



# Rating - Ground Freight - LTL

## Web Service Developer Guide

February 26, 2018



## Important Information

### UPS Developer Kit APIs

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

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

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# Table of Contents

- Chapter 1: Introduction .....6**
  - Release Features ..... 7**
- Chapter 2: Understanding the Rating Ground Freight API .....11**
  - Business Rules ..... 11**
- Chapter 3: Customer Integration Environment (CIE) .....12**
  - Using Negotiated Rates in CIE ..... 12**
  - Integration Testing..... 12**
  - Production..... 12**
  - Server Availability Check..... 12**
  - Ground Freight Test Cases ..... 14**
- Chapter 4: Rating Ground Freight API Elements and Details .....20**
  - Accessing the Rating Ground Freight Web Service API ..... 20**
  - Element Constraints ..... 20**
  - FreightRate Request Top Level Containers..... 21**
  - FreightRateRequest XPath ..... 22**
    - Request..... 22
    - ShipFrom..... 22
    - ShipTo..... 24
    - PaymentInformation..... 25
    - Service ..... 26
    - HandlingUnitOne ..... 26
    - Commodity ..... 27
    - ShipmentServiceOptions..... 31
    - PickupRequest ..... 38
    - AlternateRateOptions..... 38
    - GFPOptions..... 38
    - HandlingUnitWeight ..... 39
    - AdjustedWeightIndicator ..... 39
    - TimeInTransitIndicator ..... 40
    - HandlingUnits ..... 40
    - AdjustedHeightIndicator ..... 41
    - DensityEligibleIndicator..... 41
    - QuoteNumberIndicator..... 42
  - FreightRateResponse Top Level Containers..... 43**
  - FreightRateResponse XPath ..... 43**
    - Response ..... 43
    - Rate ..... 44
    - FreightDensityRate ..... 46

Commodity .....	46
TotalShipmentCharge .....	47
BillableShipmentWeight .....	48
DimensionalWeight .....	48
Service .....	49
GuaranteedIndicator .....	49
MinimumChargeAppliedIndicator .....	49
AlternateRatesResponse .....	49
TimeInTransit.....	52
HandlingUnits .....	52
QuoteNumber .....	54
<b>Chapter 5: Rating Ground Freight Web Service Examples .....</b>	<b>55</b>
<b>FreightRateRequest Example.....</b>	<b>55</b>
<b>FreightRateResponse Example.....</b>	<b>57</b>
<b>Chapter 6: Rating Ground Freight API FAQs .....</b>	<b>64</b>
<b>Appendices .....</b>	<b>66</b>
<b>Error Codes (WS) .....</b>	<b>67</b>
Common Error Codes .....	67
Rating Ground Freight Error Codes .....	69
Freight Density Rating Error Codes .....	73
<b>FRS/Ground Freight Pricing (GFP) Charge Codes .....</b>	<b>74</b>
<b>Country or Territory Codes.....</b>	<b>76</b>
<b>Ground Freight Classes.....</b>	<b>77</b>
<b>Handling Unit Codes .....</b>	<b>78</b>
<b>Packaging Type Codes .....</b>	<b>79</b>
<b>Charge Type Codes .....</b>	<b>81</b>
<b>Service Codes .....</b>	<b>82</b>
<b>Accessorial / Surcharge Codes .....</b>	<b>83</b>

# Chapter 1: Introduction

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In this document, you will find guidance and instructions for integrating the Rating Ground Freight Web Service into your application, service, or system.

## In this guide, you will find:

- New release features
- Rating Ground Freight Web Service API functionality and business rules
- Web service API request and response schema
- FAQs for the Rating Ground Freight API
- Rating error response code descriptions
- Service code references

## This guide applies to the following API:

- SOAP API for the Rating Ground Freight Web Service

## This guide does not apply to the following APIs:

- Rating Air Freight or Package

## Intended Audience

This guide is intended for developers who will be integrating the Rating Ground Freight Web Service API into their application, service, or system.

## Required Knowledge & Skills

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

- Concepts and instructions in the *Introduction to the UPS Developer Kit* guide
- XML syntax and structure
- Web services
- Software development

## How to Use this Guide

- If this is your first time working with the UPS Developer Kit, begin with the *Introduction to the UPS Developer Kit* guide. This guide serves as the foundation for all API-specific developer guides.
- If you are experienced with the UPS Developer Kit but have not yet worked with the API, continue with [Chapter 2: Understanding the Rating Ground Freight API](#). There you will find an overview of the API functionality and business rules.
- [Chapter 3: Customer Integration Environment \(CIE\)](#) contains information on UPS integration environments.
- [Chapter 4: Rating Ground Freight API Elements and Details](#) contains an overview of the top-level containers and elements that comprise the request and response.
- Request and response examples are located in [Chapter 5: Rating Ground Freight Web Service Examples](#).
- [Chapter 6: Rating Ground Freight API FAQs](#) contains frequently asked questions.
- Reference tables, services codes, and error codes are located in the [Appendices](#).

## Release Features

### January 2018

#### Description

##### New Subversion – 1801

- Including this SubVersion in a request made with the UPSSecurity schema will return the additional SubTypeCode of itemized charges rate type

##### New Elements

- /FreightRateResponse/AlternateRatesResponse/Rate/SubTypeCode

### July 2017

#### Description

##### Commercial Inside Release Enhancements

- Ground Freight Rate to support new account level indication - Commercial US Domestic Signature Required Accessorial

##### Extreme Length Ground Freight (LTL) Accessorial

- Ground Freight Rate to support new request element, Linear Feet to improve user experience with package dimensions

##### New Elements

- /FreightRateRequest/ShipmentServiceOptions/LinearFeet

##### New Error Codes

- 9368791

### January 2017

#### Description

##### Enhancements to Ground Freight API

- Quote ID is a reference number used to validate a rate request
- Create a positive experience for the customer
- Maintain competitiveness within the LTL market

##### New Elements

- /FreightRateRequest/QuoteNumberIndicator
- /FreightRateResponse/QuoteNumber

### July 2016

#### Description

UPS Ground Freight Pricing (GFP) offered as a General Service Offering (GSO)

- Contract no longer required

Description
<ul style="list-style-type: none"> <li>• Display rate comparison results from UPS Freight interline origin points</li> </ul>
<b>New container/element</b> <ul style="list-style-type: none"> <li>• /FreightRateRequest/GFPOptions/OnCallInformation/ <ul style="list-style-type: none"> <li>○ OnCallPickupIndicator</li> </ul> </li> </ul>
<b>New element: ResidentialAddressIndicator</b> <ul style="list-style-type: none"> <li>• /FreightRateRequest/ShipFrom/Address/ResidentialAddressIndicator <ul style="list-style-type: none"> <li>• When On Call Pickup charges are provided for GFP, the API will include the Residential surcharge as part of the On Call Pickup when the Ship From address is residential.</li> </ul> </li> <li>• /FreightRateRequest/ShipTo/Address/ResidentialAddressIndicator <ul style="list-style-type: none"> <li>• When the Ship To address is residential, the API will include a residential surcharge for GFP.</li> </ul> </li> </ul>
<b>New Error Codes</b>

## January 2016

Description
<b>Rebranding of the US and MX services</b> <ul style="list-style-type: none"> <li>• UPS Freight® LTL will be rebranded to UPS® Standard LTL</li> <li>• New Service code - 349</li> </ul>

## July 2015

No changes.

## January 2015

Description
<b>Support Density Based Rating within</b> <ul style="list-style-type: none"> <li>• Density-Based Rating (DBR) is a new method of determining the rate for a shipment based on the shipment size and weight, in combination with origin and destination zip codes</li> <li>• With Density Based Rating there is no need to know the exact NMFC commodity description and NMFC freight classification, as required with traditional LTL rating</li> <li>• A Density-Based rating pricing contract is required for all freight products to support this functionality</li> <li>• Customers must have density pricing in place with UPS Freight before they can rate using this option</li> </ul>



**Description****New Request element/container**

- /FreightRateRequest
  - DensityEligibleIndicator
  - AdjustedHeightIndicator
- /FreightRateRequest/ShipmentServiceOptions/AdjustedHeight
  - Value
  - UnitOfMeasurement
- /FreightRateRequest/ShipmentServiceOptions/AdjustedHeight/UnitOfMeasurement
  - Code
  - Description
- /FreightRateRequest/HandlingUnits
  - Quantity
  - Type
  - Dimensions
- /FreightRateRequest/HandlingUnits/Type
  - Code
  - Description
- /FreightRateRequest/HandlingUnits/Dimensions
  - UnitOfMeasurement
  - Length
  - Width
  - Height
- /FreightRateRequest/HandlingUnits/Dimensions/UnitOfMeasurement
  - Code
  - Description

**Description****New Response element/container:**

- /FreightRateResponse/FreightDensityRate
  - Density
  - TotalCubicFeet
- /FreightRateResponse/HandlingUnits
  - Quantity
  - Type
  - Dimensions
  - AdjustedHeights
- /FreightRateResponse/HandlingUnits/Type
  - Code
  - Description
- /FreightRateResponse/HandlingUnits/Dimensions
  - UnitOfMeasurement
  - Length
  - Width
  - Height
- /FreightRateResponse/HandlingUnits/Dimensions/UnitOfMeasurement
  - Code
  - Description
  - /FreightRateResponse/HandlingUnits/AdjustedHeight
  - Value
  - UnitOfMeasurement
- /FreightRateResponse/HandlingUnits/AdjustedHeight/UnitOfMeasurement
  - Code
  - Description
- /FreightRateResponse/AlternateRatesResponse/FreightDensityRate
  - Density
  - TotalCubicFeet

**New error codes**

## Chapter 2: Understanding the Rating Ground Freight API

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### Business Rules

#### General

- UPS expects schema elements/tags as defined in the XPath and presented in the schema structure without spelling or structural deviations. Elements/tags that are not defined in the schema or do not conform to the schema structure will be ignored by UPS.
- Only users that plan to ship packages manifested, tendered, and delivered by UPS can use the API.
- Any customers/developers abusing or data mining the API will have their access revoked.
- To access API documentation the user must have or create a UPS profile.
- To access testing and production sites the user must have an Access Key. To get an Access Key you must have a UPS profile and an associated shipping account. For additional information, refer to the [UPS Developer Kit User Guide](#).

#### Rating Ground Freight Rules

- The Rating Ground Freight API cannot be used to access rates or data from proprietary rate basing systems or licensed products that are not the property of UPS. The Rating Ground Freight API may not be used by brokers or resellers of transportation services. The Shipping and Pickup APIs are the products of UPS and are available to all customers.
- Must be registered with a user ID and password for both MYUPS and MYLTL in order to see Negotiated Rates. For additional information, refer to the *LTL Instructions for Negotiated Rates* guide in the Developer Kit.
  - All shipping and billing locations must be included in the Ground Freight registration.
- Requests for utilizing the Rating Ground Freight API with data from proprietary rate basing systems or licensed products that are not the property of UPS can only be considered after approval from the owning authority. Upon application for access to the Rating Ground Freight API, UPS Freight will request approval from the owning authority prior to completing the application request.
- The Rating Ground Freight API may only be used by brokers or resellers of transportation services with a current and active UPGF Master Transportation Agreement. The Shipping and Pickup APIs are the products of UPS and are available to all customers.

#### Negotiated Rates

- To view negotiated rates for Ground Freight rates please contact your Account Executive.
- Must be registered with a user ID and password for both MYUPS and MYLTL in order to see Negotiated Rates.

#### UPS Freight Density Rates

UPS Freight Density Rates provide a new rating method based on dimensional weight for the UPS Freight Less Than Truckload (LTL) and UPS Ground with Freight Pricing (GFP) customers who ship using the Shipping API – Ground.

## Chapter 3: Customer Integration Environment (CIE)

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The Customer Integration Environment allows customers to test their application prior to launch. This environment is intended for integration testing of customer applications with the UPS servers.

Once your application has been thoroughly tested, you should redirect the application to the UPS Production Environment.



No stress testing should ever be performed by customers against any UPS systems.

To access testing and production sites the user must have an Access Key. You can request an Access Key after establishing a UPS profile and associating your shipping account.

Test your Rate and Service selections using valid and invalid data elements including postal codes, weights, and package types. This will ensure that your application has the ability to process success and error responses correctly.

### System Availability

The Customer Integration Environment is available 24 hours a day, 7 days a week. Note, the system is occasionally down for server maintenance.

### LTL Freight Country or Territory Origins

LTL Freight country or territory origins include US, CA & MX. The US territory means the contiguous 48 states of the US and Washington DC. While we service Hawaii, Alaska, Guam, Puerto Rico and the US Virgin Islands, those rates can only be obtained by calling UPS Freight Customer Service at (800) 333-7400.

### Using Negotiated Rates in CIE

The negotiated rates returned do not reflect the contractual rate and may vary.

Also, in the Customer Integration Environment, the shipper eligibility for negotiated rates is not fully verified.

Typically the Negotiated Rates in CIE are as follows:

- i. Basic Pricing is 67% off the published rate
- ii. Density Based Pricing is 23% off the published rate
- iii. Exception Pricing is 49% off the published rate
- iv. Regional Tier Pricing is 36% off the published rate

### Integration Testing



All API URLs are case sensitive.

For integration testing, direct your Rating Ground Freight Web Service to:

<https://wwwcie.ups.com/webservices/FreightRate>

### Production



All API URLs are case sensitive.

Once testing is complete, direct your Rating Ground Freight Web Service API to the production URL:

<https://onlinetools.ups.com/webservices/FreightRate>

### Server Availability Check

All of the UPS services work using HTTPS POST. If the server is available, it will reply with the service name, remote user, server port, server name, and servlet path.

To see this in action, type the following URL in your web browser: <https://wwwcie.ups.com/webservices/FreightRate>

<b>Server Name:</b>	FreightRateWS
<b>Remote User:</b>	Null
<b>Server Port:</b>	443
<b>Server Name:</b>	wwwcie.ups.com
<b>Servlet Path:</b>	/FreightRate

## Ground Freight Test Cases

Effective July 2016, a user no longer has to complete certification requirements to obtain production access to the Freight API's.

The test scenarios below are provided to assist with the integration of the API.

The values returned for Scenarios 2 through 5 may vary. An issue should only be reported if no amount is returned in the response.

### Scenario 1 – Basic Pricing

#### Input:

Type	Value
Shipper Name	Developer Test 1
Shipper Address	01 Developer Way
Shipper City	Richmond
Shipper State	VA
Shipper (Origin) Zip	23224
Consignee Name	Consignee Test 1
Consignee Address	000 Consignee Street
Consignee City	Allanton
Consignee State	MO
Consignee (Destination) Zip	63025
Prepaid/Collect	P (Prepaid)
Weight (lb)	500
Class	92.5
NMFC	16030 sub 1

#### Output:

Type	Value
Total Freight Charges	450.74
Pickup Confirmation Number	WBU0000103451
BOL Number	9497669

**Scenario 2 – Exception Pricing****Input:**

Type	Value
Shipper Name	Developer Test 2
Shipper Address	202 Developer Way
Shipper City	Atlanta
Shipper State	GA
Shipper (Origin) Zip	30328
Consignee Name	Consignee Test 2
Consignee Address	2000 Consignee Street
Consignee City	Allanton
Consignee State	MO
Consignee (Destination) Zip	63025
Prepaid/Collect	P (Prepaid)
Weight (lb)	500
NMFC	16030 sub 1
Class	92.5

**Output:**

Type	Value
Disc	70%
Total Charges	\$286.11

**Scenario 3 – Regional Tier Pricing****Input:**

Type	Value
Shipper Name	Developer Test 2
Shipper Address	202 Developer Way
Shipper City	Atlanta
Shipper State	GA
Shipper (Origin) Zip	30328
Consignee Name	Consignee Test 3

Type	Value
Consignee Address	3000 Consignee Street
Consignee City	Richmond
Consignee State	VA
Consignee (Destination) Zip	23224
Prepaid/Collect	P (Prepaid)
Weight (lb)	500
Class	92.5
NMFC	16030 sub 1

**Output:**

Type	Value
Disc	72%
Total Charges	\$198.15

**Scenario 4 – Accessorial Charge Exception****Input:**

Type	Value
Shipper Name	Developer Test 2
Shipper Address	202 Developer Way
Shipper City	Atlanta
Shipper State	GA
Shipper (Origin) Zip	30328
Consignee Name	Consignee Test 3
Consignee Address	3000 Consignee Street
Consignee City	Richmond
Consignee State	VA
Consignee (Destination) Zip	23224
Prepaid/Collect	P (Prepaid)
Weight (lb)	500
Class	92.5
NMFC	16030 sub 1



Type	Value
Accessorial	NTFN (Notification)

**Output:**

Type	Value
Disc	72%
Total Charges	\$198.15

**Scenario 5 – Canadian Pricing****Input:**

Type	Value
Shipper Name	Developer Test 2
Shipper Address	202 Developer Way
Shipper City	Atlanta
Shipper State	GA
Shipper (Origin) Zip	30328
Consignee Name	Consignee Test 5
Consignee Address	5000 Consignee Street
Consignee City	St Johns
Consignee State	NF
Consignee (Destination) Zip	A1A1A1
Prepaid/Collect	P (Prepaid)
Weight (lb)	500
Class	92.5
NMFC	16030 sub 1
Service	LTL
Handling Unit One Code	SKD

**Output:**

Type	Value
Disc	70%
Total Charges	\$ 1375.42

**Scenario 6: Density Based Pricing – contract service****Input:**

TYPE	VALUE
Shipper Name	Developer TEST 3
Shipper Address	303 Developer Way
Shipper City	Richmond
Shipper State	VA
Shipper (Origin) Zip	23234
Consignee Name	Consignee Test 1
Consignee Address	000 Consignee Street
Consignee City	Allanton
Consignee State	MO
Consignee (Destination) Zip	63025
Prepaid/Collect	P (PREPAID)
Weight (lb)	500
Number of HandlingUnits	
Length	48
Width	48
Height	96

**Output:**

TYPE	VALUE
DISC	8%
Density	2.0 lbs/CFT
Total Cubic Feet	20.00
Total Charges	450.14

**Scenario 7: Density Based Pricing**

Multi Handling Unit/dimensions

**Input:**

TYPE	VALUE
Shipper Name	Developer TEST 3

TYPE	VALUE
Shipper Address	303 Developer Way
Shipper City	Richmond
Shipper State	VA
Shipper (Origin) Zip	23234
Consignee Name	Consignee Test 1
Consignee Address	000 Consignee Street
Consignee City	Allanton
Consignee State	MO
Consignee (Destination) Zip	63025
Prepaid/ Collect	P (PREPAID)
Weight (lb)	500
Number of HandlingUnits	2
Length (H/U#1)	48
Width (H/U#1)	48
Height (H/U#1)	96
Length (H/U#2)	40
Width (H/U#2)	40
Height (H/U#2)	48

**Output:**

TYPE	VALUE
DISC	8%
Density	9.0 lbs/CFT
Total Cubic Feet	72.44
Total Charges	529.16

## Chapter 4: Rating Ground Freight API Elements and Details


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### Accessing the Rating Ground Freight Web Service API

<b>Access the Service at:</b>	<a href="http://onlinetools.ups.com/webservices/FreightRate">http://onlinetools.ups.com/webservices/FreightRate</a>
<b>Service Operation:</b>	GetRate
<b>Rate Operation:</b>	Type: Request-Response (client sends a request to UPS and the UPS server replies with a response) SOAPAction Header: <a href="http://onlinetools.ups.com/webservices/FreightRateBinding">http://onlinetools.ups.com/webservices/FreightRateBinding</a>

### Element Constraints

The Request and Response XPath tables contain the full hierarchy of the API elements.

-  UPS expects schema elements/tags as defined in the XPath and presented in the schema structure i.e., no spelling or structural deviations. Elements/tags that are not defined in the schema or do not conform to the schema structure will be ignored by UPS.

Element constraints are defined as follows:

#### Required

- Yes - indicates the element must be present in the request or response.
- Yes\* - indicates the element must be present in the request if the parent container is present in the request.
- No - indicates the element is optional and may be used if it applies to the request.
- Cond – indicates the element is required under certain conditions.

#### Type

- Container - holds a group of related elements.
- String - consists of alphanumeric characters, spaces, and decimals.

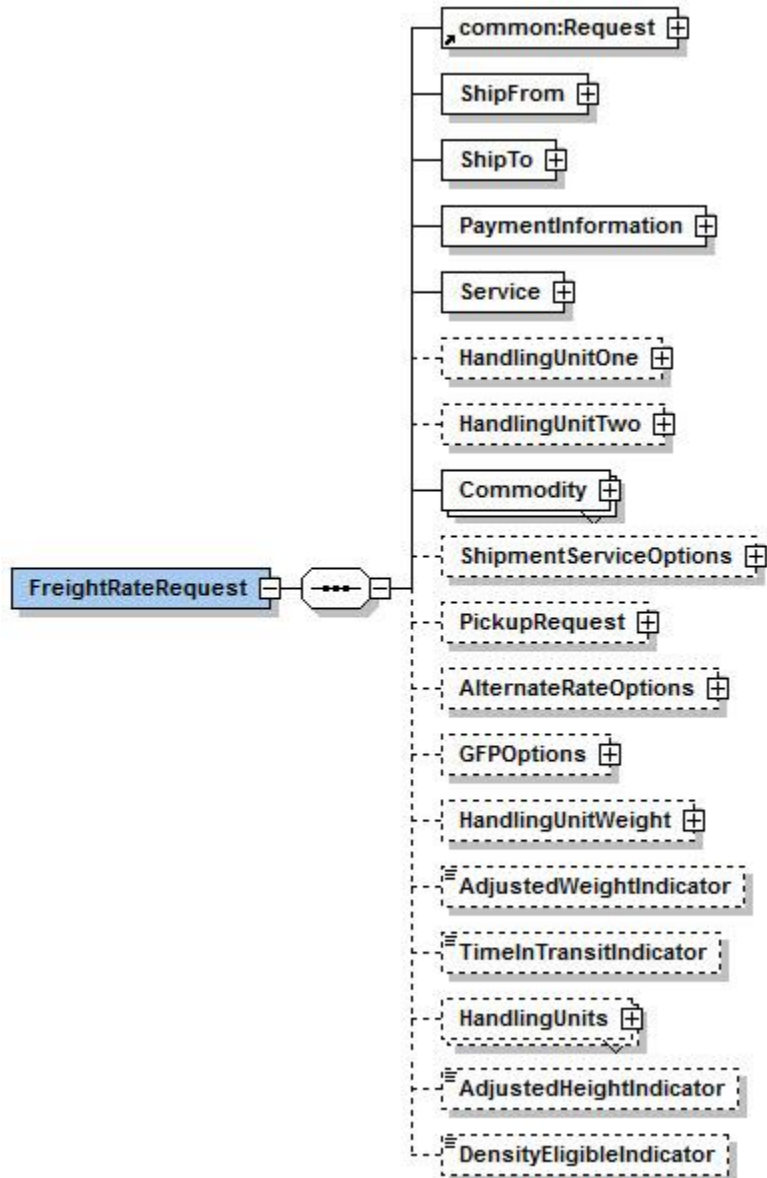
#### Length

- The maximum number of characters that can be present in a String. Length is not applicable (N/A) to Containers.

#### Max Allowed

- The maximum number of elements or containers that can be present in the parent container.

## FreightRate Request Top Level Containers



## FreightRateRequest XPath

Note: Not all containers/elements are reflected separately in the table of contents.

Name	Constraint	Description
<a href="#">/FreightRateRequest</a>		
FreightRateRequest	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Freight Rate Request Container.

## Request

Name	Constraint	Description
<a href="#">/FreightRateRequest/Request</a>		
Request	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Request Container.
<a href="#">/FreightRateRequest/Request/RequestOption</a>		
RequestOption	Required: No Type: String Max Allowed: Unbounded Length: 1...15	Valid Value: 1 = Ground
<a href="#">/FreightRateRequest/Request/SubVersion</a>		
SubVersion	Required: Cond Type: String Max Allowed: 1 Length: 4	<p>When UPS introduces new elements in the response that are not associated with new request elements, Subversion is used. This ensures backward compatibility.</p> <p>To get such elements you need to have the right Subversion. The value of the subversion is explained in the Response element Description.</p> <p>Example: Itemized Charges are returned only when the Subversion element is present and greater than or equal to '1601'.</p> <p>Format: YYMM = Year and month of the release. Example: 1601 = 2016 January</p> <p>Supported values: 1601, 1607, 1701, 1707</p>
<a href="#">/FreightRateRequest/Request/TransactionReference</a>		
TransactionReference	Required: No Type: Container Max Allowed: 1 Length: N/A	TransactionReference identifies transactions between client and server.
<a href="#">/FreightRateRequest/Request/TransactionReference/CustomerContext</a>		
CustomerContext	Required: No Type: String Max Allowed: 1 Length: 1...512	<p>The client uses CustomerContext to synchronize request/response pairs.</p> <p>The client establishes CustomerContext, which can contain any information you want, as long as it is valid XML; it is echoed back by the server.</p>

## ShipFrom

Name	Constraint	Description
<a href="#">/FreightRateRequest/ShipFrom</a>		

Name	Constraint	Description
ShipFrom	Required: Yes Type: Container Max Allowed: 1 Length: N/A	ShipFrom Container.
<a href="#">/FreightRateRequest/ShipFrom/Name</a>		
Name	Required: No Type: String Max Allowed: 1 Length: 35	The ship from location's name or company name.
<a href="#">/FreightRateRequest/ShipFrom/Address</a>		
Address	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Address Container.
<a href="#">/FreightRateRequest/ShipFrom/Address/AddressLine</a>		
AddressLine	Required: No Type: String Max Allowed: 3 Length: 35	The Ship from street address.
<a href="#">/FreightRateRequest/ShipFrom/Address/City</a>		
City	Required: No Type: String Max Allowed: 1 Length: 30	The Ship from city.
<a href="#">/FreightRateRequest/ShipFrom/Address/StateProvinceCode</a>		
StateProvinceCode	Required: Cond Type: String Max Allowed: 1 Length: 5	The Ship from location's state or province code.
<a href="#">/FreightRateRequest/ShipFrom/Address/Town</a>		
Town	Required: No Type: String Max Allowed: 1 Length: 30	The ship from location's town code.
<a href="#">/FreightRateRequest/ShipFrom/Address/PostalCode</a>		
PostalCode	Required: Cond Type: String Max Allowed: 1 Length: 10	The ship from location's postal code.
<a href="#">/FreightRateRequest/ShipFrom/Address/CountryCode</a>		
CountryCode	Required: Yes Type: String Max Allowed: 1 Length: 2	The ship from location's country or territory code.
<a href="#">/FreightRateRequest/ShipFrom/Address/ResidentialAddressIndicator</a>		
ResidentialAddressIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag indicates that the ShipFrom address is residential
<a href="#">/FreightRateRequest/ShipFrom/AttentionName</a>		
AttentionName	Required: No Type: String Max Allowed: 1 Length: 35	Contact name at the ship from location.

## ShipTo

Name	Constraint	Description
<a href="#">/FreightRateRequest/ShipTo</a>		
ShipTo	Required: Yes Type: Container Max Allowed: 1 Length: N/A	ShipTo Container.
<a href="#">/FreightRateRequest/ShipTo/Name</a>		
Name	Required: No Type: String Max Allowed: 1 Length: 35	Consignee's company name.
<a href="#">/FreightRateRequest/ShipTo/Address</a>		
Address	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Address Container.
<a href="#">/FreightRateRequest/ShipTo/Address/AddressLine</a>		
AddressLine	Required: No Type: String Max Allowed: 3 Length: 35	The Ship from street address.
<a href="#">/FreightRateRequest/ShipTo/Address/City</a>		
City	Required: No Type: String Max Allowed: 1 Length: 30	Consignee's city.
<a href="#">/FreightRateRequest/ShipTo/Address/StateProvinceCode</a>		
StateProvinceCode	Required: Cond Type: String Max Allowed: 1 Length: 5	Consignee's state or province code.
<a href="#">/FreightRateRequest/ShipTo/Address/Town</a>		
Town	Required: No Type: String Max Allowed: 1 Length: 30	Consignee's town code.
<a href="#">/FreightRateRequest/ShipTo/Address/PostalCode</a>		
PostalCode	Required: Cond Type: String Max Allowed: 1 Length: 10	Consignee's postal code.
<a href="#">/FreightRateRequest/ShipTo/Address/CountryCode</a>		
CountryCode	Required: Yes Type: String Max Allowed: 1 Length: 2	Consignee's country or territory code.
<a href="#">/FreightRateRequest/ShipTo/Address/ResidentialAddressIndicator</a>		
ResidentialAddressIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag indicates that the ShipTo address is residential
<a href="#">/FreightRateRequest/ShipTo/AttentionName</a>		
AttentionName	Required: No Type: String Max Allowed: 1 Length: 35	Contact name at the consignee's location.



## PaymentInformation

Name	Constraint	Description
<a href="#">/FreightRateRequest/PaymentInformation</a>		
PaymentInformation	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Payment Information Container.
<a href="#">/FreightRateRequest/PaymentInformation/Payer</a>		
Payer	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Payer Container.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Name</a>		
Name	Required: Yes Type: String Max Allowed: 1 Length: 35	Payer's company name
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address</a>		
Address	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Address Container.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address/AddressLine</a>		
AddressLine	Required: Yes Type: String Max Allowed: 3 Length: 35	Payer's street address.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address/City</a>		
City	Required: Yes Type: String Max Allowed: 1 Length: 30	Payer's city.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address/StateProvinceCode</a>		
StateProvinceCode	Required: Cond Type: String Max Allowed: 1 Length: 5	Payer's state or province code.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address/Town</a>		
Town	Required: No Type: String Max Allowed: 1 Length: 30	Payer's town code.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address/PostalCode</a>		
PostalCode	Required: Cond Type: String Max Allowed: 1 Length: 10	Payer's postal code.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/Address/CountryCode</a>		
CountryCode	Required: Yes Type: String Max Allowed: 1 Length: 2	Payer's country or territory code.
<a href="#">/FreightRateRequest/PaymentInformation/Payer/ShipperNumber</a>		
ShipperNumber	Required: No Type: String Max Allowed: 1 Length: 10	Payer's six digit account number.

Name	Constraint	Description
<a href="#">/FreightRateRequest/PaymentInformation/Payer/AttentionName</a>		
AttentionName	Required: No Type: String Max Allowed: 1 Length: 35	Contact name at the payer's location.
<a href="#">/FreightRateRequest/PaymentInformation/ShipmentBillingOption</a>		
ShipmentBillingOption	Required: Yes Type: Container Max Allowed: 1 Length: N/A	ShipmentBillingOption Container.
<a href="#">/FreightRateRequest/PaymentInformation/ShipmentBillingOption/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 2	Billing Option Code. Valid values: 10 - Prepaid 30 - Bill to Third Party 40 - Freight Collect
<a href="#">/FreightRateRequest/PaymentInformation/ShipmentBillingOption/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	Billing Option Description.

## Service

Name	Constraint	Description
<a href="#">/FreightRateRequest/Service</a>		
Service	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Service Container.
<a href="#">/FreightRateRequest/Service/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code for the UPS Service associated with the shipment. Refer to Services Codes in the Appendix for valid values.
<a href="#">/FreightRateRequest/Service/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the UPS Service associated with the shipment.

## HandlingUnitOne

Name	Constraint	Description
<a href="#">/FreightRateRequest/HandlingUnitOne</a>		
HandlingUnitOne	Required: Cond Type: Container Max Allowed: 1 Length: N/A	HandlingUnitOne Container. Required, unless HandlingUnitTwo is present with a value of LOO -LOOSE.
<a href="#">/FreightRateRequest/HandlingUnitOne/Quantity</a>		
Quantity	Required: Yes* Type: String Max Allowed: 1 Length: 8	Quantity of the handling unit.
<a href="#">/FreightRateRequest/HandlingUnitOne/Type</a>		

Name	Constraint	Description
Type	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Type container.
<a href="#">/FreightRateRequest/HandlingUnitOne/Type/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with handling unit 1 type. Refer to Handling Unit Codes in the Appendix for valid values.
<a href="#">/FreightRateRequest/HandlingUnitOne/Type/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the handling unit type.
<a href="#">/FreightRateRequest/HandlingUnitTwo</a>		
HandlingUnitTwo	Required: No Type: Container Max Allowed: 1 Length: N/A	HandlingUnitTwo Container.
<a href="#">/FreightRateRequest/HandlingUnitTwo/Quantity</a>		
Quantity	Required: Yes* Type: String Max Allowed: 1 Length: 8	Quantity of the handling unit.
<a href="#">/FreightRateRequest/HandlingUnitTwo/Type</a>		
Type	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Type container.
<a href="#">/FreightRateRequest/HandlingUnitTwo/Type/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with handling unit 2 type. Refer to Handling Unit Codes in the Appendix for valid values.
<a href="#">/FreightRateRequest/HandlingUnitTwo/Type/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the handling unit type.

## Commodity

Name	Constraint	Description
<a href="#">/FreightRateRequest/Commodity</a>		
Commodity	Required: Yes Type: Container Max Allowed: Unbounded Length: N/A	Commodity Container.
<a href="#">/FreightRateRequest/Commodity/CommodityID</a>		
CommodityID	Required: No Type: String Max Allowed: 1 Length: 35	Unique identifier for the commodity.
<a href="#">/FreightRateRequest/Commodity/Description</a>		

Name	Constraint	Description
Description	Required: Yes Type: String Max Allowed: 1 Length: 755	Description of the line item.
<a href="#">/FreightRateRequest/Commodity/Weight</a>		
Weight	Required: Cond Type: Container Max Allowed: 1 Length: N/A	CommodityWeight Container. Required if ShipmentTotalWeight is not provided.
<a href="#">/FreightRateRequest/Commodity/Weight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	The value for the line item weight associated with the shipment. Valid characters: 0-9 and "." (Decimal point). Maximum of 2 digits after the decimal. Maximum field length: 16 characters. The decimal ".", does not count as a character. Examples: #####.## #####.# #####
<a href="#">/FreightRateRequest/Commodity/Weight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	CommodityWeight UnitOfMeasurement Container.
<a href="#">/FreightRateRequest/Commodity/Weight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with the unit of measure for the line item. Valid values: LBS – Pounds
<a href="#">/FreightRateRequest/Commodity/Weight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the unit of measure associated with the line item.
<a href="#">/FreightRateRequest/Commodity/AdjustedWeight</a>		
AdjustedWeight	Required: No Type: Container Max Allowed: 1 Length: N/A	Adjusted Weight Container.
<a href="#">/FreightRateRequest/Commodity/AdjustedWeight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	Adjusted weight value for the commodity.
<a href="#">/FreightRateRequest/Commodity/AdjustedWeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Unit of Measurement container for the Adjusted weight.
<a href="#">/FreightRateRequest/Commodity/AdjustedWeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	Code associated with the Unit of Measurement for the Adjusted weight.
<a href="#">/FreightRateRequest/Commodity/AdjustedWeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String	Description for the code associated with the Unit of Measurement for the Adjusted weight.

Name	Constraint	Description
	Max Allowed: 1 Length: 35	
<a href="#">/FreightRateRequest/Commodity/Dimensions</a>		
Dimensions	Required: Cond Type: Container Max Allowed: 1 Length: N/A	Dimensions Container.
<a href="#">/FreightRateRequest/Commodity/Dimensions/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement Container.
<a href="#">/FreightRateRequest/Commodity/Dimensions/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with the unit of measure for the line item dimension.
<a href="#">/FreightRateRequest/Commodity/Dimensions/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the unit of measure associated with the line item dimension.
<a href="#">/FreightRateRequest/Commodity/Dimensions/Length</a>		
Length	Required: Yes* Type: String Max Allowed: 1 Length: 16	The length of the line item used to determine dimensional weight. Valid characters: 0-9 and "." (Decimal point). Maximum of 2 digits after the decimal. Maximum field length: 16 characters. The decimal ".", does not count as a character. Examples: #####.## #####.# #####
<a href="#">/FreightRateRequest/Commodity/Dimensions/Width</a>		
Width	Required: Yes* Type: String Max Allowed: 1 Length: 16	The width of the line item used to determine dimensional weight. For valid formatting, see Length above.
<a href="#">/FreightRateRequest/Commodity/Dimensions/Height</a>		
Height	Required: Yes* Type: String Max Allowed: 1 Length: 16	The height of the line item used to determine dimensional weight. For valid formatting, see Length above.
<a href="#">/FreightRateRequest/Commodity/NumberOfPieces</a>		
NumberOfPieces	Required: Yes Type: String Max Allowed: 1 Length: 6	Number of piece of the commodity in the handling unit.
<a href="#">/FreightRateRequest/Commodity/PackagingType</a>		
PackagingType	Required: Yes Type: Container Max Allowed: 1 Length: N/A	PackagingType Container.
<a href="#">/FreightRateRequest/Commodity/PackagingType/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code for the UPS packaging type associated with the shipment. Refer to Packaging Type Codes in the Appendix for valid values.

Name	Constraint	Description
<a href="#">/FreightRateRequest/Commodity/PackagingType/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the UPS packaging type associated with the shipment.
<a href="#">/FreightRateRequest/Commodity/DangerousGoodsIndicator</a>		
DangerousGoodsIndicator	Required: Cond Type: String Max Allowed: 1 Length: 0	The presence of the tag DangerousGoodsIndicator indicates that the commodity is of type dangerous goods. Required for at least one commodity when the dangerous goods accessorial is passed.
<a href="#">/FreightRateRequest/Commodity/CommodityValue</a>		
CommodityValue	Required: No Type: Container Max Allowed: 1 Length: N/A	CommodityValue Container.
<a href="#">/FreightRateRequest/Commodity/CommodityValue/CurrencyCode</a>		
CurrencyCode	Required: Cond Type: String Max Allowed: 1 Length: 3	Commodity value currency code type. Required when value of commodity is entered. Valid value: USD - United States Dollar
<a href="#">/FreightRateRequest/Commodity/CommodityValue/MonetaryValue</a>		
MonetaryValue	Required: Yes* Type: String Max Allowed: 1 Length: 16	Commodity value amount.
<a href="#">/FreightRateRequest/Commodity/FreightClass</a>		
FreightClass	Required: No Type: String Max Allowed: 1 Length: 10	Freight Classification. Refer to Ground Freight Classes in the Appendix for valid values.
<a href="#">/FreightRateRequest/Commodity/NMFCCommodityCode</a>		
NMFCCommodityCode	Required: No Type: String Max Allowed: 1 Length: 0..8	National Motor Freight Classification Commodity code.
<a href="#">/FreightRateRequest/Commodity/NMFCCommodity</a>		
NMFCCommodity	Required: No Type: Container Max Allowed: 1 Length: N/A	Container for National Motor Freight Classification Commodity. This Container is for customers who choose to send the NMFC Prime and sub code as two different fields. This container is mutually exclusive with NMFCCommodityCode element above.
<a href="#">/FreightRateRequest/Commodity/NMFCCommodity/PrimeCode</a>		
PrimeCode	Required: Cond Type: String Max Allowed: 1 Length: 3..6	National Motor Freight Classification Commodity prime code. Must be 6 digits representing the NMFC prime code. This field is required if NMFCCommodity/SubCode is supplied.
<a href="#">/FreightRateRequest/Commodity/NMFCCommodity/SubCode</a>		
SubCode	Required: No Type: String Max Allowed: 1 Length: 0..2	National Motor Freight Classification Commodity sub code. Must be 2 digits representing the NMFC sub code. If this field is supplied, NMFCCommodity/PrimeCode also has to be supplied.

## ShipmentServiceOptions

Name	Constraint	Description
<a href="#">/FreightRateRequest/ShipmentServiceOptions</a>		
ShipmentServiceOptions	Required: No Type: Container Max Allowed: 1 Length: N/A	ShipmentServiceOptions Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions</a>		
PickupOptions	Required: No Type: Container Max Allowed: 1 Length: N/A	PickupOptions Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions/HolidayPickupIndicator</a>		
HolidayPickupIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag HolidayPickupIndicator indicates that the shipment requires a holiday pickup.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions/InsidePickupIndicator</a>		
InsidePickupIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag InsidePickupIndicator indicates that the shipment requires an inside pickup.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions/ResidentialPickupIndicator</a>		
ResidentialPickupIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag ResidentialPickupIndicator indicates that the shipment requires a residential pickup.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions/WeekendPickupIndicator</a>		
WeekendPickupIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag WeekendPickupIndicator indicates that the shipment requires a weekend pickup.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions/LiftGateRequiredIndicator</a>		
LiftGateRequiredIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag LiftGateRequiredIndicator indicates that the shipment requires a lift gate.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/PickupOptions/LimitedAccessPickupIndicator</a>		
LimitedAccessPickupIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag LimitedAccessPickupIndicator indicates that there is limited access for pickups
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions</a>		
DeliveryOptions	Required: No Type: Container Max Allowed: 1 Length: N/A	DeliveryOptions Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/CallBeforeDeliveryIndicator</a>		
CallBeforeDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag CallBeforeDeliveryIndicator indicates that the shipment is going to be delivered after calling the consignee.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/ConstructionSiteDeliveryIndicator</a>		
ConstructionSiteDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag ConstructionSiteDeliveryIndicator indicates that the shipment is going to be delivered at a construction site.

Name	Constraint	Description
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/HolidayDeliveryIndicator</a>		
HolidayDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag HolidayDeliveryIndicator indicates that the shipment is going to be delivered on a holiday.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/InsideDeliveryIndicator</a>		
InsideDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag InsideDeliveryIndicator indicates that the shipment requires an inside delivery.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/ResidentialDeliveryIndicator</a>		
ResidentialDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag ResidentialDeliveryIndicator indicates that the shipment requires a residential delivery.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/WeekendDeliveryIndicator</a>		
WeekendDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag WeekendDeliveryIndicator indicates that the shipment is going to be delivered on a weekend.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/LiftGateRequiredIndicator</a>		
LiftGateRequiredIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag LiftGateRequiredIndicator indicates that the shipment requires a lift gate.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DeliveryOptions/LimitedAccessDeliveryIndicator</a>		
LimitedAccessDeliveryIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag LimitedAccessDeliveryIndicator indicates that there is limited access for delivery.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg</a>		
OverSeasLeg	Required: No Type: Container Max Allowed: 1 Length: N/A	OverSeasLeg Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions</a>		
Dimensions	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Dimensions Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/Volume</a>		
Volume	Required: Cond Type: String Max Allowed: 1 Length: 16	Represents the size as volume.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/Height</a>		
Height	Required: Cond Type: String Max Allowed: 1 Length: 18	The height used to determine dimensional size.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/Length</a>		
Length	Required: Cond Type: String Max Allowed: 1 Length: 18	The length used to determine dimensional size.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/Width</a>		



Name	Constraint	Description
Width	Required: Cond Type: String Max Allowed: 1 Length: 18	The width used to determine dimensional size.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with the unit of measure for the OverSeasLeg dimension.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Dimensions/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the unit of measure associated with the OverSeasLeg dimension.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value</a>		
Value	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Dimensions Value Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value/Cube</a>		
Cube	Required: No Type: Container Max Allowed: 1 Length: N/A	Dimensions Value Cube Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value/Cube/CurrencyCode</a>		
CurrencyCode	Required: Yes* Type: String Max Allowed: 1 Length: 3	Currency code type for Price per cubic feet. Valid value: USD - United States Dollar
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value/Cube/MonetaryValue</a>		
MonetaryValue	Required: Yes* Type: String Max Allowed: 1 Length: 16	Price per cubic feet.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value/CWT</a>		
CWT	Required: No Type: Container Max Allowed: 1 Length: N/A	Dimensions Value CWT Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value/CWT/CurrencyCode</a>		
CurrencyCode	Required: Yes* Type: String Max Allowed: 1 Length: 3	Currency code type for Price per CWT. Valid value: USD - United States Dollar
<a href="#">/FreightRateRequest/ShipmentServiceOptions/OverSeasLeg/Value/CWT/MonetaryValue</a>		
MonetaryValue	Required: Yes* Type: String Max Allowed: 1 Length: 16	Price per CWT.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD</a>		
COD	Required: No Type: Container	COD Container.

Name	Constraint	Description
	Max Allowed: 1 Length: N/A	
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODValue</a>		
CODValue	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	CODValue Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODValue/CurrencyCode</a>		
CurrencyCode	Required: Yes Type: String Max Allowed: 1 Length: 3	COD amount currency code type. Valid value: USD - United States Dollar
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODValue/MonetaryValue</a>		
MonetaryValue	Required: Yes Type: String Max Allowed: 1 Length: 16	COD Amount.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODPaymentMethod</a>		
CODPaymentMethod	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	CODPaymentMethod Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODPaymentMethod/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 1	The code associated with the COD payment method for the shipment service options. Valid values: M - Company Check R - Certified Check
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODPaymentMethod/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the COD payment method associated with the shipment service options.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODBillingOption</a>		
CODBillingOption	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	CODBillingOption Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODBillingOption/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 2	The code associated with the COD billing option for the shipment service options. Valid values: 01 - Prepaid 02 - Freight Collect
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/CODBillingOption/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the COD billing option associated with the shipment service options.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo</a>		
RemitTo	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	RemitTo Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Name</a>		
Name	Required: Yes Type: String	The payee company name for the COD charges.

Name	Constraint	Description
	Max Allowed: 1 Length: 35	
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address</a>		
Address	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Address Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address/AddressLine</a>		
AddressLine	Required: Yes Type: String Max Allowed: 3 Length: 35	Payee Street address for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address/City</a>		
City	Required: Yes Type: String Max Allowed: 1 Length: 30	Payee city code for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address/StateProvinceCode</a>		
StateProvinceCode	Required: No Type: String Max Allowed: 1 Length: 5	Payee state or province code for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address/Town</a>		
Town	Required: No Type: String Max Allowed: 1 Length: 30	Payee town code for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address/PostalCode</a>		
PostalCode	Required: No Type: String Max Allowed: 1 Length: 10	Payee postal code for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/Address/CountryCode</a>		
CountryCode	Required: Yes Type: String Max Allowed: 1 Length: 2	Payee country or territory code for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/COD/RemitTo/AttentionName</a>		
AttentionName	Required: No Type: String Max Allowed: 1 Length: 35	Payee contact name for the COD charges.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods</a>		
DangerousGoods	Required: No Type: Container Max Allowed: 1 Length: N/A	DangerousGoods Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/Name</a>		
Name	Required: Yes* Type: String Max Allowed: 1 Length: 35	The contact name for question re: Dangerous Goods.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/Phone</a>		
Phone	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Phone Container.

Name	Constraint	Description
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/Phone/Number</a>		
Number	Required: Yes Type: String Max Allowed: 1 Length: 15	The contact phone number for question re: Dangerous Goods
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/Phone/Extension</a>		
Extension	Required: No Type: String Max Allowed: 1 Length: 4	The contact phone extension for question re: Dangerous Goods
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/TransportationMode</a>		
TransportationMode	Required: No Type: Container Max Allowed: 1 Length: N/A	TransportationMode Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/TransportationMode/Code</a>		
Code	Required: Yes* Type: String Max Allowed: 1 Length: 10	The code associated with the transportation mode for the dangerous goods.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/DangerousGoods/TransportationMode/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the transportation mode associated with the dangerous goods.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/SortingAndSegregating</a>		
SortingAndSegregating	Required: No Type: Container Max Allowed: 1 Length: N/A	SortingAndSegregating Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/SortingAndSegregating/Quantity</a>		
Quantity	Required: Yes* Type: String Max Allowed: 1 Length: 6	Quantity of units to be sorted/segregated.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/ExcessDeclaredValue</a>		
ExcessDeclaredValue	Required: No Type: Container Max Allowed: 1 Length: N/A	ExcessDeclaredValue Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/ExcessDeclaredValue/CurrencyCode</a>		
CurrencyCode	Required: Yes Type: String Max Allowed: 1 Length: 3	Excess Declared value amount currency type. Valid value: USD - United States Dollar
<a href="#">/FreightRateRequest/ShipmentServiceOptions/ExcessDeclaredValue/MonetaryValue</a>		
MonetaryValue	Required: Yes Type: String Max Allowed: 1 Length: 1..19	Excess Declared value amount.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/HandlingCharge</a>		
HandlingCharge	Required: No Type: Container Max Allowed: 1 Length: N/A	HandlingCharge Container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/HandlingCharge/Percentage</a>		

Name	Constraint	Description
Percentage	Required: Cond Type: String Max Allowed: 1 Length: 7	Percentage amount consistent with the handling charge.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/HandlingCharge/Amount</a>		
Amount	Required: Cond Type: Container Max Allowed: 1 Length: N/A	HandlingCharge Amount Container. Either Percentage or Amount needs to be present, not both.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/HandlingCharge/Amount/CurrencyCode</a>		
CurrencyCode	Required: Yes* Type: String Max Allowed: 1 Length: 3	Handling charge amount currency type.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/HandlingCharge/Amount/MonetaryValue</a>		
MonetaryValue	Required: Yes* Type: String Max Allowed: 1 Length: 16	Handling Charge amount.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/FreezableProtectionIndicator</a>		
FreezableProtectionIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag FreezableProtectionIndicator indicates that the customs clearance is required.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/ExtremeLengthIndicator</a>		
ExtremeLengthIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag ExtremeLengthIndicator indicates that the customs clearance is required. It is recommended to provide 'LinearFeet' if this indicator is sent.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/LinearFeet</a>		
LinearFeet	Required: No Type: String Max Allowed: 1 Length: 2	Dimensional length of the article(s), in 'feet'. Numeric value greater than '0' (Zero) should be given in LinearFeet. If Proper LinearFeet is not provided, accurate charge for extreme length articles might not be returned. If linear feet '0' (Zero) or any non-numeric/invalid character is sent, accurate charge for extreme length articles might not be returned. Ignored if ExtremeLengthIndicator is not present.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/AdjustedHeight</a>		
AdjustedHeight	Required: No Type: Container Max Allowed: 1 Length: N/A	Adjusted Height container.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/AdjustedHeight/Value</a>		
Value	Required: Yes* Type: String Max Allowed: 1 Length: 1..19	Adjusted Height value for the handling unit.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/AdjustedHeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Unit of Measurement container for the Adjusted Height.
<a href="#">/FreightRateRequest/ShipmentServiceOptions/AdjustedHeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String	Code associated with the Unit of Measurement for the Adjusted weight.

Name	Constraint	Description
	Max Allowed: 1 Length: 2	
<a href="#">/FreightRateRequest/ShipmentServiceOptions/AdjustedHeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1..35	Description for the code associated with the Unit of Measurement for the Adjusted weight.

## PickupRequest

Name	Constraint	Description
<a href="#">/FreightRateRequest/PickupRequest</a>		
PickupRequest	Required: No Type: Container Max Allowed: 1 Length: N/A	Container for PickupRequest
<a href="#">/FreightRateRequest/PickupRequest/PickupDate</a>		
PickupDate	Required: Yes* Type: String Max Allowed: 1 Length: 8	Date of the Pickup. Format: YYYYMMDD
<a href="#">/FreightRateRequest/PickupRequest/AdditionalComments</a>		
AdditionalComments	Required: No Type: String Max Allowed: 1 Length: 500	Additional Pickup comments or instructions.

## AlternateRateOptions

Name	Constraint	Description
<a href="#">/FreightRateRequest/AlternateRateOptions</a>		
AlternateRateOptions	Required: No Type: Container Max Allowed: 1 Length: N/A	Container to indicate that alternate rates are requested.
<a href="#">/FreightRateRequest/AlternateRateOptions/Code</a>		
Code	Required: Yes* Type: String Max Allowed: 1 Length: 2	Code for the alternate rate type requested. Valid values: 1 = LTL only 2 = GFP only 3 = GFP and LTL
<a href="#">/FreightRateRequest/AlternateRateOptions/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1..20	Description of the alternate rate type requested above.

## GFPOptions

Name	Constraint	Description
<a href="#">/FreightRateRequest/GFPOptions</a>		
GFPOptions	Required: No Type: Container Max Allowed: 1 Length: N/A	GFP Options container.

Name	Constraint	Description
<a href="#">/FreightRateRequest/GFPOptions/GPFAccessorialRateIndicator</a>		
GPFAccessorialRateIndicator	Required: No Type: String Max Allowed: 1 Length: 0	Indicator for GFP accessorial rate indicator.
<a href="#">/FreightRateRequest/GFPOptions/OnCallInformation/OnCallPickupIndicator</a>		
OnCallPickupIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of OnCallPickupIndicator is to request on call pickup fee in response

## HandlingUnitWeight

Name	Constraint	Description
<a href="#">/FreightRateRequest/HandlingUnitWeight</a>		
HandlingUnitWeight	Required: No Type: Container Max Allowed: 1 Length: N/A	Handling unit weight container.
<a href="#">/FreightRateRequest/HandlingUnitWeight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 9	Handling unit weight value for the shipment.
<a href="#">/FreightRateRequest/HandlingUnitWeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Unit of Measurement container for the handling unit weight.
<a href="#">/FreightRateRequest/HandlingUnitWeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	Code associated with the Unit of Measurement for the handling unit weight.
<a href="#">/FreightRateRequest/HandlingUnitWeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	Description for the code associated with the Unit of Measurement for the handling unit weight.

## AdjustedWeightIndicator

Name	Constraint	Description
<a href="#">/FreightRateRequest/AdjustedWeightIndicator</a>		
AdjustedWeightIndicator	Required: No Type: String Max Allowed: 1 Length: 0	Indicator used to specify if the user wants to subtract the handling unit weight. Defaults to false.  When AdjustedWeightIndicator is set to "true": - If HandlingUnitWeight is present, the HandlingUnitWeight Value will be subtracted and prorated from the FreightLineItem Weight Value. The subtracted/prorated FreightLineItem Weight will be used for GFP rating. - If HandlingUnitWeight is not present and the AdjustedWeightValue is present, the adjusted weight value from the FreightLineItem object will be

Name	Constraint	Description
		<p>used to do a GFP rating request to UPGF.</p> <ul style="list-style-type: none"> <li>- If HandlingUnitWeight is not present and the AdjustedWeightValue is not present, the original weight from the FreightLineItem object will be used to do a GFP rating request to UPGF. In this case, the HandlingUnitWeight value is assume to be zero.</li> </ul> <p>AdjustedWeightIndicator set to "false":</p> <ul style="list-style-type: none"> <li>- The FreightLineItem.Weight will be used for both LTL and GFP rating requests (current functionality). The HandlingUnitWeight or the FreightLineItem.AdjustedWeight will not be used.</li> </ul>

## TimeInTransitIndicator

Name	Constraint	Description
<a href="#">/FreightRateRequest/TimeInTransitIndicator</a>		
TimeInTransitIndicator	Required: No Type: String Max Allowed: 1 Length: 0	Presence of the tag indicates Time in Transit information is requested and will be returned.

## HandlingUnits

Name	Constraint	Description
<a href="#">/FreightRateRequest/HandlingUnits</a>		
HandlingUnits	Required: Cond Type: Container Max Allowed: Unbounded Length: N/A	Handling Unit for Density based rating container. Required if the Shipper is eligible for density based pricing.
<a href="#">/FreightRateRequest/HandlingUnits/Quantity</a>		
Quantity	Required: Yes Type: String Max Allowed: 1 Length: 8	Handling Unit Quantity for Density based rating.
<a href="#">/FreightRateRequest/HandlingUnits/Type</a>		
Type	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Handling Unit Type for Density based rating.
<a href="#">/FreightRateRequest/HandlingUnits/Type/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with Handling Unit Type.
<a href="#">/FreightRateRequest/HandlingUnits/Type/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1...35	A description of the code for the Handling Unit type.
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions</a>		
Dimensions	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Dimension of the HandlingUnit container for density based pricing.



Name	Constraint	Description
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement container.
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	Code for UnitOfMeasurement for the line item dimension. Valid value: IN = Inches
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1...35	Description for UnitOfMeasurement for the line item dimension.
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions/Length</a>		
Length	Required: Yes Type: String Max Allowed: 1 Length: 1...19	The length of the line item used to determine dimensional weight. Valid characters: 0-9 and "." (Decimal point). Maximum of 2 digits after the decimal. Maximum field length: 16 characters. The decimal ".", does not count as a character. Examples: #####.## #####.# #####
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions/Width</a>		
Width	Required: Yes Type: String Max Allowed: 1 Length: 1...19	The width of the line item used to determine dimensional weight. Format: See Length Description above.
<a href="#">/FreightRateRequest/HandlingUnits/Dimensions/Height</a>		
Height	Required: Yes Type: String Max Allowed: 1 Length: 1...19	The height of the line item used to determine dimensional weight. Format: See Length Description above.

## AdjustedHeightIndicator

Name	Constraint	Description
<a href="#">/FreightRateRequest/AdjustedHeightIndicator</a>		
AdjustedHeightIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the AdjustedHeightIndicator indicates that allow the height reduction adjustment for density based rate request.

## DensityEligibleIndicator

Name	Constraint	Description
<a href="#">/FreightRateRequest/DensityEligibleIndicator</a>		
DensityEligibleIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of the tag indicates that the rate request is density based. For Density Based Rating (DBR), the customer must have DBR Contract Service.

## QuoteNumberIndicator

Name	Constraint	Description
<a href="#">/FreightRateRequest/QuoteNumberIndicator</a>		
QuoteNumberIndicator	Required: No Type: String Max Allowed: 1 Length: 0	The presence of this indicator means a Quote Number will be returned for this LTL Freight Rate quote request.

## FreightRateResponse Top Level Containers



## FreightRateResponse XPath

Note: Not all containers/elements are reflected separately in the table of contents.

Name	Constraint	Description
<a href="#">/FreightRateResponse</a>		
FreightRateResponse	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Freight Rate Response Container.

## Response

Name	Constraint	Description
<a href="#">/FreightRateResponse/Response</a>		
Response	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Response Container.
<a href="#">/FreightRateResponse/Response/ResponseStatus</a>		
ResponseStatus	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Response Status Container.
<a href="#">/FreightRateResponse/Response/ResponseStatus/Code</a>		

Name	Constraint	Description
Code	Required: Yes Type: String Max Allowed: 1 Length: 1	Identifies the success or failure of the transaction. 1 = Successful
<a href="#">/FreightRateResponse/Response/ResponseStatus/Description</a>		
Description	Required: Yes Type: String Max Allowed: 1 Length: 1...35	Describes Response Status Code. Returns text of "Success" for a valid request.
<a href="#">/FreightRateResponse/Response/Alert</a>		
Alert	Required: No Type: Container Max Allowed: Unbounded Length: N/A	Alert Container. There can be zero to many alert containers with code and description.
<a href="#">/FreightRateResponse/Response/Alert/Code</a>		
Code	Required: Yes* Type: String Max Allowed: 1 Length: 1...10	Warning code returned by the system.
<a href="#">/FreightRateResponse/Response/Alert/Description</a>		
Description	Required: Yes* Type: String Max Allowed: 1 Length: 1...150	Warning messages returned by the system.
<a href="#">/FreightRateResponse/Response/TransactionReference</a>		
TransactionReference	Required: No Type: Container Max Allowed: 1 Length: N/A	Transaction Reference Container.
<a href="#">/FreightRateResponse/Response/TransactionReference/CustomerContext</a>		
CustomerContext	Required: No Type: String Max Allowed: 1 Length: 1...512	The CustomerContext Information which will be echoed during response.

## Rate

Name	Constraint	Description
<a href="#">/FreightRateResponse/Rate</a>		
Rate	Required: No Type: Container Max Allowed: Unbounded Length: N/A	Rate Container.
<a href="#">/FreightRateResponse/Rate/Type</a>		
Type	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Rate Type Container
<a href="#">/FreightRateResponse/Rate/Type/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 10	The code associated with the rate type. 2 = Fuel Surcharge ADV_NOTF = Arrival Notification COD = C.O.D fee INDE_INPU = Inside Pickup /Delivery

Name	Constraint	Description
		LIFTGATE = Liftgate Fee RESI_PU_DEL = Residential Pickup / Delivery CON_ST_DEL = Construction Site Delivery HOL_WE_PU_DEL = Holiday/Weekend Pickup or Delivery SORT = Sorting and Segregation HAZMAT = Ground Freight Hazardous Materials Charge RMTLOC = Remote Location Fee CA_CSTM_MNFST = Custom Manifest Fee CA_BORDER = Border Processing Fee HICST = High Cost Service Area Surcharge DEFICITRATE = Deficit Rate DEFICITWGHT = Deficit Weight DFCT_AMT = Deficit Charge L_UPGF_016 = Custom Charge MINCHARGE = Minimum Charge Applies LND_GROSS = Gross Charges DSCNT_RATE = Discount Rate DSCNT = Discounted Amount AFTR_DSCNT = Amount After Discount OFUELSURCHG = Ocean Fuel Surcharge TOTO = Total Ocean Charges TOTI = Total Island Charges GUAR_SERVICE = Guaranteed service Charges LAPU_LADL = Limited Access Pickup/ Delivery EXLT = Excessive Length PFFF = Freezable Protection EXLI = Excess Declared Value
<a href="#">/FreightRateResponse/Rate/Type/Description</a>		
Description	Required: Yes Type: String Max Allowed: 1 Length: 80	A text description of the code for the rate charge.
<a href="#">/FreightRateResponse/Rate/Factor</a>		
Factor	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Factor Container.
<a href="#">/FreightRateResponse/Rate/Factor/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	Contains value pertaining to rate type code. For example, if discount rate is 25% then rate charge code will have code type as "DISCOUNT_RATE" and rate factor value will have 25.
<a href="#">/FreightRateResponse/Rate/Factor/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: No Type: Container Max Allowed: 1 Length: N/A	Unit of measurement container for factors related to Rate Types.
<a href="#">/FreightRateResponse/Rate/Factor/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	This will contain measurement unit (e.g. LBS for weight, USD for dollar amount). Rate should have code type that pertains to Unit Of Measurement Code. For example: if rate type code has code type "DISCOUNT" then Unit Of Measurement Code should be "USD" to represent the measurement unit of discounted dollar amount.
<a href="#">/FreightRateResponse/Rate/Factor/UnitOfMeasurement/Description</a>		

Name	Constraint	Description
Description	Required: No Type: String Max Allowed: 1 Length: 35	Description of unit of measurement code for rate factors

## FreightDensityRate

Name	Constraint	Description
<a href="#">/FreightRateResponse/FreightDensityRate</a>		
FreightDensityRate	Required: cond Type: Container Max Allowed: 1 Length: N/A	FreightDensityRate container for Density based rating.
<a href="#">/FreightRateResponse/FreightDensityRate/Density</a>		
Density	Required: Yes Type: String Max Allowed: 1 Length: N/A	Density if the Shipper is eligible for Density based rate.
<a href="#">/FreightRateResponse/FreightDensityRate/TotalCubicFeet</a>		
TotalCubicFeet	Required: Yes Type: String Max Allowed: 1 Length: N/A	TotalCubic feet is returned if the Shipper is eligible for Density based rate.

## Commodity

Name	Constraint	Description
<a href="#">/FreightRateResponse/Commodity</a>		
Commodity	Required: Yes Type: Container Max Allowed: Unbounded Length: N/A	Commodity Container.
<a href="#">/FreightRateResponse/Commodity/CommodityID</a>		
CommodityID	Required: No Type: String Max Allowed: 1 Length: 35	Unique identifier for the commodity.
<a href="#">/FreightRateResponse/Commodity/Description</a>		
Description	Required: Yes Type: String Max Allowed: 1 Length: 35	Description of the line item.
<a href="#">/FreightRateResponse/Commodity/Weight</a>		
Weight	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Commodity Weight Container.
<a href="#">/FreightRateResponse/Commodity/Weight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	The value for the line item weight associated with the shipment.
<a href="#">/FreightRateResponse/Commodity/Weight/UnitOfMeasurement</a>		

Name	Constraint	Description
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	CommodityWeight UnitOfMeasurement Container.
<a href="#">/FreightRateResponse/Commodity/Weight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with the unit of measure for the line item.
<a href="#">/FreightRateResponse/Commodity/Weight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the code for the unit of measure associated with the line item.
<a href="#">/FreightRateResponse/Commodity/AdjustedWeight</a>		
AdjustedWeight	Required: No Type: Container Max Allowed: 1 Length: N/A	Adjusted Weight Container.
<a href="#">/FreightRateResponse/Commodity/AdjustedWeight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	Adjusted weight value for the commodity.
<a href="#">/FreightRateResponse/Commodity/AdjustedWeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Unit of Measurement container for the Adjusted weight.
<a href="#">/FreightRateResponse/Commodity/AdjustedWeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	Code associated with the Unit of Measurement for the Adjusted weight.
<a href="#">/FreightRateResponse/Commodity/AdjustedWeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	Description for the code associated with the Unit of Measurement for the Adjusted weight.

## TotalShipmentCharge

Name	Constraint	Description
<a href="#">/FreightRateResponse/TotalShipmentCharge</a>		
TotalShipmentCharge	Required: No Type: Container Max Allowed: 1 Length: N/A	TotalShipmentCharge Container.
<a href="#">/FreightRateResponse/TotalShipmentCharge/CurrencyCode</a>		
CurrencyCode	Required: Yes Type: String Max Allowed: 1 Length: 3	Total shipment Charge currency code type.
<a href="#">/FreightRateResponse/TotalShipmentCharge/MonetaryValue</a>		

Name	Constraint	Description
MonetaryValue	Required: Yes Type: String Max Allowed: 1 Length: 16	Total shipment charge.

## BillableShipmentWeight

Name	Constraint	Description
<a href="#">/FreightRateResponse/BillableShipmentWeight</a>		
BillableShipmentWeight	Required: No Type: Container Max Allowed: 1 Length: N/A	BillableShipmentWeight Container.
<a href="#">/FreightRateResponse/BillableShipmentWeight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	The value for the billable weight associated with the shipment.
<a href="#">/FreightRateResponse/BillableShipmentWeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement Container.
<a href="#">/FreightRateResponse/BillableShipmentWeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with the unit of measure for the billable weight of a shipment.
<a href="#">/FreightRateResponse/BillableShipmentWeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	The description for the billable weight associated with the shipment.

## DimensionalWeight

Name	Constraint	Description
<a href="#">/FreightRateResponse/DimensionalWeight</a>		
DimensionalWeight	Required: No Type: Container Max Allowed: 1 Length: N/A	DimensionalWeight Container.
<a href="#">/FreightRateResponse/DimensionalWeight/Value</a>		
Value	Required: Yes* Type: String Max Allowed: 1 Length: 5	The value for the dimensional weight associated with the shipment.
<a href="#">/FreightRateResponse/DimensionalWeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement Container.
<a href="#">/FreightRateResponse/DimensionalWeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String	The code associated with the unit of measure for the dimensional weight of a shipment.



Name	Constraint	Description
	Max Allowed: 1 Length: 2	
<a href="#">/FreightRateResponse/DimensionalWeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	The description for the dimensional weight associated with the shipment.

## Service

Name	Constraint	Description
<a href="#">/FreightRateResponse/Service</a>		
Service	Required: No Type: Container Max Allowed: 1 Length: N/A	Service Container.
<a href="#">/FreightRateResponse/Service/Code</a>		
Code	Required: Yes* Type: String Max Allowed: 1 Length: 3	The code for the UPS Service associated with the shipment.
<a href="#">/FreightRateResponse/Service/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	A text description of the UPS Service associated with the shipment.

## GuaranteedIndicator

Name	Constraint	Description
<a href="#">/FreightRateResponse/GuaranteedIndicator</a>		
GuaranteedIndicator	Required: No Type: String Max Allowed: 1 Length: N/A	This is an empty tag. The presence of the indicator indicates the rate returned is guaranteed.

## MinimumChargeAppliedIndicator

Name	Constraint	Description
<a href="#">/FreightRateResponse/MinimumChargeAppliedIndicator</a>		
MinimumChargeAppliedIndicator	Required: No Type: String Max Allowed: 1 Length: N/A	This is an empty tag. The presence of the tag indicates the rate returned has a minimum charge applied to it.

## AlternateRatesResponse

Name	Constraint	Description
<a href="#">/FreightRateResponse/AlternateRatesResponse</a>		
AlternateRatesResponse	Required: No Type: Container Max Allowed: Unbounded Length: N/A	Container for alternate rates including FRS rates

Name	Constraint	Description
<a href="#">/FreightRateResponse/AlternateRatesResponse/AlternateRateType</a>		
AlternateRateType	Required: Yes* Type: Container Max Allowed: 1 Length: N/A	Container for the type of alternate rate
<a href="#">/FreightRateResponse/AlternateRatesResponse/AlternateRateType/Code</a>		
Code	Required: Yes* Type: String Max Allowed: 1 Length: 2	Code for the Alternate Rate Type. 1 = LTL only 2 = GFP only 3 = GFP and LTL
<a href="#">/FreightRateResponse/AlternateRatesResponse/AlternateRateType/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1..35	Alternate Rate Type description.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate</a>		
Rate	Required: Yes* Type: Container Max Allowed: Unbounded Length: N/A	Rate Container.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Type</a>		
Type	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Rate Type Container
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Type/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 10	The code associated with the rate type. Refer to Rate Type Codes in the Appendix for valid values.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Type/Description</a>		
Description	Required: Yes Type: String Max Allowed: 1 Length: 80	A text description of the code for the rate charge.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/SubTypeCode</a>		
SubTypeCode	Required: No Type: String Max Allowed: 1 Length: 3	Subversion-1801 The subtype of itemized charges rate type. Please look at Appendix, Accessorial / Surcharge Codes.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Factor</a>		
Factor	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Factor Container.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Factor/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	Contains value pertaining to rate type code. For example: if the discount rate is 25% then the rate charge code will have code type as "DISCOUNT_RATE" and rate factor value will have 25.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Factor/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: No Type: Container Max Allowed: 1 Length: N/A	Unit of measurement container for factors related to Rate Types.

Name	Constraint	Description
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Factor/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	This will contain measurement unit (e.g. LBS for weight, USD for dollar amount). Rate should have a code type that pertains to Unit Of Measurement Code. For example: if rate type code has code type of "DISCOUNT" then Unit Of Measurement Code should be "USD" to represent the measurement unit of discounted dollar amount.
<a href="#">/FreightRateResponse/AlternateRatesResponse/Rate/Factor/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	Description of unit of measurement code for rate factors
<a href="#">/FreightRateResponse/AlternateRatesResponse/FreightDensityRate</a>		
FreightDensityRate	Required: cond Type: Container Max Allowed: 1 Length: N/A	FreightDensityRate container.
<a href="#">/FreightRateResponse/AlternateRatesResponse/FreightDensityRate/Density</a>		
Density	Required: Yes Type: String Max Allowed: 1 Length: N/A	Density is returned if the Shipper is eligible for Density based rate.
<a href="#">/FreightRateResponse/AlternateRatesResponse/FreightDensityRate/TotalCubicFeet</a>		
TotalCubicFeet	Required: Yes Type: String Max Allowed: 1 Length: N/A	TotalCubic feet is returned if the Shipper is eligible for Density based rate.
<a href="#">/FreightRateResponse/AlternateRatesResponse/BillableShipmentWeight</a>		
BillableShipmentWeight	Required: No Type: Container Max Allowed: 1 Length: N/A	BillableShipmentWeight Container.
<a href="#">/FreightRateResponse/AlternateRatesResponse/BillableShipmentWeight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 16	The value for the billable weight associated with the shipment.
<a href="#">/FreightRateResponse/AlternateRatesResponse/BillableShipmentWeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement Container.
<a href="#">/FreightRateResponse/AlternateRatesResponse/BillableShipmentWeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with the unit of measure for the billable weight of a shipment.
<a href="#">/FreightRateResponse/AlternateRatesResponse/BillableShipmentWeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 35	The description for the billable weight associated with the shipment.
<a href="#">/FreightRateResponse/AlternateRatesResponse/TimeInTransit</a>		
TimeInTransit	Required: No Type: Container	Time In transit information.

Name	Constraint	Description
	Max Allowed: 1 Length: N/A	
<a href="#">/FreightRateResponse/AlternateRatesResponse/TimeInTransit/DaysInTransit</a>		
DaysInTransit	Required: Yes* Type: String Max Allowed: 1 Length: N/A	Number of days in transit.

## TimeInTransit

Name	Constraint	Description
<a href="#">/FreightRateResponse/TimeInTransit</a>		
TimeInTransit	Required: No Type: Container Max Allowed: 1 Length: N/A	Time In transit information.
<a href="#">/FreightRateResponse/TimeInTransit/DaysInTransit</a>		
DaysInTransit	Required: Yes* Type: String Max Allowed: 1 Length: N/A	Number of days in transit.

## HandlingUnits

Name	Constraint	Description
<a href="#">/FreightRateResponse/HandlingUnits</a>		
HandlingUnits	Required: No Type: Container Max Allowed: 1 Length: N/A	Handling Unit Container for Density based rating. Returned if Shipper is eligible for density based pricing.
<a href="#">/FreightRateResponse/HandlingUnits/Quantity</a>		
Quantity	Required: Yes Type: String Max Allowed: 1 Length: 8	Handling Unit Quantity for Density based rating.
<a href="#">/FreightRateResponse/HandlingUnits/Type</a>		
Type	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Handling Unit Type for Density based rating.
<a href="#">/FreightRateResponse/HandlingUnits/Type/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	The code associated with Handling Unit Type. Refer to Handling Codes in the Appendix for valid values.
<a href="#">/FreightRateResponse/HandlingUnits/Type/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1...35	A description of the code for the Handling Unit type.
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions</a>		
Dimensions	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Dimension of the HandlingUnit container for density based pricing.
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions/UnitOfMeasurement</a>		

Name	Constraint	Description
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	UnitOfMeasurement container.
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	Code for UnitOfMeasurement for the line item dimension. Valid value: IN = Inches
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String Max Allowed: 1 Length: 1...35	Description for UnitOfMeasurement for the line item dimension.
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions/Length</a>		
Length	Required: Yes Type: String Max Allowed: 1 Length: 1...19	The length of the line item used to determine dimensional weight. Valid characters: 0-9 and "." (Decimal point). Maximum of 2 digits after the decimal. Maximum field length: 16 characters. The decimal ".", does not count as a character. Examples: #####.## #####.# #####
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions/Width</a>		
Width	Required: Yes Type: String Max Allowed: 1 Length: 1...19	The width of the line item used to determine dimensional weight. Format: See Length Description.
<a href="#">/FreightRateResponse/HandlingUnits/Dimensions/Height</a>		
Height	Required: Yes Type: String Max Allowed: 1 Length: 1...19	The height of the line item used to determine dimensional weight. Format: See Length Description.
<a href="#">/FreightRateResponse/HandlingUnits/AdjustedHeight</a>		
AdjustedHeight	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Adjusted Height Container.
<a href="#">/FreightRateResponse/HandlingUnits/AdjustedHeight/Value</a>		
Value	Required: Yes Type: String Max Allowed: 1 Length: 1...19	Adjusted Height value for the handling unit.
<a href="#">/FreightRateResponse/HandlingUnits/AdjustedHeight/UnitOfMeasurement</a>		
UnitOfMeasurement	Required: Yes Type: Container Max Allowed: 1 Length: N/A	Unit of Measurement container for the Adjusted height.
<a href="#">/FreightRateResponse/HandlingUnits/AdjustedHeight/UnitOfMeasurement/Code</a>		
Code	Required: Yes Type: String Max Allowed: 1 Length: 3	Code associated with the Unit of Measurement for the Adjusted weight.
<a href="#">/FreightRateResponse/HandlingUnits/AdjustedHeight/UnitOfMeasurement/Description</a>		
Description	Required: No Type: String	Description for the code associated with the Unit of Measurement for the Adjusted weight.

Name	Constraint	Description
	Max Allowed: 1 Length: 1...35	

## QuoteNumber

Name	Constraint	Description
<a href="#">/FreightRateResponse/QuoteNumber</a>		
QuoteNumber	Required: No Type: String Max Allowed: 1 Length: 9	The Quote Number returned in the response associated to the specific LTL Freight Rate returned in the response.

## Chapter 5: Rating Ground Freight Web Service Examples

### FreightRateRequest Example

```

<env:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:upss="http://www.ups.com/XMLSchema/XOLTWS/UPSS/v1.0"
xmlns:wsf="http://www.ups.com/schema/wsf"
xmlns:common="http://www.ups.com/XMLSchema/XOLTWS/Common/v1.0">
  <env:Header>
    <upss:UPSSecurity>
      <upss:UsernameToken>
        <upss:Username>Username</upss:Username>
        <upss>Password>Password</upss>Password>
      </upss:UsernameToken>
      <upss:ServiceAccessToken>
        <upss:AccessLicenseNumber>AccessLicenseNumber</upss:AccessLicenseNumber>
      </upss:ServiceAccessToken>
    </upss:UPSSecurity>
  </env:Header>
  <env:Body>
    <XOLTWS:FreightRateRequest
xmlns:XOLTWS="http://www.ups.com/XMLSchema/XOLTWS/FreightRate/v1.0">
      <common:Request>
        <common:RequestOption>1</common:RequestOption>
        <common:TransactionReference>
          <common:TransactionIdentifier>TransactionIdentifier</common:TransactionIdentifier>
        </common:TransactionReference>
      </common:Request>
      <XOLTWS:ShipFrom>
        <XOLTWS:Name>ShipFrom Name</XOLTWS:Name>
        <XOLTWS:Address>
          <XOLTWS:AddressLine>AddressLine</XOLTWS:AddressLine>
          <XOLTWS:City>City</XOLTWS:City>
          <XOLTWS:StateProvinceCode>StateProvinceCode</XOLTWS:StateProvinceCode>
          <XOLTWS:PostalCode>PostalCode</XOLTWS:PostalCode>
          <XOLTWS:CountryCode>CountryCode</XOLTWS:CountryCode>
        </XOLTWS:Address>
        <XOLTWS:AttentionName>Contact</XOLTWS:AttentionName>
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          <XOLTWS:Extension>Extension number</XOLTWS:Extension>
        </XOLTWS:Phone>
        <XOLTWS:EMailAddress>EMailAddress</XOLTWS:EMailAddress>
      </XOLTWS:ShipFrom>
      <XOLTWS:ShipperNumber>ShipperNumber</XOLTWS:ShipperNumber>
      <XOLTWS:ShipTo>
        <XOLTWS:Name>ShipTo name</XOLTWS:Name>
        <XOLTWS:Address>
          <XOLTWS:AddressLine>AddressLine</XOLTWS:AddressLine>

```

```

<XOLTWS:City>City</XOLTWS:City>
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<XOLTWS:PostalCode>PostalCode</XOLTWS:PostalCode>
<XOLTWS:CountryCode>CountryCode</XOLTWS:CountryCode>
</XOLTWS:Address>
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  <XOLTWS:Number>Phone number</XOLTWS:Number>
  <XOLTWS:Extension>Extension number</XOLTWS:Extension>
</XOLTWS:Phone>
</XOLTWS:ShipTo>
<XOLTWS:PaymentInformation>
  <XOLTWS:Payer>
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    <XOLTWS:Address>
      <XOLTWS:AddressLine>AddressLine</XOLTWS:AddressLine>
      <XOLTWS:City>City</XOLTWS:City>
      <XOLTWS:StateProvinceCode>StateProvinceCode</XOLTWS:StateProvinceCode>
      <XOLTWS:PostalCode>PostalCode</XOLTWS:PostalCode>
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    </XOLTWS:Address>
    <XOLTWS:ShipperNumber>Payer's shipper Number</XOLTWS:ShipperNumber>
    <XOLTWS:AccountType>AccountType</XOLTWS:AccountType>
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    <XOLTWS:Phone>
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      <XOLTWS:Extension>Extension number</XOLTWS:Extension>
    </XOLTWS:Phone>
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</XOLTWS:Commodity>

```



```

</XOLTWS:Weight>
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</XOLTWS:PickupRequest>
<XOLTWS:TimeInTransitIndicator/>
<XOLTWS:GFPOptions>
  <XOLTWS:OnCallInformation>
    <XOLTWS:OnCallPickupIndicator/>
  </XOLTWS:OnCallInformation>
</XOLTWS:GFPOptions>
</XOLTWS:FreightRateRequest>
</env:Body>
</env:Envelope>

```

## FreightRateResponse Example

```

<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <freightRate:FreightRateResponse
xmlns:freightRate="http://www.ups.com/XMLSchema/XOLTWS/FreightRate/v1.0">
      <common:Response
xmlns:common="http://www.ups.com/XMLSchema/XOLTWS/Common/v1.0">
        <common:ResponseStatus>
          <common:Code>1</common:Code>
          <common:Description>Success</common:Description>
        </common:ResponseStatus>
        <common:Alert>
          <common:Code>9369055</common:Code>

```

```

    <common:Description>User is not eligible for contract rates.</common:Description>
  </common:Alert>
  <common:TransactionReference>
    <common:TransactionIdentifier>TransactionIdentifier</common:TransactionIdentifier>
  </common:TransactionReference>
</common:Response>
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    <freightRate:Code>DSCNT</freightRate:Code>
    <freightRate:Description>DSCNT</freightRate:Description>
  </freightRate:Type>
  <freightRate:Factor>
    <freightRate:Value>Value</freightRate:Value>
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```

```

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```

```

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  <freightRate:GuaranteedIndicator/>
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  </freightRate:Type>

```

```

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```

```

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  <freightRate:FreightDensityRate>
    <freightRate:Density>Density</freightRate:Density>
    <freightRate:TotalCubicFeet>TotalCubicFeet</freightRate:TotalCubicFeet>
  </freightRate:FreightDensityRate>
  <freightRate:BillableShipmentWeight>
    <freightRate:Value>BillableShipmentWeight</freightRate:Value>
    <freightRate:UnitOfMeasurement>
      <freightRate:Code>UnitOfMeasurement code</freightRate:Code>
    </freightRate:UnitOfMeasurement>
  </freightRate:BillableShipmentWeight>

```

```
<freightRate:TimeInTransit>
  <freightRate:DaysInTransit>DaysInTransit</freightRate:DaysInTransit>
</freightRate:TimeInTransit>
</freightRate:AlternateRatesResponse>
<freightRate:TimeInTransit>
  <freightRate:DaysInTransit>DaysInTransit</freightRate:DaysInTransit>
</freightRate:TimeInTransit>
</freightRate:FreightRateResponse>
</soapenv:Body>
</soapenv:Envelope>
```

## Chapter 6: Rating Ground Freight API FAQs

Category	Question	Answer
3rd Party/ Freight Collect Rating	What is the difference in the Rating Package API and the Rating LTL Freight API when viewing Negotiated rates?	In order for you to see your negotiated rates for LTL Freight, the postal code must match the payer and the set-up account postal.
Fuel Surcharge	Is the Fuel Surcharge listed as a separate line item in the response for the Rating API for LTL?	Yes. The fuel surcharge is listed as a separate line item within the response.
LTL Shipping	What are the supported LTL Freight countries and territories?	LTL Freight country or territory origins include US, CA & MX. The US territory means the contiguous 48 states of the US and Washington DC. While we service Hawaii, Alaska, Guam, Puerto Rico and the US Virgin Islands, those rates can only be obtained by calling UPS Freight Customer Service at (800) 333-7400.
Maximum Shipment Weight	What is the maximum shipment weight for LTL Freight?	The maximum LTL weight is 19,999 lbs. Anything 20,000 lbs. or over is considered a Truckload (TL) movement. Our public rate engine will not return a rate on shipments weighing equal to or more than 19,999lbs. Instead, the user gets the following message.  Rate a Shipment is not available for this shipment.  Please call Customer Service for assistance with this rate.
Rating	Is Pallet Rating supported?	Pallet rating is not supported for online rating.
Rating	Does the API rate offshore shipments?	No. Please call Customer Service for offshore rating.
Rates	Are there any rate structures that are not allowable for LTL Freight?	No.
Rates	I have CZAR rates, are they available for use with the LTL Freight Rating or Shipping APIs?	Yes. Czar and Czar Lite rate structures are permitted for use with the Rating or Shipping API for LTL Freight UPS Freight approval required.
Rates	Is 3rd Party or Freight Collect available through the Rating or Shipping APIs?	Yes. The LTL Freight Rating and Shipping APIs are only available for the customer that is paying the invoice. However, the Shipper, Consignee, or the 3rd Party could create a Bill of Lading.
Rates	What rates can be returned using the rating API?	Published rates based on the UPS560 tariff or a contract rate negotiated with UPS Freight.
Rates	Can I choose the rate I want returned in the rate request?	No. The API supports a single rate type based on your setup with UPS Freight. Examples:  1 – You do not have a negotiated rate contract with UPS Freight; Published rates will be returned.  2 – You have a negotiated rate contract with UPS Freight; your negotiated rate will be returned.



Category	Question	Answer
Time in Transit	Is Time in Transit available through the LTL Freight Rating or Shipping APIs?	Yes, Time in Transit (Days in Transit) is available in the Ground Freight Ship and Ground Freight Rate Web Service.  The API's return the number of days from the origin to the destination. The days do not take into account Weekends or Holidays.
Maximum Linear Feet	What is the maximum Linear feet allowed for LTL Ground Freight?	The maximum dimensional length of the extreme length articles is 26 feet. The max allowed may change in the future based on Ground Freight business rules.  Please contact UPS Freight Customer Service at 800-333-7400 for assistance
GF (LTL) Rating	How can I add locations to a contract? Do I need to work through my UPS Freight Account Manager?	Yes. Please contact our Freight sales representative to ensure accounts and locations are added to the UPS Freight LTL negotiated rates. For more information, visit UPS Freight.
GF (LTL) Rating	Can I use any combination of origin/destination postal codes to receive ABR with Rating - Ground Freight API?	Rating API - Ground Freight does not behave like the Rating API - Package. In order to see negotiated rates for freight, the origin postal code must match the postal code on file with UPS Freight. When the correct origin postal code is not used the response will not include the correct rates.
General	Is phone support provided for the UPS Developer Kit - Developer APIs? If so, what is the number and what are the hours of operation?	Phone support is provided for very basic API questions. Questions that cannot be answered verbally will be directed to the email support form at ups.com. Please go to the Developer Resource Center on ups.com for more information.
General	How do I get technical support for the APIs at ups.com?	Go to ups.com. Under the Help Center, select Technology Support. Under Tools and Resources click on Developer Resource Center. If your questions are not answered on this page, then click on email UPS.

# Appendices

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## Error Codes (WS)

When the UPS system is unable to respond to a request, be it from a malformed request, an illegal or invalid value, or other issues, the API generates an error response. For examples and additional information on error responses, refer to *Chapter 3: Error Responses*, in the *Introduction to the UPS Developer Kit* guide.

- Successful responses may or may not include warnings.
  - Without warnings - Indicates the request has been processed as anticipated.
  - With warnings - Indicates the request has been processed with potentially unanticipated results. The warning contains information in the response that should be passed to the end user.
- The severity of an error may be transient or hard.
  - Transient error - Indicates an error that is temporary in nature. Such errors may be caused by response timeouts due to high server loads or scheduled maintenance in progress. The request may be issued successfully at a later time.
  - Hard error - Indicates the request has a problem that the system is not able to resolve. These errors are critical and prevent requests from processing.



Do not resubmit requests with Hard Errors until the problems causing the error have been resolved.

## Common Error Codes

The following error codes can apply to all Webservice and other APIs.

Code	Severity	Description
10001	Hard	The XML document is not well formed.
10002	Hard	The XML document is well formed but the document is not valid.
10003	Hard	The XML document is either empty or null.
10006	Hard	Although the document is well formed and valid, the element content contains values which do not conform to the rules and constraints contained in this specification.
10013	Hard	The message is too large to be processed by the Application.
20001	Transient	General process failure.
20002	Hard	The specified service name, {0}, and version number, {1}, combination is invalid.
20003	Hard	Please check the server environment for the proper J2EE ws apis.
20006	Hard	Invalid request action.
20007	Hard	Missing Required field, {0}.
20008	Hard	The field, {0}, contains invalid data, {1}.
20012	Hard	The Client Information exceeds its Maximum Limit of {0}.
250000	Hard	No XML declaration in the XML document.
250001	Hard	Invalid Access License for the tool. Please re-license.
250002	Hard	Invalid UserId/Password.
250003	Hard	Invalid Access License number.

Code	Severity	Description
250004	Hard	Incorrect UserId or Password.
250005	Hard	No Access and Authentication Credentials provided.
250006	Hard	The maximum number of user access attempts was exceeded.
250007	Hard	The UserId is currently locked out; please try again in 30 minutes.
250009	Hard	License Number not found in the UPS database.
250019	Hard	Invalid Field value.
250050	Transient	License system not available.

## Rating Ground Freight Error Codes

Error Code	Severity	Description
9360079	Hard	UPS Freight® LTL Guaranteed A.M. service is not valid for the destination postal code you entered.
9360080	Hard	Shipment is not eligible for LTL guaranteed service.
9360081	Hard	Shipment is not eligible for UPS Freight® LTL Guaranteed A.M. service.
9360082	Hard	LTL guaranteed Service not available.
9360083	Hard	Invalid destination postal code, please verify and resubmit.
9360541	Hard	Missing or Invalid Pickup Date.
9360733	Hard	Invalid Tariff Point Code
9368780	Hard	Invalid ship date. Ship date should not be in the past.
9368781	Hard	Invalid numbers of handling units. Should be between 1 and 9999.
9368782	Hard	Invalid request type. Valid values are L, F, B and P.
9368783	Hard	Invalid request party. Valid values are S, C and T.
9368784	Hard	At least one shipment is required.
9368785	Hard	Please contact UPS Freight Customer Service for Rates at 800-333-7400.
9368786	Hard	Please contact UPS Freight Customer Service for Rates at 800-333-7400.
9368787	Hard	Invalid Ship From Address.
9368788	Hard	Shipment weight must be less than 10,000 lbs
9368789	Hard	Please contact UPS Freight Customer Service for Rates at 800-333-7400.
9368790	Hard	Weight unit of measure is invalid.
9368791	Hard	Please contact UPS Freight Customer Service for Rates at 800-333-7400
9369080	Warning	Time in Transit (for FRS/GFP) information not available at this time.
9369081	Warning	Time in Transit (for FRS/ GFP) request details are invalid.
9369082	Warning	Pickup date to calculate Time in Transit (for FRS/ GFP) has been changed.
9369083	Warning	Negotiated rates (for FRS/ GFP) are not available. Published rates are returned.
9369085	Warning	FRS/ GFP Accessorial rate details are unavailable.
9369087	Warning	FRS/ GFP Accessorial rate request is invalid. No rates returned.
9380000	Transient	Freight Rate Web Service is Unavailable.
9380001	Hard	Missing Ship From Phone
9380041	Hard	Missing or Invalid Shipper Number
9380061	Hard	Missing or Invalid Account Type Code
9380101	Hard	Missing Payment Information
9380151	Hard	Missing Shipment Billing Option
9380201	Hard	Missing Service

Error Code	Severity	Description
9380216	Hard	Missing or Invalid Handling Unit One Quantity
9380217	Hard	Missing Handling Unit One
9380231	Hard	Missing or Invalid Handling Unit Two Quantity
9380232	Hard	Missing Handling Unit Two
9380240	Hard	Missing Shipment Total Weight Value
9380241	Hard	Missing the Unit of Measurement for Shipment Total Weight
9380242	Hard	Missing or Invalid Unit of Measurement Code for Shipment Total Weight
9380246	Hard	Missing Commodity {0} Weight
9380247	Hard	Missing Commodity {0} Weights Unit Of Measure
9380248	Hard	Missing Commodity {0} Dimension's Unit of Measurement
9380249	Hard	Missing Packaging Type of Commodity {0}
9380250	Hard	Missing Packaging Type of Commodity {0}
9380251	Hard	NMFC Commodity Prime Code is required when NMFC Commodity Sub Code is supplied for Commodity {0}
9380252	Hard	NMFCCommodity container and NMFCCommodityCode are mutually exclusive for Commodity {0}
9380253	Hard	Missing or Invalid Commodity {0} Adjusted Weight Value
9380254	Hard	Missing the Unit of Measurement for Commodity {0} Adjusted Weight
9380255	Hard	Missing or Invalid Unit of Measurement Code for Commodity {0} Adjusted Weight
9380262	Hard	Missing or Invalid Handling Unit Weight Value
9380263	Hard	Missing the Unit of Measurement for Handling Unit Weight
9380264	Hard	Missing or Invalid Unit of Measurement Code for Handling Unit Weight
9380301	Hard	Missing COD Value
9380302	Hard	Missing the COD Payment Method
9380303	Hard	Missing the COD Billing Option
9380304	Hard	Missing Remit To Address
9380305	Hard	Missing Remit To
9380316	Hard	Missing Overseas Leg Dimensions
9380317	Hard	Missing Unit of Measurement for Overseas Leg Dimensions
9380318	Hard	Missing or Invalid Overseas Leg Value
9380319	Hard	Missing or Invalid Overseas Leg Volume
9380320	Hard	Missing or Invalid Overseas Leg Height
9380321	Hard	Missing or Invalid Overseas Leg Length
9380322	Hard	Missing or Invalid Overseas Leg Width
9380323	Hard	Missing or Invalid Monetary Value for Overseas Leg Price per Cubic Foot

Error Code	Severity	Description
9380324	Hard	Missing or Invalid Monetary Value for Overseas Leg Price per CWT
9380325	Hard	Invalid combination of CWT and Cube for the Overseas Leg service option
9380336	Hard	Invalid combination of Percentage and Value for Handling Charge service option
9380337	Hard	Missing Dangerous Goods Name
9380338	Hard	Missing Dangerous Goods Phone
9380339	Hard	Missing or Invalid Dangerous Goods Phone Number
9380340	Hard	Missing or Invalid Sorting and Segregating Quantity
9380341	Hard	Missing or Invalid Declared Value Monetary Value for Shipment Service Option
9380342	Hard	Missing or Invalid Declared Value Currency Code for Shipment Service Option
9380343	Hard	Missing or Invalid Customs Value Monetary Value for Shipment Service Option
9380344	Hard	Missing or Invalid Customs Value Currency Code for Shipment Service Option
9380345	Hard	Missing or Invalid Handling Charge Percentage
9380361	Warning	On-Call Pickup fee is currently unavailable.
9380362	Warning	On-Call Pickup Saturday Stop Charge is currently unavailable.
9380363	Warning	On-Call Pickup Saturday Stop Charge is not added as pickup area is not weekend service territory.
9380371	Hard	Missing or Invalid Payer Account Number supplied for FRS pricing
9380372	Hard	Payer Account Number not FRS enabled
9380373	Hard	Invalid Alternate Rate Option
9381000	Hard	Invalid Freight Rate Request Document
9389001	Warning	Payer Account Number required for FRS pricing
9389002	Warning	Payer Account Number not FRS enabled
9360654	Hard	Missing or Invalid Handling Unit {0} Quantity.
9360655	Hard	Missing or Invalid Handling Unit {0} Type Code.
9360656	Hard	Missing or Invalid Handling Unit {0} Dimension Length.
9360657	Hard	Missing or Invalid Handling Unit {0} Dimension Width.
9360658	Hard	Missing or Invalid Handling Unit {0} Dimension Height.
9360659	Hard	Missing or Invalid Unit of Measurement Code for Handling Unit {0}.
9360660	Hard	Shipper has density pricing. Handling unit dimension required.
9360661	Hard	Density rate is not available but NMFC and class number are missing for class based rating.
9360662	Hard	Missing Handling Units Type {0} Container.
9360663	Hard	Missing Handling Units Dimension {0} Container.
9360664	Hard	Missing Handling Units UOM {0} Container.
9380346	Hard	Missing Adjusted Height Container.

Error Code	Severity	Description
9380347	Hard	Missing or Invalid Adjusted Height value.
9380348	Hard	Missing Adjusted Height UOM Container.
9380349	Hard	Missing or Invalid Adjusted Height UOM Code.
9380350	Hard	Density rate is not available but NMFC and class number are missing for class based rating.



## Freight Density Rating Error Codes

Error Code	Severity	Description
9360654	Hard	Missing or Invalid Handling Unit {0} Quantity.
9360655	Hard	Missing or Invalid Handling Unit {0} Type Code.
9360656	Hard	Missing or Invalid Handling Unit {0} Dimension Length.
9360657	Hard	Missing or Invalid Handling Unit {0} Dimension Width.
9360658	Hard	Missing or Invalid Handling Unit {0} Dimension Height.
9360659	Hard	Missing or Invalid Unit of Measurement Code for Handling Unit {0}.
9360660	Hard	Shipper has density pricing. Handling unit dimension required.
9360661	Hard	Density rate is not available but NMFC and class number are missing for class based rating.
9360662	Hard	Missing Handling Units Type {0} Container.
9360663	Hard	Missing Handling Units Dimension {0} Container.
9360664	Hard	Missing Handling Units UOM {0} Container.
9380346	Hard	Missing Adjusted Height Container.
9380347	Hard	Missing or Invalid Adjusted Height value.
9380348	Hard	Missing Adjusted Height UOM Container.
9380349	Hard	Missing or Invalid Adjusted Height UOM Code.
9380350	Hard	Density rate is not available but NMFC and class number are missing for class based rating.

## FRS/Ground Freight Pricing (GFP) Charge Codes

Code	Charge Description
FRS_CASH_ON_DELIVERY	Package charge for Cash On Delivery. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_DECLARED_VALUE	Package charge for Declared Value. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_ADDITIONAL_HANDLING	Package charge for Additional Handling. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_ADDITIONAL_HANDLING_SURCHARGE	Package charge for peak season Additional Handling. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_LARGE_PACKAGE_SEASONAL_SURCHARGE	Package charge for peak season Large Package. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge. NOTE: Charge will be returned based on package dimension.
FRS_LARGE_PACKAGE_SURCHARGE	Package charge for Large Package. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_DELIVERY_CONFIRMATION	Package charge for Delivery Confirmation. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_DELIVERY_CONFIRMATION_SIG_REQ	Package charge for Delivery Confirmation Signature Required. Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_DELIVERY_CONFIRMATION_ADULT_SIG_REQ	Package charge for Delivery Confirmation Adult Signature Required. Represents the prorated amount from taking the charge/package and rolling it up into one freight level charge.
FRS_RESIDENTIAL_ADDRESS	Surcharge for a delivery to residential address
FRS_PEAK_SEASON_SURCHARGE	The total peak season surcharge for the movement
FRS_SECURITY_SURCHARGE	The Security surcharge
FRS_SHIPMENT_LEVEL_GROSS	The Shipment Level Gross amount: Maps to LTL 'FreightChargeType.LANDING_FEE'
FRS_SHIPMENT_LEVEL_DISCOUNT_AMOUNT	The Shipment Level Discount Amount Maps to LTL 'FreightChargeType.DSCNT'
FRS_SHIPMENT_LEVEL_DISCOUNT_RATE	Percent discount value returned from UPGF. Maps to LTL 'FreightChargeType.DSCNT_RATE'


Code	Charge Description
FRS_SHIPMENT_LEVEL_NET_CHARGE	The Shipment Level Net Transportation Charge: Maps to LTL 'FreightChargeType.AFTR_DSCNT'
FRS_SHIPMENT_LEVEL_FUEL_SURCHARGE	Package charge for Fuel Surcharge. (move this tag to next page so description is not broken up  Represents the prorated (total) amount from taking the charge/Package and rolling it up into one freight-level charge.
FRS_SHIPMENT_LEVEL_DEFICIT_RATE	Maps to FreightChargeType.DEFICIT_RATE when returned in the vector of rates returned from UPGF
FRS_SHIPMENT_LEVEL_DEFICIT_AMNT	Maps to FreightChargeType.DEFICITAMOUNT when returned in the vector of rates returned from UPGF
FRS_SHIPMENT_LEVEL_DEFICIT_WEIGHT	Maps to FreightChargeType.DEFICIT_WEIGHT when returned in the vector of rates returned from UPGF
FRS_SHIPMENT_LEVEL_PEAK_SEASONAL_SURCHARGE	The shipment level peak season surcharge  NOTE: Refer to Accessorial / Surcharge Codes for the subTypeCode
FRS_TOTAL_ACCS_SUR_CHARGE_COMBO	The Package Total accessorials sum for entire shipment.  NOTE: THIS EXCLUDES FUEL SURCHARGE
FRS_TOTAL_PUBLISHED_CHARGE	The Package 'PUBLISHED' Total Charge for the entire shipment.
FRS_TOTAL_INCENTED_CHARGE	When an account has negotiated rates is ABR and the ABR request is successful the application NRF?RAVE will return the 'INCENTED' Total Charge for the shipment
FRS_ONCALL_PICKUP_CHARGE	The Package On-Call Pickup charges ONLY returned from NRF.
FRS_ONCALL_PICKUP_SAT_SC	The Package On-Call Pickup with Saturday Stop Charges from NRF.

## Country or Territory Codes

### Rating and Shipping Ground Freight LTL API Supported Countries or Territories

UPS country or territory code abbreviations generally follow the recommendations of the International Standards Organization (ISO), which publishes a list of country or territory abbreviations in ISO Standard 3166.

The following table lists the country or territory codes defined by ISO at the time of this publication. The latest information is available from the ISO web site: <http://www.iso.org/>.

 **NOTE:** Not all UPS services are available in every country or territory. Refer to the [UPS Rate and Service Guide](#) at UPS.com for more information on UPS services.

### LTL Freight Country or Territory Origins

LTL Freight country or territory origins include US, CA & MX. The US territory means the contiguous 48 states of the US and Washington DC. While we service Hawaii, Alaska, Guam, Puerto Rico and the US Virgin Islands, those rates can only be obtained by calling UPS Freight Customer Service at (800) 333-7400.

Destination Country or Territory Name	Country or Territory Code	Supported Forward Origin
Canada	CA	X
Mexico	MX	X
Puerto Rico	PR	X
United States	US	X

# Ground Freight Classes

Freight Class
50
55
60
65
70
77.5
85
92.5
100
110
125
150
175
200
250
300
400
500

## Handling Unit Codes

Description	Code	Valid for Handling Unit One	Valid for Handling Unit Two
SKID	SKD	X	
CARBOY	CBY	X	
PALLET	PLT	X	
TOTES	TOT	X	
LOOSE	LOO		X
OTHER	OTH		X

## Packaging Type Codes

Ground Freight Packaging Types for Rating, Shipping, and Packaging

Code	Description
BAG	Bag
BAL	Bale
BAR	Barrel
BDL	Bundle
BIN	Bin
BOX	Box
BSK	Basket
BUN	Bunch
CAB	Cabinet
CAN	Can
CAR	Carrier
CAS	Case
CBY	Carboy
CON	Container
CRT	Crate
CSK	Cask
CTN	Carton
CYL	Cylinder
DRM	Drum
LOO	Loose
OTH	Other
PAL	Pail
PCS	Pieces
PKG	Package
PLN	Pipe Line
PLT	Pallet
RCK	Rack
REL	Reel
ROL	Roll
SKD	Skid
SPL	Spool
TBE	Tube

Code	Description
TNK	Tank
UNT	Unit
VPK	Van Pack
WRP	Wrapped



## Charge Type Codes

Code	Charge Description
2	Fuel Surcharge
ADV_NOTF	Arrival Notification
AFTR_DSCNT	Amount after Discount
CA_BORDER	Border Processing Fee
CA_CSTM_MNFST	Custom Manifest Fee
COD	Collect on Delivery fee
CON_ST_DEL	Construction Site Delivery
DEFICITRATE	Deficit Rate
DEFICITWGHT	Deficit Weight
DFCT_AMT	Deficit Charge
DSCNT	Discounted Amount
DSCNT_RATE	Discount Rate (as a percentage)
EXC_LEN	Extreme Length
EXLI	Excess Declared Value Charges
FREEZE_PROT	Freezable Protection
GUAR_SERVICE	Guaranteed Service Charges
HAZMAT	Hazardous Materials Charge
HICST	High Cost Service Area Surcharge
HOL_WE_PU_DEL	Holiday/Weekend Pickup or Delivery
INSD_PU_DEL	Inside Pickup/Delivery
L_UPGF_016	Custom Charge
LIFTGATE	Liftgate Fee
LIM_ACC_PU_DEL	Limited Access Pickup/Delivery
LND_GROSS	Gross Charges
MINCHARGE	Minimum Charge Applies
OFUELSURCHG	Ocean Fuel Surcharge
RESI_PU_DEL	Residential Pickup/Delivery
RMTLOC	Remote Location Fee
SORTSEG	Sorting and Segregation
TOTI	Total Island Charges
TOTO	Total Ocean Charges

## Service Codes

Code	Charge
308	UPS Freight LTL
309	UPS Freight LTL - Guaranteed
334	UPS Freight LTL - Guaranteed A.M.
349	UPS Standard LTL

## Accessorial / Surcharge Codes

Code	Charge
PSR	Peak Surcharge – Residential
PSC	Peak Surcharge – Commercial
PHR	Peak Surcharge – Residential Used for very specific multi-piece rated scenarios, e.g. CWT, GFP
PHC	Peak Surcharge – Commercial Used for very specific multi-piece rated scenarios, e.g. CWT, GFP