



Advancing transportation technology

Standardized Carrier Web Service guide

## Direct to Carrier web services

### Important security note:

While Project44 web service APIs are available through HTTP, it is always recommended to utilize HTTPS for security purposes as HTTP is an insecure protocol.

### Rate quotes

The standardized carrier rate quote web service is a simple web service based on HTTP GET/POST. The service expects parameters to be passed in as GET/POST parameters and returns results in XML.

### Sample rate quote request:

```
cloud.p-44.com/xml/SHIF/quote.xml?  
originPostalCode=90210&destinationPostalCode=11598&lineItems[0].freightClass=50&lineItems[0].weight=1000&lineItems[1].freightClass=50&lineItems[1].weight=1000&accessorials=APPT&accessorials=GUR&carrierLogin=mylogin&carrierPassword=mypassword
```

Below are the parameters that are expected:

Parameter name	Required	Description
carrierLogin	Y	Carrier issued login
carrierPassword	Y	Carrier issues password
originPostalCode	Y	Shipper's postal (zip) code
destinationPostalCode	Y	Consignee's postal (zip) code
lineItems[0].freightClass	Y	Freight class for the first line item. Note that this line can be repeated several times as follows: lineItems[0].freightClass lineItems[1].freightClass lineItems[2].freightClass  ... and so on. Please note the maximum line items passed is limited by each carrier
lineItems[0].weight	Y	Weight class for first line item. Note that this line can be repeated several times as follows: lineItems[0].weight lineItems[1].weight lineItems[2].weight  ... and so on. Please note the maximum line items passed is limited by each carrier

Parameter name	Required	Description
lineItems[0].palletCount	N	Number of pallets being shipped on this line
lineItems[0].numPieces	N	Number of pieces being shipped on this line
accessorials	N	Accessorial codes for this rate quote request. Valid accessorial codes for SHIFT Freight are: <b>APPT</b> – appointment <b>ELS27</b> – Excess length+27 <b>ELS13</b> – Excess Length 13-26 <b>MARKING</b> – Marking or Tagging <b>NOTIFY</b> – Notify <b>SORT</b> – Sort and Segregate

### Rate quote returned XML:

```

<RateQuoteResponse>
  <quoteDate>2014-02-11T02:07:30.819Z</quoteDate>
  <rateDetail>
    <rateAdjustments>
      <description>FREIGHT</description>
      <descriptionCode />
      <amount>559.3</amount>
      <rate>55.93</rate>
    </rateAdjustments>
    <rateAdjustments>
      <description>FREIGHT</description>
      <descriptionCode />
      <amount>559.3</amount>
      <rate>55.93</rate>
    </rateAdjustments>
    <rateAdjustments>
      <description>Appointment</description>
      <descriptionCode>APPT</descriptionCode>
      <amount>10.0</amount>
      <rate>0.0</rate>
    </rateAdjustments>
    <rateAdjustments>
      <description>GUARANTEED BY 17:00</description>
      <descriptionCode>GUAR</descriptionCode>
      <amount>167.79</amount>
      <rate>0.0</rate>
    </rateAdjustments>
    <rateAdjustments>
      <description>LINEHAUL ASSESSMENT FEE</description>
      <descriptionCode>LHASSESS</descriptionCode>
      <amount>10.0</amount>
      <rate>0.0</rate>
    </rateAdjustments>
  </rateDetail>
</RateQuoteResponse>

```

```

    </rateAdjustments>
    <rateAdjustments>
      <description>HIGH COST DELIVERY ZIPS - NEW YORK CITY
BUROUGHES</description>
      <descriptionCode>NYC</descriptionCode>
      <amount>25.0</amount>
      <rate>0.0</rate>
    </rateAdjustments>
    <rateAdjustments>
      <description>FUEL SURCHARGE: 31%</description>
      <descriptionCode>FSC</descriptionCode>
      <amount>346.77</amount>
      <rate>0.0</rate>
    </rateAdjustments>
    <total>1678.16</total>
  </rateDetail>
  <serviceType>GUARANTEED</serviceType>
  <totalPallets>2</totalPallets>
  <totalPieces>2</totalPieces>
  <totalWeight>2000.0</totalWeight>
  <transitTime>7</transitTime>
</RateQuoteResponse>

```

### XML Field description:

XML tag	Description
RateQuoteResponse	Header tag encapsulating the entire rate quote request
quoteDate	Date of this quote
rateDetail	A list of line item charges for this quote
rateAdjustments	A single line item charge to this quote
rateAdjustments → description	Readable description of the line item charge
rateAdjustments → descriptionCode	Code that describes this line item charge
rateAdjustments → amount	The actual amount charged (adds into the total)
rateAdjustments → rate	Rate used by carrier to calculate this charge
serviceType	The service level of this quote (GUARANTEE, ED, ECONOMY, or any other value the carrier returns)
totalPallets	Total number of pallets shipped across line items
totalWeight	Total weight of pallets shipped across line items
transitTime	Estimated transit time as reports by carrier
carrierNote	Readable notes from the carrier regarding this charge.
deliveryDate	Estimated delivery date
errors	List of errors that may have occurred (if any)
errors → errorCode	Error code if an error occurred

<b>XML tag</b>	<b>Description</b>
<code>Errors → message</code>	Readable message describing the error

## Dispatch requests

The standardized carrier dispatch web service is a simple web service based on HTTP GET/POST. The service expects parameters to be passed in as GET/POST parameters and returns results in XML. It is recommended to use POST for dispatch requests as the information may not fit within the limitations of a GET request. **Note that line items may be repeated, line item limits are set by the carrier.**

### Sample dispatch request:

[https://cloud.p-44.com/xml/SHIF/dispatch.xml?carrierLogin=mylogin&carrierPassword=mypassword&shipperCompany=TESTING&shipperContact=Jimmy&shipperAddress1=TEST%201234%20NE%20Main&shipperCity=Beverly%20Hills&shipperState=CA&shipperPostalCode=90210&shipperCountry=US&shipperPhone=555.325.3535&shipperEmail=jimmy@p-44.com&consigneeCompany=TESTING&consigneeContact=johnny%20TESTING&consigneeAddress1=TEST%201234%20NE%20Main&consigneeCity=Woodmere&consigneeState=NY&consigneePostalCode=11598&consigneeCountry=US&consigneePhone=555.333.1515&consigneeEmail=jonny@p-44.com&lineItems\[0\].quantity=1&lineItems\[0\].weight=1000&lineItems\[0\].description=TestDescription&lineItems\[0\].freightClass=77.5&lineItems\[0\].hazmat=false&lineItems\[0\].pieces=2&&lineItems\[1\].pieces=2&lineItems\[1\].pieceslineItems\[1\].quantity=1&lineItems\[1\].weight=789&lineItems\[1\].description=TestDescription&lineItems\[1\].freightClass=100&lineItems\[1\].hazmat=false&dockCloseTime=19:00](https://cloud.p-44.com/xml/SHIF/dispatch.xml?carrierLogin=mylogin&carrierPassword=mypassword&shipperCompany=TESTING&shipperContact=Jimmy&shipperAddress1=TEST%201234%20NE%20Main&shipperCity=Beverly%20Hills&shipperState=CA&shipperPostalCode=90210&shipperCountry=US&shipperPhone=555.325.3535&shipperEmail=jimmy@p-44.com&consigneeCompany=TESTING&consigneeContact=johnny%20TESTING&consigneeAddress1=TEST%201234%20NE%20Main&consigneeCity=Woodmere&consigneeState=NY&consigneePostalCode=11598&consigneeCountry=US&consigneePhone=555.333.1515&consigneeEmail=jonny@p-44.com&lineItems[0].quantity=1&lineItems[0].weight=1000&lineItems[0].description=TestDescription&lineItems[0].freightClass=77.5&lineItems[0].hazmat=false&lineItems[0].pieces=2&&lineItems[1].pieces=2&lineItems[1].pieceslineItems[1].quantity=1&lineItems[1].weight=789&lineItems[1].description=TestDescription&lineItems[1].freightClass=100&lineItems[1].hazmat=false&dockCloseTime=19:00)

Below are the parameters that are expected:

Parameter name	Required	Description
carrierLogin	Y	Carrier issued login
carrierPassword	Y	Carrier issued password
shipperCompany	Y	Name of shipper's company or person's name
shipperContact	Y	Name of shipper contact
shipperAddress1	Y	
shipperCity	Y	
shipperState	Y	
shipperPostalCode	Y	
shipperPhone	Y	
shipperEmail	Y	
consigneeCompany	Y	Consignee company or person's name
consigneeContact	Y	

Parameter name	Required	Description
consigneeAddress1	Y	
consigneeCity	Y	
consigneeState	Y	
consigneePostalCode	Y	
consigneeCountry	Y	
consigneePhone	Y	
consigneeEmail	N	
lineItems[0].quantity	N	Pallet count
lineItems[0].weight	Y	Weight of this line item
lineItems[0].description	Y	Description of item shipped
lineItems[0].freightClass	Y	Freight class for this item
lineItems[0].hazmat	N	True/False, defaults to false
lineItems[0].pieces	Y	Pieces count for line item
lineItems[0].density	N	
lineItems[0].length	N	
lineItems[0].width	N	
lineItems[0].height	N	
lineItems[0].packageType	N	
lineItems[0].nmfc	N	
dockCloseTime	Y	HH:mm (example: 19:00)
pickupDateTime	N	yyyy/MM/dd HH:mm (example 2014/02/01 17:00)
pickupContactName	Y	Pick up contact's name
pickupPhone	N	Pick up contact's phone number
pickupEmail	N	Pickup contact's email address
emailBOLShip	N	Email BOL to shipper
emailNotifyShip	N	Email shipment notification to shipper
emailApptShip	N	Appointment notification to shipper
emailDelivShip	N	Delivery notification to shipper
emailBOLCons	N	Email BOL to consignee
emailNotifyCons	N	Email shipment notification to Consignee

Parameter name	Required	Description
emailApptCons	N	Appointment notification to Consignee
emailDelivCons	N	Delivery notification to Consignee
errors	List of errors that may have occurred (if any)	
errors → errorCode	Error code if an error occurred	
Errors → message	Readable message describing the error	

**Below is a sample response from the dispatch XML request:**

```
<DispatchResponse>
  <bolLink>
    https://tracking.carrierlogistics.com/scripts/sft.pol/bolentry3.pdf?
pronumb=0x000000000000c4c08
  </bolLink>
  <contactName>JimmyTESTING</contactName>
  <debtor>Jimmy DEVELOPMENT</debtor>
  <destinationAddress>
    <address1>TEST 1234 NE Main</address1>
    <companyName>TESTING</companyName>
    <city>Woodmere</city>
    <stateName>NY</stateName>
    <postalCode>11598</postalCode>
  </destinationAddress>
  <dockCloseTime>19:00</dockCloseTime>
  <labelLink>
    https://tracking.carrierlogistics.com/scripts/sft.pol/shiplabelsm.pdf?
pronumb=34TESTPRONUM
  </labelLink>
  <lineItems>
    <code />
    <quantity>0</quantity>
    <weight>1000</weight>
    <freightClass>077</freightClass>
    <description>TestDescription</description>
    <pieces>2</pieces>
    <length>0</length>
    <width>0</width>
    <height>0</height>
    <density>0</density>
  </lineItems>
  <lineItems>
    <code />
    <quantity>0</quantity>
    <weight>789</weight>
    <freightClass>100</freightClass>
    <description>TestDescription</description>
  </lineItems>
</DispatchResponse>
```



```
<pieces>2</pieces>
<length>0</length>
<width>0</width>
<height>0</height>
<density>0</density>
</lineItems>
<lineItems>
  <code>LHASSESS</code>
  <quantity>0</quantity>
  <weight>0</weight>
  <freightClass />
  <description>LINEHAUL ASSESSMENT FEE</description>
  <pieces>0</pieces>
  <length>0</length>
  <width>0</width>
  <height>0</height>
  <density>0</density>
</lineItems>
<lineItems>
  <code />
  <quantity>0</quantity>
  <weight>0</weight>
  <freightClass>077</freightClass>
  <description>DEFICIT WEIGHT 211 LBS.</description>
  <pieces>0</pieces>
  <length>0</length>
  <width>0</width>
  <height>0</height>
  <density>0</density>
</lineItems>
<lineItems>
  <code>NYC</code>
  <quantity>0</quantity>
  <weight>0</weight>
  <freightClass />
  <description>HIGH COST DELIVERY ZIPS - NEW YORK CITY BOROUGHS</description>
  <pieces>0</pieces>
  <length>0</length>
  <width>0</width>
  <height>0</height>
  <density>0</density>
</lineItems>
<lineItems>
  <code>FSC</code>
  <quantity>0</quantity>
  <weight>0</weight>
  <freightClass />
  <description>FUEL SURCHARGE: 31%</description>
  <pieces>0</pieces>
  <length>0</length>
  <width>0</width>
  <height>0</height>
  <density>0</density>
</lineItems>
<originAddress>
  <address1>TEST 1234 NE Main</address1>
  <companyName>TESTING</companyName>
  <city>Beverly Hills</city>
```

```
<stateName>CA</stateName>
  <postalCode>90210</postalCode>
</originAddress>
<pickupDateTime>2014-02-25T12:00:00Z</pickupDateTime>
<poNumber />
<proNumber />
<quoteNumber>17054</quoteNumber>
<quoteTotal>2226.22</quoteTotal>
<quoteVersion>tboentry4-20140128</quoteVersion>
<referenceNumber>QuoteNo: 17054</referenceNumber>
<serviceTypeCode>E</serviceTypeCode>
<serviceTypeDescription>GUARANTEED</serviceTypeDescription>
<stopNumber>138</stopNumber>
<terminalCode>SFS</terminalCode>
<trackingNumber>17054</trackingNumber>
</DispatchResponse>
```