

Pilot Freight Services

Rating Web Service Documentation

A. Webservice Address

1. <http://ws.pilotdelivers.com/tms2.1/tmsdev/PilotServiceRequest.asmx>

B. WSDL File

1. <http://ws.pilotdelivers.com/tms2.1/tmsdev/PilotServiceRequest.asmx?WSDL>

C. Functions to use in rating

1. **GetNewQuote** – returns **dsQuote** with default values

Populate the basic required fields below in rating a shipment:

- TQSQuote/LocationID
- TQSQuote/TariffHeaderID
- TQSQuote/Shipper/Zipcode
- TQSQuote/Consignee/Zipcode
- TQSQuote/LinItems = set the dimensions/line items
 <Pieces>1</Pieces>
 <Weight>100</Weight>
 <Description>Computer</Description>
 <Length>30</Length>
 <Width>20</Width>
 <Height>20</Height>
- TQSQuote/Quote/Service (optional) – required only when rating specific service

List of most popular commercial services

Code	Name
NF	FIRST FLIGHT SERVICE
18	NEXT AM
24	NEXT PM
48	TWO DAY
66	THREE DAY
72	ECONOMY

List of most popular home delivery services

Code	Name
BA	BASIC
DE	DELUXE
PR	PREMIER
S1	STANDARD ONE MAN
S2	STANDARD TWO MAN

2. RateAllServices - rate all services (input dsQuote)

```
<soap12:Body>
  <Rate xmlns="http://www.pilotair.com/">
    <cQuote>dsQuote</cQuote>
  </Rate>
</soap12:Body>

<soap12:Body>
  <RateResponse xmlns="http://www.pilotair.com/">
    <RateResult>
      <IsError>boolean</IsError>
      <Message>string</Message>
      <dsQuote>dsQuote</dsQuote>
    </RateResult>
  </RateResponse>
</soap12:Body>
```

A. Sample VB Code:

```
Dim wsQuote As New wsQuote.PilotServiceRequest
Dim dsQuote As wsQuote.dsTQSQuote = wsQuote.GetNewQuote

dsQuote.TQSQuote(0).LocationID = 10626325
dsQuote.TQSQuote(0).TariffHeaderID = 22837

dsQuote.Shipper(0).Zipcode = "33133"

dsQuote.Consignee(0).Zipcode = "60606"

Dim drline As wsQuote.dsTQSQuote.LinItemsRow = dsQuote.LinItems.NewLinItemsRow
drline.LineRow = 0
drline.Pieces = 1
drline.Weight = 100
drline.Description = "Test Item"
drline.Length = 30
drline.Width = 20
drline.Height = 20
drline.TQSQuoteRow = dsQuote.TQSQuote(0)
dsQuote.LinItems.Rows.Add(drline)

Dim res As wsQuote.PilotQuoteResult = wsQuote.RateAllServices(dsQuote)
dsQuote.WriteXml("C:\request.xml")
res.dsQuote.WriteXml("C:\response.xml")
```

3. **Rate** – rate specific service (input dsQuote)

```
<soap12:Body>
  <Rate xmlns="http://www.pilotair.com/">
    <cQuote>dsQuote</cQuote>
  </Rate>
</soap12:Body>

<soap12:Body>
  <RateResponse xmlns="http://www.pilotair.com/">
    <RateResult>
      <IsError>boolean</IsError>
      <Message>string</Message>
      <dsQuote>dsQuote</dsQuote>
    </RateResult>
  </RateResponse>
</soap12:Body>
```

4. **CalculateQuoteAmount** - rate specific service (input string in xml format)

```
<soap:Body>
  <CalculateQuoteAmounts xmlns="http://www.pilotair.com/">
    <strXMLQuote>string</strXMLQuote>
    <Message>string</Message>
  </CalculateQuoteAmounts>
</soap:Body>

<soap:Body>
  <CalculateQuoteAmountsResponse xmlns="http://www.pilotair.com/">
    <CalculateQuoteAmountsResult>string</CalculateQuoteAmountsResult>
    <Message>string</Message>
  </CalculateQuoteAmountsResponse>
</soap:Body>
```

5. **CalculateServiceRates** – rate all services (input string in xml format)

```
<soap:Body>
  <CalculateServiceRates xmlns="http://www.pilotair.com/">
    <strXMLQuote>string</strXMLQuote>
    <Message>string</Message>
  </CalculateServiceRates>
</soap:Body>

<soap:Body>
  <CalculateServiceRatesResponse xmlns="http://www.pilotair.com/">
    <CalculateServiceRatesResult>string</CalculateServiceRatesResult>
    <Message>string</Message>
  </CalculateServiceRatesResponse>
</soap:Body>
```

D. OUTPUT

The xml output layout is the same as dsQuote but with `<Quote>`. The rates and detailed calculation will be under the `<Quote>`. The rate for a service will be in `Quote/TotalQuote`.

Sample `<Quote>` for service BASIC (BA)

```
<Quote>
  <Service>BA</Service>
  <DimWeight>48</DimWeight>
  <TotalQuote>110.92</TotalQuote>
  <Oversized>>false</Oversized>
  <OversizedServiceArea>""</OversizedServiceArea>
  <AbleToCalculate>>true</AbleToCalculate>
  <ChargeWeight>100</ChargeWeight>
  <Beyond>>false</Beyond>
  <DisplayService>BASIC</DisplayService>
  <TopLine>85</TopLine>
  <UpgradeRequiredForServiceArea>>false</UpgradeRequiredForServiceArea>
  <LinkForShipping>/WebAirBill/webairbill.aspx?Section=Ship&SubSection=NewShipment&QuoteID=222222&
    LocationID=1111111&Service=BA</LinkForShipping>
  <ExtendedTopLine>110.92</ExtendedTopLine>
  <Breakdown>
    <ChargeCode>1</ChargeCode>
    <Charge>85</Charge>
    <BillCodeName>FREIGHT CHARGES</BillCodeName>
    <Steps>ChargeWeight * Rate : 100 X 0.6400=64.00 Apply the Minimum: 85.00 = 85.00</Steps>
  </Breakdown>
  <Breakdown>
    <ChargeCode>6</ChargeCode>
    <Charge>25.92</Charge>
    <BillCodeName>FUEL SURCHARGE</BillCodeName>
    <Steps>ServiceArea: Top Line=85 RateType:Percent(Round): (30.5000X85)/100 =25.92 Use
    the Greater value Between Min and Rate: 25.92 OR 0.0000=25.92</Steps>
  </Breakdown>
</Quote>
```