

Overview

This API allows customers to enter new shipments into Pilot Freight Services' system once their systems are integrated with ours. The API credentials used in these API calls can be acquired via a valid CoPilot account login with Pilot Freight Services. Once logged in, visit Settings > Web Services to see API key information and documentation.

If a tariff has not been assigned to the CoPilot customer location by the Pilot account manager or Pilot IT, the following message displays in CoPilot: *Please leave ControlStation empty & TariffHeaderID = 0*. The TariffHeaderID and Service fields are used later to set financial tariff key codes that drive the rating of the shipment information. It is important to know what Service codes are valid per customer tariff. The Service codes can be acquired by:

- Calling the Rating API function RateAllServices to see which Service codes come back rated ahead of any Shipment Entry API call.
- Reaching out to the Pilot account manager that would know the customer tariff and what Service levels are available via the customer tariff.

Inactive locations or accounts are not allowed to use our API for Shipment Entry.

Line Items contain a PackageType field that expects certain values. If invalid or empty values are passed in, the default PackageType value becomes BOX.

The following PackageType *string* values are accepted:

BUNDLE
BIN
BOX
BASKET
CASE
CRATE
CARTONS
CONTAINER
DRUM
EACHES
MY PIECE TYPE
ENVELOPE
LETTER
PAILS
PIECES
PALLET
ROLL
SKID
TUBE
TOOL BOX
TOTE
TRUCKLOAD

Getting Started

The following functions can be used:

Function	Description
GetNewShipment (SOAP)	This function may be used to get the object needed to be populated and then used as the input parameter to the Save function in this API.
GetNewVoid (SOAP)	This function may be used to get the object needed to be populated and then used as the input parameter to the Void function in this API.
Save (SOAP/REST)	This function may be used to submit a Shipment to Pilot.
Void (SOAP/REST)	This function may be used to cancel or void a Shipment in Pilot's system. Note: Currently, this function does not immediately change the status of a shipment – it sends out a request to cancel the alert, which is then honored by the handling station. We're working on an update to allow shipment statuses to be changed in real time.

Error Codes

Save Error Code

Condition	Error Code
If an invalid pair of LocationID/AddressID is used	Account or Location not found
If a new Pilot ProNumber value cannot be assigned to the shipment for whatever variety of internal reasoning	Unable to generate HAWB number
If there is an issue saving the shipment to our system	Unable to save shipment. Error: (It lists here the internal error description.)
If Shipper Name is missing	Shipper Name cannot be empty or null.
If Consignee Name is missing	Consignee Name cannot be empty or null
If ControlStation is set to 0	ControlStation cannot be set to 0, this is a 3 character station code, or leave as an empty string
If PayType is set to T but any sort of required information is missing	PayType set to 'T', but missing Third Party (It lists here field values that are missing info;Name, Address1, City, State, Zip, or Country)
If there are missing values in any of the Lineltems	Line Item (LineRow) is missing (lists here field values that are missing info;Pieces,Description,Weight,Length,Width, or Height)

Service-Field-Related Messages Error Code

Condition	Error Code
If Service is null	Service value can not be missing or null.
If Service is empty	Service value can not be an empty value.
If Service is not a valid Service value	Service value is not a valid Service value.

Void Error Code

Condition	Error Code
If the input parameters do not match the original Shipment Entry API call parameters	Shipment Void Failed
If the shipment is not found for some reason in our system	

Shipment Entry API Specification



Endpoints

Live

<http://ws3.pilotdelivers.com/webservice/wsshipments/Shipment.asmx>

Dev/Test

<http://ws3.pilotdelivers.com/webservice/wsshipmentsdev/Shipment.asmx>

REST

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

<https://www.pilotssl.com/pilotapi/v1/Shipments/Void/>

REST Developer Playground

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

WSDL

<http://ws3.pilotdelivers.com/webservice/wsshipments/Shipment.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 the following valid, allowed ID values:

LocationID	Related and established as a key pair when a customer location is added to a customer's CoPilot account.
AddressID	
ControlStation	Either set by a Pilot account manager for the location in use (or it can be left blank, but it usually isn't).
TariffHeaderID	<ul style="list-style-type: none">• Comes directly from and identifies the customer tariff to be used in the Rating of this shipment later on.• Can be set to 0 at any point even if a customer has a valid tariff and TariffHeaderID to use – this will trigger the shipment to not be immediately rated in our system and handled as a Spot quote type of shipment, that is, no tariff is provided.

Shipment Entry API Specification



Resources

Retrieving Data

GetNewShipment (SOAP)

<http://ws3.pilotdelivers.com/webservice/wsshipments/Shipment.asmx?op=GetNewShipment>

GetNewVoid (SOAP)

<http://ws3.pilotdelivers.com/webservice/wsshipments/Shipment.asmx?op=GetNewVoid>

Save (SOAP)

<http://ws3.pilotdelivers.com/webservice/wsshipments/Shipment.asmx?op=Save>

Save (REST)

https://www.pilotssl.com/pilotapi/swagger/ui/index#!/Shipments/Shipments_Post

Void (SOAP)

<http://ws3.pilotdelivers.com/webservice/wsshipments/Shipment.asmx?op=Void>

Void (REST)

https://www.pilotssl.com/pilotapi/swagger/ui/index#!/Shipments/Shipments_VoidShipment

SOAP Response Example

The following SOAP response example object for the function Void is called VoidResult. To get the request object to populate, the function GetNewVoid should be called.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <VoidResponse xmlns="http://tempuri.org/">
      <VoidResult>
        <IsError></IsError>
        <Message></Message>
      </VoidResult>
    </VoidResponse>
  </soap:Body>
</soap:Envelope>
```

The following SOAP response example object for the function Save is called dsResult. To get the request object to populate, the function GetNewShipment should be called.

```
<?xml version="1.0" encoding="utf-8"?>
<soap:Envelope xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema">
  <soap:Body>
    <SaveResponse xmlns="http://tempuri.org/">
      <SaveResult>
        <IsError>>false</IsError>
        <dsResult>
```

```

        <xs:schema id="dsShipment"
targetNamespace="http://tempuri.org/dsShipment.xsd"
xmlns:mstns="http://tempuri.org/dsShipment.xsd"
xmlns="http://tempuri.org/dsShipment.xsd"
xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:msdata="urn:schemas-
microsoft-com:xml-msdata" attributeFormDefault="qualified"
elementFormDefault="qualified">
        <xs:element name="dsShipment" msdata:IsDataSet="true"
msdata:UseCurrentLocale="true">
                <xs:complexType>
                        <xs:choice minOccurs="0" maxOccurs="unbounded">
                                <xs:element name="Shipment">
                                        <xs:complexType>
                                                <xs:sequence>
                                                        <xs:element name="QuoteID"
type="xs:int" default="0" minOccurs="0" />
                                                        <xs:element name="LocationID"
type="xs:int" default="0" minOccurs="0" />
                                                        <xs:element
name="TransportByAir" type="xs:boolean" default="false" />
                                                        <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" default="0" minOccurs="0" />
                                                        <xs:element name="COD"
type="xs:double" default="0" minOccurs="0" />
                                                        <xs:element name="TariffID"
type="xs:int" minOccurs="0" />
                                                        <xs:element name="TariffName"
type="xs:string" minOccurs="0" />
                                                        <xs:element name="TariffCode"
type="xs:string" minOccurs="0" />
                                                        <xs:element name="Notes"
type="xs:string" minOccurs="0" />
                                                        <xs:element name="Service"
type="xs:string" minOccurs="0" />
                                                        <xs:element
name="AirtrakServiceCode" type="xs:string" minOccurs="0" />
                                                        <xs:element
name="TariffExtension" type="xs:string" minOccurs="0" />
                                                        <xs:element name="QuoteDate"
type="xs:dateTime" minOccurs="0" />
                                                        <xs:element
name="HoldAtAirport" type="xs:boolean" default="false" minOccurs="0" />
                                                        <xs:element
name="ControlStation" type="xs:string" minOccurs="0" />
                                                        <xs:element name="ProNumber"
type="xs:string" default="" minOccurs="0" />
                                                        <xs:element
name="ConsigneeAttn" type="xs:string" minOccurs="0" />
                                                        <xs:element
name="ThirdPartyAuth" type="xs:string" minOccurs="0" />
                                                        <xs:element name="ShipperRef"
type="xs:string" minOccurs="0" />

```

Shipment Entry API Specification



```
type="xs:string" minOccurs="0" />
type="xs:string" minOccurs="0" />
name="AmountDueConsignee" type="xs:decimal" default="0" minOccurs="0" />
type="xs:dateTime" minOccurs="0" />
type="xs:boolean" minOccurs="0" />
type="xs:string" minOccurs="0" />
type="xs:boolean" default="false" minOccurs="0" />
type="xs:boolean" default="false" minOccurs="0" />
name="SpecialInstructions" type="xs:string" minOccurs="0" />
type="xs:dateTime" minOccurs="0" />
type="xs:dateTime" minOccurs="0" />
type="xs:string" minOccurs="0" />
type="xs:int" default="0" minOccurs="0" />
type="xs:dateTime" minOccurs="0" />
type="xs:int" minOccurs="0" />
type="xs:dateTime" minOccurs="0" />
type="xs:int" minOccurs="0" />
type="xs:boolean" minOccurs="0" />
type="xs:boolean" default="false" minOccurs="0" />
type="xs:boolean" default="false" minOccurs="0" />
type="xs:boolean" default="false" minOccurs="0" />
type="xs:string" minOccurs="0" />
type="xs:string" minOccurs="0" />
name="TariffHeaderID" type="xs:int" default="0" minOccurs="0" />
type="xs:string" minOccurs="0" />
name="ProductDescription" type="xs:string" minOccurs="0" />
name="DebrisRemoval" type="xs:boolean" minOccurs="0" />
name="IsScreeningConsent" type="xs:string" minOccurs="0" />
<xs:element name="ConsigneeRef"
<xs:element name="DeliveryDate"
<xs:element
<xs:element name="ShipDate"
<xs:element name="OverSized"
<xs:element name="PayType"
<xs:element name="POD"
<xs:element name="SatDelivery"
<xs:element
<xs:element name="ReadyTime"
<xs:element name="CloseTime"
<xs:element name="HomeDelivery"
<xs:element name="ShipmentID"
<xs:element name="LockDate"
<xs:element name="LockUser"
<xs:element name="LastUpdate"
<xs:element name="AddressID"
<xs:element name="Platinum"
<xs:element name="IsShipper"
<xs:element name="GBL"
<xs:element name="IsInsurance"
<xs:element name="Condition"
<xs:element name="Packaging"
<xs:element
<xs:element name="ProductName"
<xs:element
<xs:element
<xs:element
```

Shipment Entry API Specification



```
type="xs:string" default="" minOccurs="0" />
name="EmailConfirmation" type="xs:boolean" default="false" minOccurs="0" />
type="xs:string" minOccurs="0" />
type="xs:boolean" minOccurs="0" />
type="xs:string" minOccurs="0" />
type="xs:string" minOccurs="0" />
type="xs:string" minOccurs="0" />
name="IsDistribution" type="xs:boolean" default="false" minOccurs="0" />
name="DeliveryStartTime" type="xs:string" minOccurs="0" />
name="AirtrakQuoteNo" type="xs:long" default="0" minOccurs="0" />
minOccurs="0" maxOccurs="unbounded">
    <xs:complexType>
        <xs:sequence>
            <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
            <xs:element
name="Name" type="xs:string" minOccurs="0" />
            <xs:element
name="Address1" type="xs:string" default="" minOccurs="0" />
            <xs:element
name="Address2" type="xs:string" default="" minOccurs="0" />
            <xs:element
name="Address3" type="xs:string" default="" minOccurs="0" />
            <xs:element
name="City" type="xs:string" minOccurs="0" />
            <xs:element
name="State" type="xs:string" minOccurs="0" />
            <xs:element
name="Zipcode" type="xs:string" minOccurs="0" />
            <xs:element
name="Country" type="xs:string" minOccurs="0" />
            <xs:element
name="Airport" type="xs:string" minOccurs="0" />
            <xs:element
name="Owner" type="xs:string" minOccurs="0" />
            <xs:element
name="Attempted" type="xs:boolean" default="false" minOccurs="0" />
            <xs:element
name="PrivateRes" type="xs:boolean" default="false" minOccurs="0" />
            <xs:element
name="Hotel" type="xs:boolean" default="false" minOccurs="0" />
            <xs:element
name="Inside" type="xs:boolean" default="false" minOccurs="0" />
            <xs:element
name="Liftgate" type="xs:boolean" default="false" minOccurs="0" />
        
```

Shipment Entry API Specification



```
name="TwoManHours" type="xs:double" default="0" minOccurs="0" />
name="WaitTimeHours" type="xs:double" default="0" minOccurs="0" />
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="Contact" type="xs:string" minOccurs="0" />
name="Phone" type="xs:string" minOccurs="0" />
name="Extension" type="xs:string" minOccurs="0" />
name="Email" type="xs:string" minOccurs="0" />
name="SendEmail" type="xs:boolean" default="false" minOccurs="0" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="Consignee"
minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence>
      <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
      <xs:element
name="Name" type="xs:string" minOccurs="0" />
      <xs:element
name="Address1" type="xs:string" default="" minOccurs="0" />
      <xs:element
name="Address2" type="xs:string" default="" minOccurs="0" />
      <xs:element
name="Address3" type="xs:string" default="" minOccurs="0" />
      <xs:element
name="City" type="xs:string" minOccurs="0" />
      <xs:element
name="State" type="xs:string" minOccurs="0" />
      <xs:element
name="Zipcode" type="xs:string" minOccurs="0" />
      <xs:element
name="Country" type="xs:string" minOccurs="0" />
      <xs:element
name="Airport" type="xs:string" minOccurs="0" />
      <xs:element
name="Owner" type="xs:string" minOccurs="0" />
```


Shipment Entry API Specification



```
name="Attempted" type="xs:boolean" default="false" minOccurs="0" />
name="PrivateRes" type="xs:boolean" default="false" minOccurs="0" />
name="Hotel" type="xs:boolean" default="false" minOccurs="0" />
name="Inside" type="xs:boolean" default="false" minOccurs="0" />
name="Liftgate" type="xs:boolean" default="false" minOccurs="0" />
name="TwoManHours" type="xs:double" default="0" minOccurs="0" />
name="WaitTimeHours" type="xs:double" default="0" minOccurs="0" />
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="Contact" type="xs:string" minOccurs="0" />
name="Phone" type="xs:string" minOccurs="0" />
name="Extension" type="xs:string" minOccurs="0" />
name="Email" type="xs:string" minOccurs="0" />
name="SendEmail" type="xs:boolean" default="false" minOccurs="0" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="ThirdParty"
minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
<xs:element
name="Name" type="xs:string" minOccurs="0" />
<xs:element
name="Address1" type="xs:string" default="" minOccurs="0" />
<xs:element
name="Address2" type="xs:string" default="" minOccurs="0" />
<xs:element
name="Address3" type="xs:string" default="" minOccurs="0" />
<xs:element
name="City" type="xs:string" minOccurs="0" />
```

Shipment Entry API Specification



```
name="State" type="xs:string" minOccurs="0" />
name="Zipcode" type="xs:string" minOccurs="0" />
name="Country" type="xs:string" minOccurs="0" />
name="Contact" type="xs:string" minOccurs="0" />
name="Phone" type="xs:string" minOccurs="0" />
name="Extension" type="xs:string" minOccurs="0" />
name="Email" type="xs:string" minOccurs="0" />
name="SendEmail" type="xs:boolean" default="false" minOccurs="0" />
</xs:sequence>
</xs:complexType>
</xs:element>
<xs:element name="LineItems"
minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence>
      <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
      <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:element
name="Kilos" type="xs:int" default="0" minOccurs="0" />
      <xs:element
name="PackageType" type="xs:string" default="" minOccurs="0" />
    </xs:sequence>
  </xs:complexType>
</xs:element>
<xs:element name="Quote"
minOccurs="0" maxOccurs="unbounded">
  <xs:complexType>
    <xs:sequence>
      <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
      <xs:element
name="Service" type="xs:string" minOccurs="0" />
      <xs:element
name="DimWeight" type="xs:int" default="0" minOccurs="0" />
```

Shipment Entry API Specification



```

name="TotalQuote" type="xs:double" default="0" minOccurs="0" />
name="Oversized" type="xs:boolean" default="false" minOccurs="0" />
name="AbleToCalculate" type="xs:boolean" default="false" minOccurs="0" />
name="ChargeWeight" type="xs:int" default="0" minOccurs="0" />
name="Beyond" type="xs:boolean" default="false" minOccurs="0" />
name="DisplayService" type="xs:string" default="" />
name="TopLine" type="xs:double" default="0" minOccurs="0" />
name="UpgradeRequiredForServiceArea" type="xs:boolean" default="false"
minOccurs="0" />
name="LinkForShipping" type="xs:string" minOccurs="0" />
name="Breakdown" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:element name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
<xs:element name="ChargeCode" type="xs:int" minOccurs="0" />
<xs:element name="Charge" type="xs:double" minOccurs="0" />
<xs:element name="BillCodeName" type="xs:string" minOccurs="0" />
</xs:sequence>
</xs:complexType>
name="InternationalServices" minOccurs="0" maxOccurs="unbounded">
<xs:complexType>
<xs:sequence>
<xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
name="ShipmentType" type="xs:string" minOccurs="0" />
name="Service" type="xs:string" minOccurs="0" />
name="Incoterms" type="xs:string" minOccurs="0" />
name="CustomsValue" type="xs:string" minOccurs="0" />
</xs:sequence>

```

```
        </xs:complexType>
    </xs:element>
    <xs:element
name="International" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
            <xs:sequence>
                <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
                <xs:element
name="USPPI_EIN" type="xs:string" minOccurs="0" />
                <xs:element
name="PartiesToTransaction" type="xs:boolean" minOccurs="0" />
                <xs:element
name="IntermediateConsignee" type="xs:string" minOccurs="0" />
                <xs:element
name="MethodOfTransportation" type="xs:string" minOccurs="0" />
                <xs:element
name="ConsolidateOrDirect" type="xs:boolean" minOccurs="0" />
                <xs:element
name="ShipmentReferenceNumber" type="xs:string" minOccurs="0" />
                <xs:element
name="EntryNumber" type="xs:string" minOccurs="0" />
                <xs:element
name="InBondCode" type="xs:string" minOccurs="0" />
                <xs:element
name="RoutedExportTransaction" type="xs:boolean" minOccurs="0" />
                <xs:element
name="LicenseNumber" type="xs:string" minOccurs="0" />
                <xs:element
name="ECCN" type="xs:string" minOccurs="0" />
                <xs:element
name="HazMat" type="xs:boolean" minOccurs="0" />
                <xs:element
name="LicenseValue" type="xs:string" minOccurs="0" />
                <xs:element
name="InBondCodeValue" type="xs:string" minOccurs="0" />
                <xs:element
name="MethodOfTransportationValue" type="xs:string" minOccurs="0" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element
name="OtherReferences" minOccurs="0" maxOccurs="unbounded">
        <xs:complexType>
            <xs:sequence>
                <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
                <xs:element
name="Reference" type="xs:string" minOccurs="0" />
                <xs:element
name="ReferenceType" type="xs:string" minOccurs="0" />
            </xs:sequence>
        </xs:complexType>
    </xs:element>
    <xs:element
name="ScheduleBLines" minOccurs="0" maxOccurs="unbounded">
```

```

                                <xs:complexType>
                                    <xs:sequence>
                                        <xs:element
name="ScheduleBID" type="xs:int" minOccurs="0" />
                                        <xs:element
name="ShipmentID" type="xs:int" default="0" minOccurs="0" />
                                        <xs:element
name="ScheduleBLine" type="xs:int" default="0" minOccurs="0" />
                                        <xs:element
name="DForM" type="xs:string" minOccurs="0" />
                                        <xs:element
name="ScheduleBNumber" type="xs:string" minOccurs="0" />
                                        <xs:element
name="Quantity" type="xs:string" minOccurs="0" />
                                        <xs:element
name="Weight" type="xs:int" minOccurs="0" />
                                        <xs:element
name="VinNumber" type="xs:string" minOccurs="0" />
                                        <xs:element
name="DollarValue" type="xs:string" default="0" minOccurs="0" />
                                        <xs:element
name="ScheduleBCode" type="xs:string" default="0" minOccurs="0" />
                                    </xs:sequence>
                                </xs:complexType>
                            </xs:element>
                        <xs:element
name="ShipmentCustomerInfo" minOccurs="0" maxOccurs="unbounded">
                            <xs:complexType>
                                <xs:sequence>
                                    <xs:element
name="User_Email" type="xs:string" minOccurs="0" />
                                    <xs:element
name="User_Name" type="xs:string" default="" minOccurs="0" />
                                    <xs:element
name="User_Phone" type="xs:string" default="" minOccurs="0" />
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</xs:schema>
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</diffgr:diffgram>

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Shipment Entry API Specification



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  <WaitTimeHours></WaitTimeHours>
  <Special />
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```

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</SaveResult>
</SaveResponse>
</soap:Body>
</soap:Envelope>
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API License Terms

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