



InsureShield®
Shipping Insurance
by UPS Capital

Technical Implementation Reference Guide

V1 Direct

Two-call API

Requires shipment-level detail for quote

US Version

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Overview

What is an API?

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 telephone 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).

Getting Started

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

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). The customer will also receive an IBM Client ID and IBM Client Secret from the UPS Capital API Integration team. These security features are placed in the header of each API call, along with the customer's bearer token.

Multi-Piece Shipments (If Applicable)

Package level detail is preferred for each transaction. This means that each box's aligned tracking number and individual insured value is sent via the API. In the event you are unable to send package level detail, we ask that you send us the lead or parent tracking number for the group of packages, as well as the total insurable value for all packages included in the shipment.

- Example Scenario #1 (Preferred)
 - o 3 packages being sent to the same recipient on the same day
 - o Total insured value for shipment: \$700
 - o What is sent via API:
 - BOL/ Tracking # 123XYZ; Package 1 value - \$150
 - BOL/ Tracking # 456XYZ; Package 2 value - \$350
 - BOL/ Tracking # 789XYZ; Package 3 value - \$200

- Example Scenario #2 (Alternative)
 - o 3 packages being sent to the same recipient on the same day
 - o Total insured value for shipment: \$700
 - o What is sent via API:
 - Lead or Parent BOL/ Tracking # 123XYZ; Package 1 value - \$700

In the event of a claim for a multi-piece shipment, the shipper must file against the lead or parent tracking number passed to us via API. A manifestation of all tracking numbers included within the shipment, paired with invoices for all packages within the shipment must be provided via the Document section of our online claims process.



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Insurance Service – APIs

Insurance Service - URLs

UPS Capital Insurance Coverage API

The API's purpose is to allow SMB and Enterprise customers to receive quotes and confirm insurance coverage for safe and timely package/cargo delivery.

Create Quote API

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

Post

<https://upscapi.ams1907.com/apis/list-extstg/quote/v2>

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>*

Model :

Quote

```

{
  status           String
                   Indicates status of the package that is being insured
                   by the customer.
  partnerId        String
                   Required
                   Indicates assigned Partner Id of customer.
  shipDate         String($date)
                   Required
                   Indicates package shipment date.
                   Fmt: YYYY-MM-DD
                   Eg: "2017-10-20"
  bol              String
                   Required
                   Indicates Bill of Lading number or tracking number for
                   the shipment. Accepts alphanumeric values
  insuredValue     Number($double)
                   Required

```

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carrier	Indicates Insured Value of the shipment. String Required
shipmentType	Indicates transportation carrier. Accepts alphanumeric values String Required Indicates Mode of Transportation. 1 - Truck or Train 3 - Small Package 5 - Ocean Freight 6 - Air Freight 7 - Mail or Parcel Post
commodity	String Indicates numeric commodity code of item in the shipment.
originAddress1	String Required Indicates the first line of the address/location from where the insured package is shipped.
originAddress2	String Indicates the second line of the address/location from where the insured package is shipped.
originCity	String Required Indicates the city from where the insured package is shipped.
originState	String Required Indicates the state from where the insured package is shipped.
originPostalCode	String Required Indicates the origin postal code. Accepts alphanumeric values.
originCountry	String Required Indicates the country from where the insured package is shipped.
consigneeName	String Indicates the name of the consignee.
destinationAddress1	String Required Indicates the first line of the address/location to where the insured package is shipped.
destinationAddress2	String Indicates the second line of the address/location to where the insured package is shipped.
destinationCity	String Required Indicates the city to where the insured package is shipped.
destinationState	String

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	Required	Indicates the state to where the insured package is shipped.
<code>destinationPostalCode</code>	String	
	Required	Indicates the destination postal code. Accepts alphanumeric values.
<code>destinationCountry</code>	String	
	Required	Indicates the country to where the insured package is shipped.
<code>serviceLevel</code>	String	
		Indicates the service level for small packages.
<code>packageQuantity</code>	Int	
		Indicates the number of packages being insured for small packages (1-9).
<code>referenceFields</code>	String	
		Description field if needed.
}		

Example:

```
{
  "status": "UNCONFIRMED",
  "partnerId": "1017668999",
  "shipDate": "2023-08-31",
  "bol": "1Z5RX2510333768492",
  "insuredValue": "200",
  "carrier": "UPS",
  "shipmentType": "3",
  "commodity": "400",
  "originAddress1": "2600 NW LOWER RIVER ROAD",
  "originAddress2": null,
  "originCity": "VANCOUVER",
  "originState": "WA",
  "originPostalCode": "98660",
  "originCountry": "US",
  "consigneeName": "Dan Burrow",
  "destinationAddress1": "STATE ROUTE 101A",
  "destinationAddress2": null,
  "destinationCity": "AMHERST",
  "destinationState": "NH",
  "destinationPostalCode": "03031",
  "destinationCountry": "US",
  "serviceLevel": null,
  "packageQuantity": null,
  "referenceFields": "abcd"
}
```

Response

Response Headers	
content type : <i>application/json</i>	
Code	Description
200	<p>Successful Operation</p> <pre>QuoteReturn{ quoteId string(\$UUID) Indicates the uniquely generated QuoteId by UPS Capital for the customer requested shipment information (Quote ID is valid for 30 days) status string Indicates the status of the insurance coverage selected by the customer for the shipment premiumAmount number(\$double) Indicates the insurance premium value for the Shipment Value & carrier in the quote request bol string Indicates the Bill of Lading for the shipment as input by the customer quoteValidTo string(\$datetime) Indicates the date & time the QuoteId is Valid for customer to purchase shipment coverage }</pre>
400	<p>Invalid payload format</p> <pre>ApiResponseFault{ code integer(\$int32) message string description string errors [errors{ code String Indicates the internal error code of individual field string message string }] }</pre>

401	<p><i>Invalid payload data</i></p> <pre>ApiResponseFault{ code integer(\$int32) message String description String errors [errors{ code string field string message string }] }</pre>
404	<p><i>Resource not found</i></p> <pre>ApiResponseFault{ code integer(\$int32) message String description String errors [errors{ code string field string message string }] }</pre>
500	<p><i>Internal Server Error</i></p> <pre>ApiResponseFault{ code integer(\$int32) message String description String errors [errors{ code string field string message string }] }</pre>

Example:

```
200 – Successful Operation
{
  "quoteId": "0da2fdcd5582455793a01889a269e014",
  "premiumAmount": "22.00",
  "quoteDateTime": "2020-06-15T13:53:24.767",
  "quoteValidTo": "2020-07-15T13:53:24.767",
  "quoteInfo": {
    "partnerId": "111156234510",
    "status": "UNCONFIRMED",
```

```

"shipmentInfo": {
  "carrier": "RLCA",
  "shipDate": "2020-06-25",
  "bol": "86603021",
  "insuredValue": "130120.00",
  "commodityCode": "400",
  "consigneeName": "Joe Burrow",
  "shipmentType": "1"
},
"originAddress": {
  "address1": "3053520 SE 843rd St.",
  "address2": ".",
  "city": "Wombat",
  "state": "WA",
  "postalCode": "98010",
  "countryCode": "US"
},
"destinationAddress": {
  "address1": "5034503 Leftsboro Rd ",
  "address2": ".",
  "city": "Preston",
  "state": "GA",
  "postalCode": "30290",
  "countryCode": "US"
}
},
"serviceLevel": "",
"packageQuantity": "1",
"referenceFields": ""
}

400 – Invalid Payload format

{
  "errors": [
    {
      "errorCode": "400",
      "errorMessage": "Error.bol.Invalid.or.Null"
    }
  ]
}

401 – Invalid Payload data

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

```

```
}  
  
404 – Resource Not Found  
  
{  
  "errors": [  
    {  
      "errorCode": "404",  
      "errorMessage": "The resource was not found."  
    }  
  ]  
}  
  
500 – Internal Server Error  
  
{  
  "errors": [  
    {  
      "errorCode": "500",  
      "errorMessage": "Internal Server Error."  
    }  
  ]  
}
```

Confirm Coverage API

Customer's request for confirming shipment for which insurance coverage was previously quoted by providing the necessary coverage information.

Post

<https://upscapi.ams1907.com/apis/list-extstg/coverage/v2>

This method places the insured shipment picked up by the carrier in a confirmed status and eligible for future claim requests.

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 >*

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

Model :

Confirm Coverage

```
{
  quoteId      String
               Required
  partnerId    String
               Required
  bol          String
               Required
  status       String
               Required
}
```

Indicates current status of the Package that is being insured by the customer.

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": "1e9c036e423b4b59adec5e87464ed251",
  "partnerId": "1017668999",
  "bol": "478752615478997919926",
  "status": "Confirmed"
}
```

Response

Response content type :
application/json

Code	Description
200	Successful Operation

	<p>ConfirmReturn{</p> <p>quoteId <code>string(\$UUID)</code></p> <p>Indicates the uniquely generated QuoteId by UPS Capital for the customer requested shipment information</p> <p>premiumAmount <code>number(\$double)</code></p> <p>Indicates the insurance premium value for the Shipment Value & carrier in the quote request</p> <p>status <code>string</code></p> <p>Indicates the status of the insurance coverage selected by the customer for the shipment</p>
400	<p><i>Invalid payload format</i></p> <p>ApiResponseFault{</p> <p>code <code>integer(\$int32)</code></p> <p>message <code>string</code></p> <p>description <code>string</code></p> <p>errors <code>[errors{</code></p> <p><code>code</code> <code>string</code></p> <p><code>field</code> <code>string</code></p> <p><code>message</code> <code>string</code></p> <p><code>}]</code></p> <p>}</p>
401	<p><i>Invalid payload data</i></p> <p>ApiResponseFault{</p> <p>code <code>integer(\$int32)</code></p> <p>message <code>string</code></p> <p>description <code>string</code></p> <p>errors <code>[errors{</code></p> <p><code>code</code> <code>string</code></p> <p><code>field</code> <code>string</code></p> <p><code>message</code> <code>string</code></p> <p><code>}]</code></p> <p>}</p>
404	<p><i>Resource not found</i></p> <p>ApiResponseFault{</p>

	<pre> code integer(\$int32) message String description String errors [errors{ code string field string message string }] </pre>
500	<p><i>Internal Server Error</i></p> <p>ApiResponseFault{</p> <pre> code integer(\$int32) message String description String errors [errors{ code string field string message string }] </pre>

Example:

200 - Successful Operation

```

{
  "quoteId": "0da2fdcd5582455793a01889a269e014",
  "premiumAmount": "22.00",
  "status": "CONFIRMED"
}

```

400 - Invalid Payload format

```

{
  "errors": [
    {
      "errorCode": "400",
      "errorMessage": "Error bol.Invalid.or.Null"
    }
  ]
}

```

401 - Invalid Payload data

```

{
  "errors": [
    {

```



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

404 - Resource Not Found

```
{  
  "errors": [  
    {  
      "errorCode": "404",  
      "errorMessage": "The resource was not found."  
    }  
  ]  
}
```

500 - Internal Server Error

```
{  
  "errors": [  
    {  
      "errorCode": "500",  
      "errorMessage": "Internal Server Error."  
    }  
  ]  
}
```

Error Messages

Error Messages Matrix

API	Scenario	Error Code	Error Messages
Create Quote	status is invalid	400	Status must be set to CONFIRMED/UNCONFIRMED
Create Quote	partnerId field is invalid	400	The Token issued does not match Partner Id
Create Quote	shipDate field is missing	400	shipDate missing
Create Quote	shipDate field is invalid	400	shipDate is null or invalid format
Create Quote	shipDate field less than current date or greater than 30 days from current date	400	Shipdate must be within policy date limits, not a previously passed dated, and no greater than 30 days from current date
Create Quote	bol is invalid	400	bol is invalid, alphanumeric values only
Create Quote	insuredValue is missing	400	insuredValue null
Create Quote	insuredValue is invalid	400	Insured Value is invalid or null, please provide decimal value
Create Quote	carrier is invalid	400	carrier is invalid, alphanumeric values only
Create Quote	shipmentType is invalid	400	Shipment type not included in policy, invalid shipment type
Create Quote	commodity is invalid	400	Commodity code is null or invalid
Create Quote	originState Error	400	Please enter a valid US State Code for origin State
Create Quote	originAddress1 Error	400	Please enter a valid origin Address1
Crete Quote	originAddress2 Error	400	Please enter a valid origin Address2
Create Quote	originCity Error	400	Please enter a valid origin City
Create Quote	originPostalCode Error	400	Please enter a valid Origin Postal Code
Create Quote	originCountry Error	400	Please enter a valid originCountry
Create Quote	destinationAddress1 Error	400	Please enter a valid destination Address1
Create Quote	destinationAddress2 Error	400	Please enter a valid destination Address2
Create Quote	destinationCity Error	400	Please enter a valid destination city
Create Quote	destinationState Error	400	Please enter a valid US State Code for destination State
Create Quote	destinationPostalCode Error	400	Please enter a valid US State Code for destination State
Create Quote	destinationCountry Error	400	Please enter a valid destinationCountry
Confirm Quote	status is invalid	400	Status must be set to CONFIRMED/VOID
Confirm Quote	status is called "confirmed" after being called "void"	400	Confirm is not allowed on void quote



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Support Tables

4.1 Carrier List

Carrier Name	SCAC
A. Duie Pyle, Inc	PYLE
AAA Cooper Transportation	AACT
ABF Freight System Inc/ArcBest	ABFS
AIT Worldwide	AIWL
APC Postal Logistics	
ARAMEX	AMIT
ASAP FREIGHT SERVICES	ASAJ
Arrow Express	ARWP
Averitt Express, Inc.	AVRT
CCT CANADA	CGVO
CEVA LOGISTICS	CUOT
CROWLEY LOGISTICS	CWYG
Central Freight Lines, Inc.	CENF
Central Transport	CTII
Con-Way Freight	CNWY
DAYLIGHT TRANSPORT	DYLT
Dayton Freight Lines, Inc.	DAFG
DHL	
DICOM EXPRESS	DEIR
DLS WORLDWIDE	DLSW
EASTERN CONNECTION Operating Inc	
Estes Express Lines	EXLA
EXPEDITORS	EXPD
Estes Forwarding Worldwide, LLC	EFWW
Forward Air, Inc.	FWDN
Ground Freight Expeditors, LLC	GFXP
FRONTLINE FREIGHT	FCSY
Forward Air, Inc.	FWDN
FedEx	FEDG
FedEx Freight	FEXF
Fedex Smart Post	FDEG
GlobalTranz Enterprises, Inc.	GELJ
GLOVA-LINK Corporation	GLDI
GLS DENMARK	
HERCULES Freight	HRCF

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USF Holland	HMES
JAS Forwarding	JASF
JP EXPRESS	
KUEHNE & NAGEL TRANSWORLD SHIPPING	
MIDWEST MOTOR EXPRESS	MMEI
Manna	MFSY
New Penn Motor Express	NPME
New England Motor Freight	NEMF
ONTRAC	OTCL
Old Dominion Freight Line, Inc.	ODFL
Pilot Air Freight LLC	PAAF
PILOT FREIGHT SERVICES	
Pitt Ohio Express, LLC	PITD
Plycon Van Lines, Inc	PLCN
PUROLATOR FREIGHT	
Panama Transfer, Inc.	PANA
R+L Carriers	GMLS
RADIANT GLOBAL LOGISTICS	RGLN
USF Reddaway	RETL
Roadrunner Freight	RDFS
Saia Motor Freight Line, LLC	SAIA
SMSA Express Transportation Company Ltd	
SOUTHWESTERN MOTOR TRANSPORT	SMTL
Spee-Dee Delivery	SDED
STD LOGISTICS LTD	
STI Transport, Inc	SQRC
STREAM LINK EXPRESS, INC.	SLXB
Streamline Transportation Systems, LLC	STYL
Southeastern Freight Lines, Inc.	SEFL
TNT	
UPS Ground	UPSC
UPS Ground Freight	UPGF
UPS Mail Innovation	UMID
UPS Supply Chain Solutions - Express Critical	UPSE
UPS SUREPOST	UPSP
USF Holland	HMES
USF Reddaway	RETL
USPS	USPS



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Ward Trucking, LLC	WARD
Watkins & Shepard Trucking, Inc.	WSVT
XPO Logistics Freight, Inc.	CNWY
XPO Logistics Freight, Inc.	CNWY
XPRESS GLOBAL	
YRC Freight	RDWY
You Shop We Ship Denmark ApS	