

Roadrunner

Rate Quote with Guaranteed Service Web Service Developer's Guide

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Rate Quote Web Service Interface

Rate Quote Web Service Overview

The rate quote web service assists customers in receiving a detailed quote of charges for shipping freight through Roadrunner Transportation Systems. Customers can rate up to 10 different classes at one time and also add various additional service options.

Authentication information is populated in the SOAP header. The header along with the quote request are sent over an SSL connection. The user receives a quote response element back. Errors are received back as SOAP faults

The web services can be accessed at

<https://webservices.rrts.com/rating/ratequote.asmx>

Login information should be the same username/password used to login to the RRTS website. If you do not currently have this information, you can register at

<https://freight.rrts.com/Pages/Register.aspx>

There are four service operations available. **RateQuoteV2** and **RateQuoteByAccountV2** have the same response schema and **RateQuoteWithGuarV2** and **RateQuoteByAccountWithGuarV2** have the same response schema. The differences in the schema are with the Guaranteed element. Description is in the Special Consideration section and in the Response Schema section.

- **RateQuoteV2** – Determines rating based on main account assigned to the authenticated user.
- **RateQuoteByAccountV2** – Allows authenticated user to specify a sub-account number to use for rating. If the account number is not related to the user, rating will fail.
- **RateQuoteWithGuarV2** – Always provides both guaranteed and standard service rates.
- **RateQuoteByAccountWithGuarV2** – Always provides both guaranteed and standard service rates. Allows authenticated user to specify a sub-account number to use for rating. If the account number is not related to the user, rating will fail.

Special Considerations

RateQuoteV2 and RateQuoteByAccountV2 Methods

** Roadrunner only offers Guaranteed Service in certain origin/destination pairs (lane). If a user requests a Guaranteed Service quote in a lane Roadrunner does not offer guaranteed service in, a QuoteDetail element will be returned where Code = PP and Charge = -1. The returned quote is valid for standard service shipments only. **

RateQuoteWithGuarV2 and RateQuoteByAccountWithGuarV2 Methods

** Roadrunner only offers Guaranteed Service in certain origin/destination pairs (lane). The Guaranteed element will always be returned. If the value = 0 guaranteed service is not available in the lane. A ServiceOption element with code PP is not required for the guaranteed rate to be returned.

For cases where guaranteed service is offered the NetCharge value is inclusive of the guaranteed service charge. To calculate standard service charges subtract the Guaranteed value from the NetCharge. **

Request Schema

The following tables contain the complex types found in the quote Request schema. Each table consists of the following:

1. Element – The element name
2. Description – Information describing the element
3. Rules – Element requirements and limitations

Element	Request			
Description	The root element for a request			
Rules	This element is required to request a quote			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
OriginZip	String (6)	Yes	1	Contains 5 digit US Zip code or 6 character Canadian postal code
DestinationZip	String (6)	Yes	1	Contains 5 digit US Zip code or 6 character Canadian postal code
ShipmentDetails		Yes	1..10	Container of shipment details. Can have up to 10 different shipment details in one transaction

OriginType	String (1)	Yes	1	Contains “O” for shipper, “I” for consignee, and “B” for third party
PaymentType	String (1)			Contains “P” for Prepaid or “C” for Collect.
PalletCount	String	No	0...1	If customer has pallet rating, must supply 0 or greater pallets. Can leave blank if no pallet rating.
LinearFeet	String	No	0...1	If customer has linear ft rating, must supply 0 or greater linear ft. Can leave blank if no linear ft. rating.
CubicFeet	String	No	0...1	If customer has customer has cubic ft. rating, must supply 0 or lgreater cubic ft. Can leave blank if no cubic ft. rating. Note: This field is required if rating to Hawaii.
Pieces	Integer	No	0...1	Must be filled out if using Sort/Segregate accessorial code.
ServiceDeliveryOptions		No	1...15	Container for additional service accessories to be added. See appendix B for list of services
COD		No		COD is no longer offered
Discount	Double	No	0...1	Allows a discount percentage to be entered (internal use only)
ListedConsigneeCity	String (1)	No	0...1	Obsolete
Pallet Position	String	No	0...1	Only used by customers that have rating by pallet position, othwise blank.
ShipDate	Date	Yes	0...1	Date format should be YYYY-MM-DD
Account	String	Yes	0...1	Used only for RateQuoteByAccountV2 and RateQuoteByAccountWithGuar V2 service operations – Four to Seven digit rating account number.

InsuredAmount	Integer	No	0...1	Optional insured value of the freight. If used, the ServiceCode ECC must be added.
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Element	ShipmentDetails			
Description	Holds Classes and Weights for Rating			
Rules	One instance is required, can supply up to 10			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
ActualClass	Double	Yes	1	Class of Freight – See Appendix A for list of allowed values
Weight	Integer	Yes	1	Weight of freight for listed class

Element	ServiceOptions			
Description	Holds optional services that can be added			
Rules	Not required, but can hold 15 different accessories			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
ServiceCode	String (3)	Yes	1	Code for additional service requested. See Appendix B for allowed values

Response Schema

The following tables contain the complex types found in the quote Response schema. Each table consists of the following:

1. Element – The element name
2. Description – Information describing the element
3. Rules – Element requirements and limitation

Element	Guaranteed			
Description	Guaranteed service charge			
Rules	Only returned with RateQuoteWithGuarV2 and RateQuoteByAccountWithGuarV2 Methods			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
Guaranteed	Double	Yes	1	If value is 0 guaranteed service is not available in the lane.

Element	Quote Response			
Description	The root element for a quote response			
Rules	This element is required in a response			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
QuoteNumber	Integer	Yes	1	Quote Number returned from RRTS system
Net Charge	Double	Yes	1	Contains the net rate. In the event a quote cannot be rated, will return -1
Customer	Customer Container	Yes	1	Container for Customer Information as stored by RRTS
RoutingInfo	Routing Container	Yes	1	Container for Routing Information as stored by RRTS
RateDetails	QuoteDetail	Yes	1..99	Individual line charges calculated by RRTS system
CustomerCubicFoot	Integer	No	1	Returns the same cubic foot submitted
HawaiianCubicFoot	Integer	No	1	Returns cubic foot used for rating Hawaiian shipments

Element	CustomerInformation			
Description	Container for Customer Information			
Rules	This element is required in a response			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
AccountNumber	String	Yes	1	Users main RRTS account number

Element	Routing Information			
Description	Container for Routing Information Details			
Rules	This element is required in a response			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
DestinationState	String	Yes	1	Destination State
Name	String	Yes	1	Customer Name
Address1	String	Yes	1	Customer Address
Address2	String	No	0...1	Additional Address Information
City	String	Yes	1	Customer City
State	String	Yes	1	Customer State
ZipCode	String	Yes	1	Customer Zip Code
DestinationZip	String	Yes	1	Destination Zip Code
OriginState	String	Yes	1	Origin State
OriginZip	String	Yes	1	Origin Zip Code
EstimatedTransitDays	String	Yes	1	Transit time in days
OriginTerminal	String	Yes	1	Origin Terminal Code

Element	Quote Detail			
Description	Holds optional services that can be added			
Rules	Not required, but can hold 15 different accessories			
Element Name	Type (Length)	Required	Cardinality	Description and Rules
Actual Class	String	No	0...1	Actual Class of Item
Rated Class	String	No	0...1	Rated Class of the Item
Code	String	No	0...1	Provided for most items. Will be blank for base rate. See Appendix C for a list of values
Description	String	No	0...1	Description for the code field
Rate	Double	No	0...1	Rate for item
Weight	Integer	No	0...1	Weight for the item
ExtraMessages	String	No	1	Message generated by the system. Explains why rates came back with a -1 or where to find more information
Charge	Double	Yes	1	Contains positive or negative charges. Will be -1 if line item cannot be provided online

Rate Quote Error Messages

If there are errors that stop a rating request, messages are returned via a SOAP fault. Errors that are because of data issues will have a fault code of **Client** while issues with the system at Roadrunner will have a fault code of **Server**. Examples of Client SOAP faults include the following scenarios:

- Invalid zip code is sent
- Roadrunner does not ship from the origin to the destination
- Invalid user name or password
- User is not setup for online rating
- Account number is not active
- User is inactive
- Invalid class, origin type or payment type

Other exceptions require more information before a quote can be sent. A subset of error numbers and descriptions are:

- Error Number 99999 – Internal System Error
- Error Number 99998 – Invalid User
- Error Number 99997 – Invalid Request – description will be provided
- Error Number 99996 – This account has linear ft rating, send back 0 (if unknown) or linear ft value
- Error Number 99995 – This account has pallet rating, send back 0 (if unknown) or pallet value
- Error Number 99994 – Pallet count required for accessorial
- Error Number 99993 – Piece count required for accessorial
- Error Number 99992 – This account has cubic ft rating, send back 0 (if unknown) or cubic ft value
- Error Number 99991 – Manual rating required, call Roadrunner for a quote
- Error Number 99990 – Other unknown error – description will be provided
- Error Number 99987 – Cubit foot value is required for Hawaii shipments

Appendix A – Valid Freight Classes

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

Appendix B – Valid Request Service Codes

Code	Description
AHD	Apartment Delivery
AHP	Apartment Pickup
AID	Airport Site Delivery
AIP	Airport Site Pickup
AMD	Amusement Park Delivery
AMP	Amusement Park Pickup
APT	Appointment Charge
BSC	Blind Shipment Charge
CCD	Country Club Delivery
CCP	Country Club Pickup
CFD	Container Station Delivery
CFS	Container Station Pickup
CHD	Place of Worship Delivery
CHP	Place of Worship Pickup
CPD	Camp/Park/Resort Delivery
CPP	Camp/Park/Resort Pickup
CSD	Construction Delivery
CSP	Construction Pickup
DCC	Distribution Center Delivery
ECC	Full Value Coverage
ESD	Exhibition Site Delivery
EXH	Exhibition Site Pickup
EXM	Excessive Length 8-12 ft
EXN	Excessive Length 12-16 ft
EXL	Excessive Length 16-20 ft
EXO	Excessive Length 20-27 ft
EXX	Excessive Length >27 ft
FAD	Farm/Ranch Delivery
FAP	Farm/Ranch Pickup
FAB	Floors Above Delivery
FSD	Forest Delivery
GSD	Government Site Delivery
GWD	Grocery Distribution Delivery
GWP	Grocery Distribution Pickup

Code	Description
HAZ	Hazardous Materials
HHD	Hotel Delivery
HHP	Hotel Pickup
IRD	Reservation Delivery
IRP	Reservation Pickup
ID	Inside Delivery
IP	Inside Pickup
LGD	Liftgate Delivery
LGP	Liftgate Pickup
LTD	Limited Access Delivery
LTP	Limited Access Pickup
MSD	Mine Site Delivery
NBD	Non-Business Hours Delivery
NC	Notification Charge
NHD	Nursing Home Delivery
NHP	Nursing Home Pickup
PP	Guaranteed Service
PWD	Pier/Port/Wharf Delivery
PWP	Pier/Port/Wharf Pickup
PSD	Prison Delivery
PSC	Protect from Cold
RSD	Residential Delivery
RSP	Residential Pickup
SHD	School Site Delivery
SHP	School Site Pickup
SRT	Sort and Segregate
STD	Storage Unit Delivery
STP	Storage Unit Pickup
USD	Utility Site Delivery
USP	Utility Site Pickup
WCL	Hawaiian Will Call

Appendix C – Response Codes

Code	Description
AAP	Non-Direct Point Pricing
AS	Rated AS Values
BYD	Beyond Charge
BYI	Beyond Island Charge
BYP	Beyond Documentation Charge
CA	California Compliance Destination Charge
CO	California Compliance Origin Charge
CWC	Canadian Warehouse Charge
CWS	Canadian Border Clearance Charge
DEF	Deficit Weight
DIS	Discount
FSB	Beyond Fuel Surcharge
FSC	Fuel Surcharge
GLS	Geographic Linehaul Surcharge
LHS/HND	Linehaul Surcharge
NYD	New York Delivery Charge
NYP	New York Pickup Charge
PLT	Pallet Based Charges
RLS	Regional Linehaul Surcharge
SED	Shipper Export Declaration Charge

Notes:

Only a single California Compliance charge will appear for any shipment. A shipment will not have both CA & CO charge.