName	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
TrackingNumber	Numeric
Description	None
TransactionType	Numeric
ShipmentType	Numeric
Contact First Name	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
Contact Last Name	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
Secondary Contact Name	Alphanumeric; Only the following special characters are allowed: - + & () / , ~ ` # . : ; " * '
referenceFields	Alphanumeric