



InsureShield®
Shipping Insurance
by UPS Capital

Technical Implementation Reference Guide

V1 API

Three-call API

Requires shipment-level detail for quote

US Version

Table of Contents

1. Overview	
1.1. APIs	2
1.2. Getting Started	2
1.3. Security / Authentication	3
2. Insurance API	
2.0. Insurance Service URLs	6
2.1. Create Quote	6
2.2. Purchase Coverage	21
2.3. Confirm Shipment	26
3. Error Messages	
3.1. Error Messages Matrix	35
3.2. Field Validations	36



INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

Overview

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

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"
}
```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

<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

UPSCapital 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. This API also helps to confirm or void insurance transactions for the respective shipment.

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/v1/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 :
Quote

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

{		
productId	String Required	Indicates Product Id value assigned by UPS Capital, by default 1 for Channel Partners
locationId	String Required	Indicates the Id Channel Partner assigns to their customer
transactionID	String Required	Indicates a unique identifier of the customer transaction from the Channel Partner IT System
partnerId	String Required	Indicates Partner Id, assigned by UPS Capital to the Channel Partner ex: XXX001
upscCustomerId	String Required	Indicates Franchise Identifier assigned by UPS Capital ex: XXX
quoteShipmentInfo	ShipmentInfo{	
	shipperId	String Required Indicates Customer shipper identifier. Value should be unique for each shipper account.
	shipperName	String Indicates Customer shipper name.
	Carrier	String Indicates transportation carrier.
	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

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

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
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

}

destinationAddress **address**{ address1 String **Required**

 address1 String

 address2 String

 city String

 state String

 postalCode String

 countryCode String

}

Indicates the package destination address/location to where the insured package is shipped

originAddress **address**{

 address1 String

 address2 String

 city String

 state String

 postalCode String

 countryCode String

payablesAttentionTo String

Required

Indicates the shipper payable information, usually used for claims payment

payablesAddress **address**{

 address1 String

 address2 String

 city String

 state String

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```
postalCode String
countryCode String }
```

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

address{

address1 String **Required**

address2 String

city String **Required**

state String

postalCode String

countryCode String **Required**

}

Indicates the shipper address/location used for OFAC screening

status

String

Indicates status of the Package that is being insured by the Channel Partner

ShipmentStatus Enum:

[UNCONFIRMED, CONFIRMED, VOID]

For Create Quote request, "UNCONFIRMED" is the only value allowed.

}

Example:

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Technical Implementation Reference Guide

```
{
  "productId": "1",
  "locationId": "UPS",
    "transactionID": "MayTest12",
      "partnerId": "001",
  "upscCustomerId": " ",
  "quoteShipmentInfo": {
    "shipperId": "210712156203F0BCSI",
    "shipperName": "CellPhones",
    "carrier": "UPS",
    "shipDate": "2023-05-20",
    "bol": "MayChannelTest",
    "insuredValue": "100.00",
    "commodityCodeType": "UPSC",
    "commodityCode": "400",
    "oversize": "N",
    "usedGoods": "N",
    "modeOfTransport": "2",
    "consigneeName": "Dan Burrow",
    "description": "Big pallet of stuff",
    "shipmentType": "1"
  },
  "destinationAddress": {
    "address1": "123 Main St",
    "address2": ". ",
    "city": "San Diego",
    "state": "CA",
    "postalCode": "98010",
    "countryCode": "US"
  },
  "originAddress": {
    "address1": "123 Main St",
    "address2": ". ",
    "city": "Preston",
    "state": "GA",
    "postalCode": "30290A",
    "countryCode": "US"
  },
  "payablesAttentionTo": "Jane Austin",
  "payablesAddress": {
    "address1": "104320 N Central Expressway",
    "address2": "Ste 7420",
    "city": "Atlanta",
    "state": "a",
    "postalCode": "10101",
    "countryCode": "US"
  }
}
```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```
},  
"shipperPrincipal": "CapitalCorpUSA",  
"shipperAddress": {  
  "address1": "502303 Rightsboro Rd",  
  "address2": ". ",  
  "city": "Lionsgate",  
  "state": "CA",  
  "postalCode": "11133",  
  "countryCode": "US"  
},  
"status": "UNCONFIRMED"  
}
```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

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 payablesAttentionTo String Same as Request 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

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

quoteInfo	telInfo{ productId string locationId string transactionID string partnerId string shipperPrincipal string status string ShipmentStatus Enum: [UNCONFIRMED , CONFIRMED] upscCustomerId string ShipmentInfo: { shipperId string shipperName string carrier string shipDate string(\$date) bol string insuredValue number(\$double) commodityCodeType string commodityCode string oversize boolean usedGoods boolean modeOfTransport string consigneeName string shipmentType int description string deductibleText string deductibleAmount string termsAndConditions string
-----------	--

	<pre> } originAddress: { address1 string address2 string city string state string postalCode string countryCode string } destinationAddress:{ address1 string address2 string city string state string postalCode string countryCode string </pre>
--	--

	<pre> } payablesAddress:{ address1 string address2 string city string state string postalCode string countryCode string } shipperAddress{ address1 string address2 string </pre>
--	--

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

	<pre> { "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>

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

Example:

200 - Successful Operation

```
{
  "quoteId": "5c8bcsdgf-91cc-4cc9-bd20-d885b6c175e0",
  "payablesAttentionTo": "Jane Austin",
  "premiumAmount": "270.40",
  "quoteDateTime": "2017-09-11T09:54:29.521",
  "quoteValidTo": "2017-10-11T09:54:29.521",
  "quoteInfo": {
    "productId": "1",
    "locationId": "111156243106",
    "transactionID": "863345941635",
    "partnerId": "XXX001",
    "shipperPrincipal": "XXXCHEMO",
    "status": "UNCONFIRMED",
    "upscCustomerId": "XXX",
    "shipmentInfo": {
      "shipperId": "W230499252",
      "shipperName": "VIESFHEMO",
      "carrier": "RLCA",
      "shipDate": "2017-10-20",
      "bol": "866033425073",
      "insuredValue": "130120.00",
      "commodityCodeType": "UPSC",
      "commodityCode": "400",
      "oversize": "N",
      "usedGoods": "N",
      "modeOfTransport": "2",
      "consigneeName": "John Doe",
      "shipmentType": "1",
      "description": "Big pallet of stuff",
      "deductibleText": "2.5% of Total Insured Value ($250 Minimum)",
      "deductibleAmount": "$200.00",
      "termsAndConditions": "All Risk Coverage with the following exclusions: ....."
    }
  },
  "originAddress": {
    "address1": "5345003 Waitsboro Rd",
    "address2": ".",
    "city": "Preston",
    "state": "GA",
    "postalCode": "30290",
    "countryCode": "US"
  },
  "destinationAddress": {
    "address1": "3052340 SE 584th St.",
```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```

    "address2": ".",
    "city": "Wombat",
    "state": "WA",
    "postalCode": "98010",
    "countryCode": "US"
  },
  "payablesAddress": {
    "address1": "10350 N Central Expressway",
    "address2": "Ste 7420",
    "city": "Atlanta",
    "state": "PA",
    "postalCode": "10101",
    "countryCode": "US"
  },
  "shipperAddress": {
    "address1": "5034503 Wringsboro Rd",
    "address2": ".",
    "city": "Taylor",
    "state": "PA",
    "postalCode": "11133",
    "countryCode": "US"
  }
}
}
}

```

400 – Invalid Payload format

```

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

```

401 – Authentication Error

```

"response": {
  "errors": [

```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```
{  
  
  "code": "250002",  
  
  "message": "Invalid Authentication Information."  
  
}
```

2.2. Purchase Coverage

Customer's request for purchasing a previously requested insurance quote by providing the necessary shipment and quote information.

Post

<https://onlinetoolsuat.ups.com/ent-services/capon-insurance/v1/coverages>

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 :

InsurancePurchase

QuoteId	String (\$UUID) Required Indicates the UPSC QuoteId(from Quote Response) by UPS Capita corresponding customer requested quote.
productId	String Required Same as in the original quote request
partnerId	String Required Same as in the original quote request
upscCustomerID	String Required Same as in the original quote request
locationID	String

Required
Same as in the original quote request

```
}
```

Example:

```
{
  "quoteId": "75d7a23ba4a64ebe90bf74144849ae41",
  "productId": "1",
  "partnerId": "XXX001",
  "upscCustomerId": "XXX",
  "locationId": "UPS"
}
```

Response

Response
Content Type : application/json

Code	Description
------	-------------

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

200	Successful Operation <pre> "quoteId": "5c8bcd87-91cc-4cc9-bd20-d885b6c175e0", "payablesAttentionTo": "Jane Austin", "premiumAmount": "270.40", "quoteDateTime": "2017-09-11T09:54:29.521", "quoteValidTo": "2017-10-11T09:54:29.521", "quoteInfo": </pre>
400	Invalid payload format ApiResponseFault <pre> { "errors": [{ "errorCode": "400", "errorMessage": "" }] } </pre>
404	Resource not found ApiResponseFault <pre> { code: integer(\$int32), message: string } </pre>
	description string

errors	[errors{ code	string
	field	string
	message	string
	}]	
	}	

Example:

```

200 - Successful Operation
{
  "quoteId": "5c8bcd87-91cc-4cc9-bd20-d885b6c175e0",
  "payablesAttentionTo": "Jane Austin",
  "premiumAmount": "270.40",
  "quoteDateTime": "2017-09-11T09:54:29.521",
  "quoteValidTo": "2017-10-11T09:54:29.521",
  "quoteInfo": {
    "productId": "1",
    "locationId": "1111534566106",
    "transactionID": "869434561635",
    "partnerId": "XXX001",
    "shipperPrincipal": "VGKSDCHEMO",
    "status": "UNCONFIRMED",
    "upscCustomerId": "XXX",  }
}

```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```

"shipmentInfo": {
  "shipperId": "X2304562",
  "shipperName": " VGKSDCHEMO ",
  "carrier": "RLCA",
  "shipDate": "2017-10-20",
  "bol": "86603073",
  "insuredValue": "130120.00",
  "commodityCodeType": "UPSC",
  "commodityCode": "400",
  "oversize": "N",
  "usedGoods": "N",
  "modeOfTransport": "2",
  "consigneeName": "John Doe",
  "shipmentType": "1",
  "description": "Big pallet of stuff",
  "deductibleText": "2.5% of Total Insured Value ($250 Minimum)",
  "deductibleAmount": "$200.00",
  "termsAndConditions": "All Risk Coverage with the following exclusions: ....."
},
"originAddress": {
  "address1": "503203 Leftsboro Rd",
  "address2": ".",
  "city": "Preston",
  "state": "GA",
  "postalCode": "30290",
  "countryCode": "US"
},
"destinationAddress": {
  "address1": "30520 SE 384th St.",
  "address2": ".",
  "city": "Wombat",
  "state": "WA",
  "postalCode": "98010",
  "countryCode": "US"
},
"payablesAddress": {
  "address1": "10340 N Central Expressway",
  "address2": "Ste 73420",
  "city": "Atlanta",
  "state": "PA",
  "postalCode": "10101",
  "countryCode": "US"
},
"shipperAddress": {
  "address1": "50303 Waynesboro Rd",
  "address2": ".",
  "city": "Taylor",
  "state": "PA",
  "postalCode": "11133",
  "countryCode": "US"
}
}

```

2.3. Confirm Shipment

Customer’s request for confirming shipment (after being picked up by a transportation carrier) for which insurance coverage was previously purchased by providing the necessary coverage information.

Post

<https://onlinetoolsuat.ups.com/ent-services/capon-insurance/v1/shipments>

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 Authorization: Bearer: < secure token>
Model : Purchase Coverage

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```
{
  quoteId      String
               Required
  productId    String
               Required
  partnerId    String
               Required
  transactionID String
               Required
  status       String
               Required
               Indicates current status of the Package that is being insured by
               the Channel Partner. Shipment status must be confirmed before
               continuing with purchase.

  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": "a820d5c29bb743d698b78c0286677288",
  "productId": "1",
  "partnerId": "XXX001",
  "transactionID": "MayTest12",
  "status": "Confirmed"
}
```

Response

Response content type :
application/json

Code	Description
------	-------------

28

29

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

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

Example:

200 - Successful Operation

```
{  
  "quoteId": "65f6759c-1b61-4bb3-b28e-811210e1f85b",  
  "payablesAttentionTo": "Jane Austin",  
  "premiumAmount": "270.40",  
}
```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```
"quoteDateTime": "2017-09-11T09:59:39.407",
"quoteValidTo": "2017-10-11T09:59:39.407",
"quoteInfo": {
  "productId": "1",
  "locationId": "11781156106",
  "transactionID": "866789941635",
  "partnerId": "XXX001",
  "shipperPrincipal": "BASDFCHEMO",
  "status": "CONFIRMED",
  "upscCustomerId": "XXX",
  "shipmentInfo": {
    "shipperId": "Y24569252",
    "shipperName": "VDFGCHEMO",
    "carrier": "RLCA",
    "shipDate": "2017-10-20",
    "bol": "866045673073",
    "insuredValue": "130120.00",
    "commodityCodeType": "UPSC",
    "commodityCode": "400",
    "oversize": "N",
    "usedGoods": "N",
    "modeOfTransport": "2",
    "consigneeName": "John Doe",
    "shipmentType": "1",
    "description": "Big pallet of stuff",
    "deductibleText": "2.5% of Total Insured Value ($250 Minimum)",
    "deductibleAmount": "$200.00",
    "termsAndConditions": "All Risk Coverage with the following exclusions: ....."
  },
  "originAddress": {
    "address1": "5035603 Wringsboro Rd",
    "address2": ".",
    "city": "Preston",
    "state": "GA",
    "postalCode": "30290",
    "countryCode": "US"
  },
  "destinationAddress": {
    "address1": "30520 SE 814th St.",
    "address2": ".",
    "city": "Wombat",
    "state": "WA",
    "postalCode": "98010",
    "countryCode": "US"
  },
  "payablesAddress": {
    "address1": "10530 N Central Expressway",
    "address2": "Ste 72670",
    "city": "Atlanta",
    "state": "PA",
    "postalCode": "10101",
    "countryCode": "US"
  },
  "shipperAddress": {
```

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

```
"address1": "503503 Wringsboro Rd",  
"address2": ".",  
"city": "Taylor",  
"state": "PA",  
"postalCode": "11133",  
"countryCode": "US"
```

```
    }  
  }  
}
```

Error Messages

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

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
Purchase Coverage	Product ID field is missing	400	Product ID missing
Purchase Coverage	Invalid Partner ID	401	The Token issued is not valid.
Purchase Coverage	Ship Date field is missing	400	Ship Date missing
Purchase Coverage	Commodity Code is missing	400	CommodityCode missing
Purchase Coverage	Over Size field is missing	400	Oversized information missing
Create Quote	Product ID field is missing	400	Error.Product.Id.Invalid.or.Null
Create Quote	Invalid Product ID	400	Error.Invalid.Product.Id
Create Quote	Location ID field is missing	400	Error.Location.Id.Invalid.or.Null
Create Quote	Location ID is invalid	400	Error.Location.Id.Invalid.or.Null
Create Quote	Shipper Principle is missing or invalid	400	Error.Shipper.Principal.Invalid.or.Null
Create Quote	Payable Attention to is missing or invalid	400	Error.Payables.Attention.To.Invalid.or.Null
Create Quote	Partner ID field is missing	401	The Token issued is not valid.
Create Quote	Partner ID field is Invalid	400	Error.Partner.Id.Invalid.or.Null
Create Quote	UPSC Customer ID is invalid or NULL	400	Error.UPSC.Customer.Id.Invalid.or.Null
Create Quote	Transaction ID is Invalid or Null	400	Error.Transaction.Invalid.or.Null
Create Quote	Status is Invalid or Null	400	Error.Status.Invalid.or.Null
Create Quote	Shipper ID is Invalid or NULL	400	Error.Shipper.Id.Invalid
Create Quote	Shipper Name is Invalid	400	Error.Shipper.Name.Invalid



3.2 Field Validations

36

INSURESHIELD® SHIPPING INSURANCE

Technical Implementation Reference Guide

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	Alphanumeric
InsuredValue	Decimal
CommodityCodeType	Alphanumeric
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