



InsureShield®
Shipping Insurance
by UPS Capital

Technical Implementation Reference Guide

V2 CP

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.

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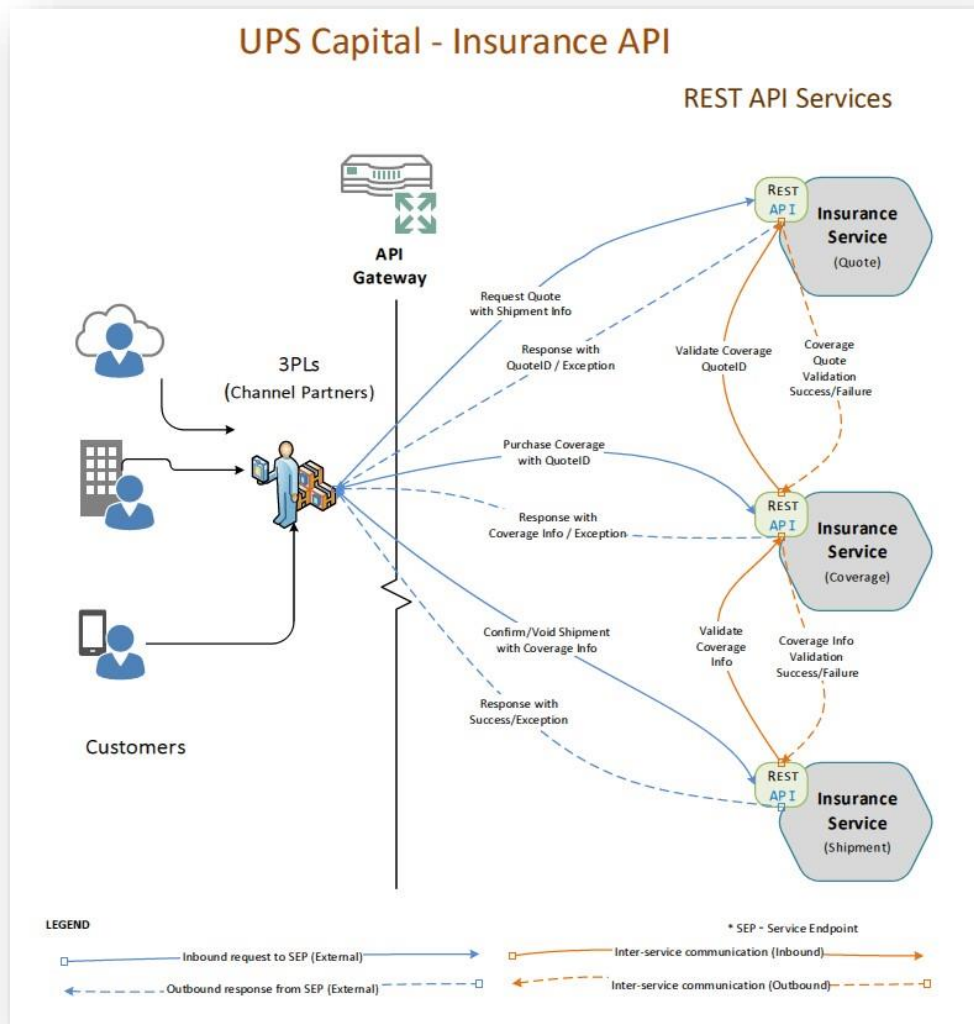
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1.3. Security / Authentication

UPS Capital APIs use secure JWT tokens for service authentication. Any calls to the REST API endpoint should be made bearer tokens in the request headers in addition to using the secured JWT tokens provided by the UPS Capital API Integration team.

During the customer onboarding process, the customer procures a unique Secure Token with certain customer credentials generated by the API Integration team for enabling communication between provider (UPS Capital) and consumer (Customer).

1.4. Insurance Service Workflow Overview



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://upscapi-rzd.ams1907.com/apis/list-extstg/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

Bearer : < secure token issued by API integration team >

X-IBM-Client-Id : <provided by API integration team>

X-IBM-Client-Secret : <provided by API integration team>

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Model :

Create Quote

```
{
```

partnerId	String Required	Indicates Partner Id, assigned by UPS Capital to the Channel Partner ex: XXX001
shipperId	String	Indicates customer shipper identifier. Value should be unique for each shipper account
insuredValue	number(\$double) Required	Indicates Insured Value of the shipment
commodityCode	String Required	Indicates numeric commodity code of item in the shipment
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
destinationcountryCode	String Required	Indicates the package destination country code
origincountryCode	String Required	Indicates the package origin country code

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Example:

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

Response

Response Headers	
content type : application/json	
Code	Description
200	Successful Operation QuoteReturn { quoteId <code>string(\$UUID)</code> Indicates the uniquely generated QuoteId by UPS Capital for the customer requested shipment information

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	<p>premiumAmount number(\$double) Indicates the insurance premium value for the Shipment Value & commodity in the quote request</p> <p>quoteDateTime string(\$datetime)</p>
	<p>quoteValidTo string(\$datetime) Indicates the date & time of the QuoteId generation by UPS Capital</p> <p>quoteInfo QuoteInfo{ partnerID string status string ShipmentInfo: { insuredValue number(\$double) commodityCode string shipmentType int } originAddress: { countryCode string } destinationAddress:{ countryCode string } } </p>

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400	<p>Invalid payload format</p> <pre>ApiResponseFault{ code integer(\$int32) message string description string errors [errors{ code String field string message string }] }</pre> <p>Indicates the internal indiv</p>
401	<p>Invalid payload data</p> <pre>ApiResponseFault{ code integer(\$int32) message String description String errors [errors{ code string field string message string }] }</pre>
404	<p>Resource not found</p> <pre>ApiResponseFault{ code integer(\$int32)</pre>

<pre>message String description String errors [errors{ code string</pre>

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	field	string
	message	string
	}}	
}		

Example:

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": "Error.Product.Id.Invalid.or.Null"
    }
  ]
}
```

401 - Invalid Payload data

```
{
  "errors": [
    {
      "errorCode": "401",
      "errorMessage": "The Token issued is not valid."
    }
  ]
}
```

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2.2. Coverage

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

Post <https://upscapi-rzd.ams1907.com/apis/list-extstg/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

Bearer : < secure token issued by API integration team >

X-IBM-Client-Id : <provided by API integration team>

X-IBM-Client-Secret : <provided by API integration team>

Model :

Coverage

{	
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 rate for commodity
quoteShipmentInfo	<div> <div>shipperId</div> <div>String Required Indicates Customer shipper identifier. Value should be unique for each shipper account.</div> </div> <div> <div>shipperName</div> <div>String Indicates Customer shipper name</div> </div> <div> <div>shipDate</div> <div>String(\$date) Required Indicates package shipment date. Fmt: YYYY-MM-DD Eg: "2017-10-20"</div> </div> <div> <div>bol</div> <div>String Required Indicates Bill of Lading number for the shipment</div> </div> <div> <div>insuredValue</div> <div>number(\$double) Required Indicates Insured Value of the shipment</div> </div> <div> <div>commodityCodeType</div> <div>String Indicates type of the Commodity Code that is being shipped ex: UPSC</div> </div> <div> <div>commodityCode</div> <div>String Required Indicates numeric commodity code of item in the shipment</div> </div> <div> <div>carrier</div> <div>String Indicates transportation carrier.</div> </div> <div> <div>Oversize</div> <div>Boolean Required Indicates if the shipment package is over normal size limits. Y or N</div> </div> <div> <div>usedGoods</div> <div>Boolean Required Indicates if the shipment content is new or</div> </div>

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	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	
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/location to where the insured package is shipped
address1	String	Required
address2	String	
city	String	Required
state	String	
postalCode	String	

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	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 for Office of Foreign Assets Control (OFAC) screening			
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:

```
{
  "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"
  }
},
```

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```

"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": ".",
  "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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	<pre> "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" } } </pre>
400	<p>Invalid payload format</p> <p>ApiResponseFault{ code integer(\$int32)</p>

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	<pre> message string description string errors [errors{ code string field string message string }] </pre>
404	<p>Resource not found</p> <pre> ApiResponseFault{ 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
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>
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.

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			ProductID indicates product ID value assigned by UPS Capital, by default "1" for Channel Partners.
Coverage	Location ID field is missing or invalid	400	Location ID field is missing or NULL. LocationID indicated the ID Channel Partner assigns to their customer
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: - + & () / , ~ ` # . : ; " * ' ShipperPrinciple indicates Shipper's Name that will be used for Office of Foreign Assets Control (OFAC) screening.
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: - + & () / , ~ ` # . : ; " * ' PayableAttentionTo indicates the shipper payable information, usually used for claims payment.
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. UPSCCustomerID indicates franchise identifier assigned by UPS Capital ex: XXX
Coverage	Transaction ID is Invalid or Null	400	Transaction ID is missing or invalid. Please enter alphanumeric value not exceeding 31 characters. Transaction ID indicates a unique identifier of the customer transaction from the Channel Partner IT System
Coverage	Status is Invalid or Null	400	Status must be set to UNCONFIRMED
Coverage	Shipper Name is missing or Invalid	400	Shipper Name is invalid. Please enter alphanumeric characters; only the following special characters are allowed: - + & () / , ~ ` # . : ; " * ' ShipperName indicates customer shipper name.
Coverage	Carrier is Invalid	400	Carrier field is invalid. Please enter alphanumeric characters only.

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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
CommodityCode	Numeric
Oversize/usedGoods	Y/N
ModeOfTransport	Numeric

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