

Overview

This API allows the integration of customers' systems with Pilot Freight Services' for rating new shipment information from their systems. It can be worked into many customers' workflows and/or scenarios. Although it's not required, this step can be taken before calling our Shipment Entry API.

Getting Started

The following functions can be used:

Function	Description
GetNewQuote	Used to get the object needed to be populated and then used as the input parameter to the Rate and RateAllServices functions in this API.
GetQuote	Used to get a Quote response gotten previously from the Rate or RateAllServices functions in this API. The QuoteID value that was generated and assigned to the original Quote response is required as an input parameter to this function.
(SOAP/REST)	Used to submit a Quote to Pilot for Rating. This function accepts only one Service code value at a time, and it is recommended to use the RateAllServices function instead to see all Services rated at once for the given Quote data submitted.
Rate	Used to submit a Quote to Pilot for Rating. It allows for all Service levels to be rated at once and returned in the response to the caller. It is recommended that this function is used instead of Rate because many times customers are not always supplied a list of Service codes found in their tariff. Using this function with the correct customer TariffHeaderID value would provide this list of Service levels or codes that are available as well as rate all of them all at once in a single response.

Error Codes

Error responses are formatted similarly to the responses found in the [Retrieving Data](#) section. The only change is the IsError flag – it should be set to true – with an Error Message populating the Message value in the response. There is always a full dsQuote object whether this call results in a success or failure response. In the case of a success, this object populates with the corresponding Rating information.

The RateAllServices and Rate error codes are described here:

Function	Description
RateAllServices	<ul style="list-style-type: none">• When LocationID is missing or set to 0: The Tariff or Location is incorrect.• When TariffHeaderID is missing or set to 0: Source= PilotDBLayerMessage =Object reference not set to an instance of an object.• When the Shipper or Consignee elements are missing information (minimum zip code for each is required): Unable to find the scale.
Rate	<ul style="list-style-type: none">• When LocationID is missing or set to 0: The Tariff or Location is incorrect.• When TariffHeaderID is missing or set to 0: TariffName does not exist in the database.• When the Shipper or Consignee elements are missing information (minimum zip code for each is required): Unable to find the scale.

Endpoints

Live

<http://ws.pilotair.com/tms2.1/tms/PilotServiceRequest.asmx>

Dev/Test

<http://ws.pilotair.com/tms2.1/tms/PilotServiceRequest.asmx>

REST

<https://www.pilotssl.com/pilotapi/v1/Ratings>

REST Developer Playground

<https://www.pilotssl.com/pilotapi/swagger/ui/index>

WSDL

<https://ws.pilotair.com/tms2.1/tms/PilotServiceRequest.asmx?WSDL>

Security/Authentication

Although this API does not use traditional or industry-standardized authentication mechanisms, Pilot uses a level of abstraction to ensure the caller is indeed using valid ID values in the form of LocationID and TariffHeaderID values. Mainly, LocationID is related and established as part of a key pair when a customer location is added to a customer's CoPilot account. TariffHeaderID comes directly from and identifies the customer's tariff to use in the Rating of the given shipment information. TariffHeaderID cannot be set to 0.

Resources

Retrieving Data

GetNewQuote

<https://www.pilotssl.com/pilotpartnertracking.asmx?op=PilotAPITracking>

GetQuote (SOAP)

<http://ws.pilotair.com/tms2.1/tms/PilotServiceRequest.asmx?op=GetQuote>

GetQuote (REST)

https://www.pilotssl.com/pilotapi/swagger/ui/index#!/Ratings/Ratings_Get

Rate (SOAP)

<http://ws.pilotair.com/tms2.1/tms/PilotServiceRequest.asmx?op=Rate>

Rate (REST)

https://www.pilotssl.com/pilotapi/swagger/ui/index#!/Ratings/Ratings_Rate

RateAllServices (SOAP)

<http://ws.pilotair.com/tms2.1/tms/PilotServiceRequest.asmx?op=RateAllServices>

RateAllServices (REST)

https://www.pilotssl.com/pilotapi/swagger/ui/index#!/Ratings/Ratings_RateAllServices

SOAP Response Example

The following response object example for the functions RateAllServices, Rate, and GetQuote is called dsQuote. To get the request object to populate, the function GetNewQuote should be called.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://www.w3.org/2003/05/soap-envelope"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <RateAllServicesResponse xmlns="http://www.pilotair.com/">
      <RateAllServicesResult>
        <IsError>>false</IsError>
        <dsQuote>
          <xs:schema id="dsTQSQuote"
targetNamespace="http://tempuri.org/dsTQSQuote.xsd"
xmlns:mstns="http://tempuri.org/dsTQSQuote.xsd"
xmlns="http://tempuri.org/dsTQSQuote.xsd"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-microsoft-
com:xml-msdata" attributeFormDefault="qualified" elementFormDefault="qualified">
            <xs:element name="dsTQSQuote" msdata:IsDataSet="true"
msdata:UseCurrentLocale="true">
              <xs:complexType>
                <xs:choice minOccurs="0" maxOccurs="unbounded">
                  <xs:element name="TQSQuote">
                    <xs:complexType>
                      <xs:sequence>
                        <xs:element name="QuoteID"
type="xs:int" minOccurs="0" />
                        <xs:element name="TariffID"
type="xs:int" minOccurs="0" />
                        <xs:element name="Scale"
type="xs:string" minOccurs="0" />
                        <xs:element name="LocationID"
type="xs:int" />
                        <xs:element name="TransportByAir"
type="xs:boolean" minOccurs="0" />
                        <xs:element
name="CalculateBillCode" type="xs:boolean" minOccurs="0" />
                        <xs:element name="IsSaveQuote"
type="xs:boolean" default="true" minOccurs="0" />
                        <xs:element
name="IATA_Classifications" type="xs:int" minOccurs="0" />
                        <xs:element
name="PackingContainers" type="xs:int" minOccurs="0" />
                        <xs:element name="DeclaredValue"
type="xs:double" minOccurs="0" />
                        <xs:element name="InsuranceValue"
type="xs:double" minOccurs="0" />
                        <xs:element name="COD"
type="xs:double" minOccurs="0" />
                        <xs:element name="TariffName"
type="xs:string" />
                        <xs:element name="Notes"
type="xs:string" minOccurs="0" />
                        <xs:element name="Service"
type="xs:string" minOccurs="0" />
                      
                    
                  
                
              
            
          
        
      
    
  
```


Rating API Specification



```
name="DedicatedVehicle" type="xs:string" minOccurs="0" />
name="Miles" type="xs:int" minOccurs="0" />
name="Canadian" type="xs:boolean" minOccurs="0" />
name="ServiceCode" type="xs:string" minOccurs="0" />
name="Convention" type="xs:boolean" minOccurs="0" />
name="Country" type="xs:string" minOccurs="0" />
name="IsBeyond" type="xs:boolean" minOccurs="0" />
name="BeyondServiceArea" type="xs:string" minOccurs="0" />
name="Station" type="xs:string" minOccurs="0" />
name="AirtrakNo" type="xs:int" default="0" minOccurs="0" />
minOccurs="0" maxOccurs="unbounded">
  </xs:sequence>
  </xs:complexType>
  </xs:element>
  <xs:element name="Consignee"
    <xs:complexType>
      <xs:sequence>
        <xs:element
name="Name" type="xs:string" minOccurs="0" />
name="PDArea" type="xs:string" minOccurs="0" />
name="Address1" type="xs:string" minOccurs="0" />
name="Address2" type="xs:string" minOccurs="0" />
name="City" type="xs:string" minOccurs="0" />
name="State" type="xs:string" minOccurs="0" />
name="Zipcode" type="xs:string" minOccurs="0" />
name="Airport" type="xs:string" minOccurs="0" />
name="Attempted" type="xs:boolean" minOccurs="0" />
name="PrivateRes" type="xs:boolean" minOccurs="0" />
name="Hotel" type="xs:boolean" minOccurs="0" />
name="Inside" type="xs:boolean" minOccurs="0" />
name="Liftgate" type="xs:boolean" minOccurs="0" />
name="TwoManHours" type="xs:double" minOccurs="0" />
name="WaitTimeHours" type="xs:double" minOccurs="0" />
```

Rating API Specification



```
name="Special" type="xs:string" minOccurs="0" />
name="DedicatedVehicle" type="xs:string" minOccurs="0" />
name="Miles" type="xs:int" minOccurs="0" />
name="Canadian" type="xs:boolean" minOccurs="0" />
name="ServiceCode" type="xs:string" minOccurs="0" />
name="Convention" type="xs:boolean" minOccurs="0" />
name="Country" type="xs:string" minOccurs="0" />
name="IsBeyond" type="xs:boolean" minOccurs="0" />
name="BeyondServiceArea" type="xs:string" minOccurs="0" />
name="Station" type="xs:string" minOccurs="0" />
name="AirtrakNo" type="xs:int" default="0" minOccurs="0" />
minOccurs="0" maxOccurs="unbounded">
  </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="LineItems"
  <xs:complexType>
    <xs:sequence>
      <xs:element
name="LineRow" type="xs:int" minOccurs="0" />
      <xs:element
name="Pieces" type="xs:int" minOccurs="0" />
      <xs:element
name="Weight" type="xs:int" minOccurs="0" />
      <xs:element
name="Description" type="xs:string" minOccurs="0" />
      <xs:element
name="Length" type="xs:int" minOccurs="0" />
      <xs:element
name="Width" type="xs:int" minOccurs="0" />
      <xs:element
name="Height" type="xs:int" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Quote"
  <xs:complexType>
    <xs:sequence>
      <xs:element
name="Service" type="xs:string" />
      <xs:element
name="DimWeight" type="xs:int" minOccurs="0" />
      <xs:element
name="TotalQuote" type="xs:double" minOccurs="0" />
```

Rating API Specification



```
name="Oversized" type="xs:boolean" minOccurs="0" />
name="OversizedServiceArea" type="xs:string" minOccurs="0" />
name="AbleToCalculate" type="xs:boolean" minOccurs="0" />
name="ChargeWeight" type="xs:int" minOccurs="0" />
name="Beyond" type="xs:boolean" minOccurs="0" />
name="DisplayService" type="xs:string" minOccurs="0" />
name="TopLine" type="xs:double" minOccurs="0" />
name="UpgradeRequiredForServiceArea" type="xs:boolean" default="false"
minOccurs="0" />
name="LinkForShipping" type="xs:string" minOccurs="0" />
name="DeliveryDate" type="xs:dateTime" minOccurs="0" />
name="ExtendedTopLine" type="xs:double" minOccurs="0" />
name="Breakdown" minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
        <xs:sequence>
            <xs:element name="ChargeCode" type="xs:int" minOccurs="0" />
            <xs:element name="Charge" type="xs:double" minOccurs="0" />
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            <xs:element name="Steps" type="xs:string" />
        </xs:sequence>
    </xs:complexType>
</xs:element>
</xs:sequence>
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</xs:complexType>
</xs:element>
</xs:choice>
</xs:complexType>
</xs:element>
</xs:schema>
<diffgr:diffgram xmlns:msdata="urn:schemas-microsoft-com:xml-
msdata" xmlns:diffgr="urn:schemas-microsoft-com:xml-diffgram-v1">
    <dsTQSQuote xmlns="http://tempuri.org/dsTQSQuote.xsd">
        <TQSQuote diffgr:id="TQSQuote1" msdata:rowOrder="0"
diffgr:hasChanges="modified" msdata:hiddenTQSQuote_Id="0">
            <QuoteID></QuoteID>
            <TariffID></TariffID>
            <Scale></Scale>
            <LocationID></LocationID>
```

```
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<IsSaveQuote></IsSaveQuote>
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<PackingContainers></PackingContainers>
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<InsuranceValue></InsuranceValue>
<COD></COD>
<TariffName />
<Notes />
<Service />
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<ChargeWeight></ChargeWeight>
<TotalPieces></TotalPieces>
<ShipDate></ShipDate>
<TariffHeaderID></TariffHeaderID>
<UserID></UserID>
<QuoteConfirmationEmail />
<DebrisRemoval></DebrisRemoval>
<Gateway></Gateway>
<IsInternational></IsInternational>
<Shipper diffgr:id="Shipper1" msdata:rowOrder="0"
msdata:hiddenTQSQuote_Id="0">
    <Name />
    <PDArea></PDArea>
    <Address1 />
    <Address2 />
    <City />
    <State></State>
    <Zipcode></Zipcode>
    <Airport></Airport>
    <Attempted></Attempted>
    <PrivateRes></PrivateRes>
    <Hotel></Hotel>
    <Inside></Inside>
    <Liftgate></Liftgate>
    <TwoManHours></TwoManHours>
    <WaitTimeHours></WaitTimeHours>
    <Special></Special>
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    <Canadian></Canadian>
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    <Convention></Convention>
    <Country></Country>
    <IsBeyond></IsBeyond>
    <BeyondServiceArea />
    <Station></Station>
    <AirtrakNo></AirtrakNo>
</Shipper>
    <Consignee diffgr:id="Consignee1"
msdata:rowOrder="0" msdata:hiddenTQSQuote_Id="0">
    <Name />
    <PDArea></PDArea>
    <Address1 />
    <Address2 />
    <City />
```



```
<State></State>
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<TwoManHours></TwoManHours>
<WaitTimeHours></WaitTimeHours>
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<Miles></Miles>
<Canadian></Canadian>
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<Convention></Convention>
<Country></Country>
<IsBeyond></IsBeyond>
<BeyondServiceArea />
<Station></Station>
<AirtrakNo></AirtrakNo>
</Consignee>
<LineItems diffgr:id="LineItems1"
msdata:rowOrder="0" msdata:hiddenTQSQuote_Id="0">
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  <Pieces></Pieces>
  <Weight></Weight>
  <Description></Description>
  <Length></Length>
  <Width></Width>
  <Height></Height>
</LineItems>
<Quote diffgr:id="Quote1" msdata:rowOrder="0"
msdata:hiddenQuote_Id="0" msdata:hiddenTQSQuote_Id="0">
  <Service></Service>
  <DimWeight></DimWeight>
  <TotalQuote></TotalQuote>
  <Oversized></Oversized>

<OversizedServiceArea>""</OversizedServiceArea>
  <AbleToCalculate></AbleToCalculate>
  <ChargeWeight></ChargeWeight>
  <Beyond></Beyond>
  <DisplayService></DisplayService>
  <TopLine></TopLine>

<UpgradeRequiredForServiceArea></UpgradeRequiredForServiceArea>
  <LinkForShipping></LinkForShipping>
  <ExtendedTopLine></ExtendedTopLine>
  <Breakdown diffgr:id="Breakdown1"
msdata:rowOrder="0" msdata:hiddenQuote_Id="0">
    <ChargeCode></ChargeCode>
    <Charge></Charge>
    <BillCodeName></BillCodeName>
    <Steps></Steps>
  </Breakdown>
```

```
msdata:rowOrder="1" msdata:hiddenQuote_Id="0">
    <Breakdown diffgr:id="Breakdown2"
    <ChargeCode></ChargeCode>
    <Charge></Charge>
    <BillCodeName></BillCodeName>
    <Steps></Steps>
    </Breakdown>
  </Quote>
</TQSQuote>
</dsTQSQuote>
<diffgr:before>
  <TQSQuote diffgr:id="TQSQuote1" msdata:rowOrder="0"
  msdata:hiddenTQSQuote_Id="0" xmlns="http://tempuri.org/dsTQSQuote.xsd">
    <QuoteID></QuoteID>
    <TariffID></TariffID>
    <Scale></Scale>
    <LocationID></LocationID>
    <TransportByAir></TransportByAir>
    <CalculateBillCode></CalculateBillCode>
    <IsSaveQuote></IsSaveQuote>
    <IATA_Classifications></IATA_Classifications>
    <PackingContainers></PackingContainers>
    <DeclaredValue></DeclaredValue>
    <InsuranceValue></InsuranceValue>
    <COD>0</COD>
    <TariffName />
    <Notes />
    <Service />
    <QuoteDate></QuoteDate>
    <ChargeWeight></ChargeWeight>
    <TotalPieces></TotalPieces>
    <ShipDate></ShipDate>
    <TariffHeaderID></TariffHeaderID>
    <UserID></UserID>
    <QuoteConfirmationEmail />
    <DebrisRemoval></DebrisRemoval>
    <Gateway></Gateway>
    <IsInternational></IsInternational>
  </TQSQuote>
</diffgr:before>
</diffgr:diffgram>
</dsQuote>
</RateAllServicesResult>
</RateAllServicesResponse>
</soap:Body>
</soap:Envelope>
```

API License Terms

<https://terms.maersk.com/api-license-terms>