API – Auto Pickup

Documentation

Version 1

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Introduction

The Cerasis XML Web Service Interface provides a subset of capabilities by way of XML web services. By using the web services, customers can integrate their existing systems with our LTL rating engine. While not all features are available, the following functionality is currently supported:

- **AutoPickup**
  - **SchedulePickup**
  - **CheckPickupStatus**

Who is this document for?

- This document is meant as a programmer-to-programmer document. This document assumes you are familiar with XML, web services, SOAP architecture, and other computer-related technologies.

What is required to interface with Cerasis Web Services?

- To interface with the web services, customers are required to know their ShipperID, Username, and Password. In addition, each shipper will be assigned an XML Access Key that is required when communicating with any Cerasis web service.

How does the process works?

- Initially, a customer wanting to use the XML web services will be established in our development environment. This allows the customer to write all the applicable interfaces as well as test the integration. Once testing is complete and certification has been completed, the customer will be set up in production and can begin using the XML web services.

What web service technologies are supported?

Cerasis currently supports SOAP 1.1 and 1.2.

Common Structures

AccessRequest

All webservice calls will require the AccessRequest object. This object is used as authentication to the XML engine.

```
<AccessRequest>
  <ShipperID>string</ShipperID>
  <Username>string</Username>
  <Password>string</Password>
  <AccessKey>string</AccessKey>
</AccessRequest>
```

Field Name	Data Type	Req/ Opt	Description
ShipperID	String	Req	Your ShipperID, the same used to log into the LTL Rater
Username	String	Req	Your Username, the same used to log into the LTL Rater
Password	String	Req	Your Password, the same used to log into the LTL Rater
AccessKey	string	Req	The AccessKey is a unique ID used only by your shipper. Cerasis currently uses a GUID as the AccessKey. The AccessKey is also unique to each environment: one key is used for development and a different one for production.

Accessorials

The Accessorials object is a collection of accessorials used by the LTL Rater.

```
<Accessorials>
  <Accessorial>
    <AccessorialCode>string</AccessorialCode>
  </Accessorial>
  <Accessorial>
    <AccessorialCode>string</AccessorialCode>
  </Accessorial>
</Accessorials>
```

Field Name	Data Type	Req/ Opt	Description
Accessorial	Object	Opt	
- AccessorialCode	String	Req	Code of Accessorial

Address

The OriginAddress and the DestinationAddress objects are used throughout the XML API. These structures apply to Origin and Destination address fields respectively. For documentation purposes, the OriginAddress, rather than DestinationAddress, is used here.

```
<DestinationAddress>
  <Name>string</Name>
  <Address1>string</Address1>
  <Address2>string</Address2>
  <Address3>string</Address3>
  <City>string</City>
  <State>string</State>
  <PostalCode>string</PostalCode>
  <Country>string</Country>
  <Contact>string</Contact>
  <EmailAddress>string</EmailAddress>
  <Fax>string</Fax>
  <Phone>string</Phone>
  <Reference>string</Reference>
  <ResidentialDelivery>boolean</ResidentialDelivery>
  <EmergencyContactName>string</EmergencyContactName>
  <EmergencyContactNumber>string</EmergencyContactNumber>
  <EmergencyAgentContractNumber>string</EmergencyAgentContractNumber>
</DestinationAddress>
```

Field Name	Data Type	Req/ Opt	Description
Name	String	Opt	Name, typically the business name
Address1	String	Req	Address Line 1
Address2	String	Opt	Address Line 2
Address3	String	Opt	Address Line 3
City	String	Req	City
State	String	Req	State
PostalCode	String	Req	Postal Code, must be 5 digits for US addresses and 6 digits for Canadian addresses. Currently, Zip+4 is not supported
Country	String	Req	Country, US or CA
Contact	String	Opt	Name of contact person at address
EmailAddress	String	Opt	Email address of contact
Phone	String	Opt	Phone of location
Reference	String	Opt	Any reference for location.
ResidentialDelivery	Boolean	Opt	Whether the address is residence. True is a residence, False is not a residence.

EmergenyContactNumber	String	Opt**	Phone# of their emergency response provider
EmergencyContactName	String	Opt**	Name of their emergency response provider
EmergencyAgentContactNumber	String	Opt**	Contract number for the contract with their emergency response provider

** Only need to be entered for the OriginAddress

Details

The Details Object contains the line item details needed to rate or ship a shipment. When submitting a rating request, the Commodity portion will be ignored.

```
<Details>
  <Detail>
    <Class>string</Class>
    <Weight>double</Weight>
    <Quantity>int</Quantity>
    <Height>int</Height>
    <Length>int</Length>
    <Width>int</Width>
    <Unit>string</Unit>
    <Hazmat>boolean</Hazmat>
    <Commodity>
      <Description>string</Description>
      <NMFCCode>string<NMFCCode>
      <Class>double</Class>
      <HazardousMaterial>boolean</HazardousMaterial>
      <HazmatDescription1>string</HazmatDescription1>
      <HazmatDescription2>string</HazmatDescription2>
      <HazmatDescription3>string</HazmatDescription3>
      <HazmatClass>string</HazmatClass>
      <HazmatSubClass>string</HazmatSubClass>
      <HazMatPackagingClass>string</HazMatPackagingClass>
      <HazmatTechnicalName>string</HazmatTechnicalName>
      <HazmatZone>string</HazmatZone>
      <HazmatDetailDescription>string</HazmatDetailDescription>
      <HazmatSpecialProvision>string</HazmatSpecialProvision>
      <HazmatSpecialProvExpDate>string</HazmatSpecialProvExpDate>
      <UNIdentificationNumber>string</UNIdentificationNumber>
      <ERGGuidePage>string</ERGGuidePage>
      <ContactName>string</ContactName>
      <ContactNumber>string</ContactNumber>
      <BolDescription1>string</BolDescription1>
      <BolDescription2>string</BolDescription2>
```



```
            <BolDescription3>string</BolDescription3>
          </Commodity>
        </Detail>
      </Details>
```

Field Name	Data Type	Req/ Opt	Description
Class	String	Req	Class of shipment. Classes are: - 50 - 55 - 60 - 65 - 70 - 77.5
			- 85 - 92.5 - 100 - 110 - 125 - 150 - 175 - 200 - 250 - 300 - 400 - 500
Weight	Double	Req	Weight of item
Quantity	Int	Req	Quantity of line item
Height*	Integer	Opt	Height of the item
Length*	Integer	Opt	Length of the item
Width*	Integer	Opt	Width of the item
Unit	String	Opt	Packaging type: can include Pallet, Box, Drum, etc.
Hazmat	Boolean	Req	True **if one or more items in the** shipment is hazardous; False if not.
Commodity	Object	Opt	
- Description	String	Req	Description of Commodity
- NMFCCode	String	Req	NMFC code
- Class	String	Req	Commodity Class
- HazardousMaterial	Boolean	Opt	True if hazardous, false if not
- HazmatDescription1	String	Opt	Hazmat description field
- HazmatDescription2	String	Opt	Hazmat description field

-	HazmatDescription3	String	Opt	Hazmat description field
-	HazmatClass	String	Req**	Hazardous Class or Division
-	HazmatSubClass	String	Opt	Subsidiary Hazardous class
-	HazmatPackagingClass	String	Req**	Packaging Group
-	HazmatTechnicalName	String	Opt	Technical name of commodity
-	HazmatZone	String	Opt	Hazardous Zone (If Applicable)
-	HazmatDetailDescription	String	Req**	Detailed Description
-	HazmatSpecialProvision	String	Opt	Special Permits or Provisions
-	HazmatSpecialProvExpDate	String	Opt	Permit/Provision expiration date
-	UNIdentificationNumber	String	Req**	UN Identification Number
-	BOLDescription1	String	Opt	BOL Description
-	BOLDescription2	String	Opt	BOL Description
-	BOLDescription3	String	Opt	BOL Description

* *Not* used for rating. These are informational only on the BOL for each line.

** Field is required only if HazardousMaterial field is True. These fields are required by the Department of Transportation to be filled in correctly. It is the responsibility of the shipper to properly document all hazardous material.

Dimensions

The Dimension object is used when volume rating is needed. Volume rating only applies to certain carriers within the LTL Rater. The dimension object is used for giving the dimensions of all units with a given shipment. For example, regulations for shipping Hazmat material requires each item be placed on a separate detail line, even if all items fit on one pallet. In this case, the dimension object is used to specify the dimensions of the pallet.

```
<Dimensions>
  <Dimension>
    <Quantity>int</Quantity>
    <Height>double</Height>
    <Width>double</Width>
    <Length>double</Length>
  </Dimension>
  <Dimension>
    <Quantity>int</Quantity>
    <Height>double</Height>
    <Width>double</Width>
    <Length>double</Length>
  </Dimension>
</Dimensions>
```

Field Name	Data Type	Req/ Opt	Description

Dimension	Object	Req	
- Quantity	Int	Req	Quantity of items meeting HxWxL
- Height	Double	Req	Height of item
- Width	Double	Req	Width of item
- Length	Double	Req	Length of item

Web Services

CheckPickupStatus

CheckPickupStatus allows the user to check the pickup status of a previously created shipment.

Request

```
<CheckPickupStatusRequest>
  <AccessRequest>
    <ShipperID>string</ShipperID>
    <Username>string</Username>
    <Password>string</Password>
    <AccessKey>string</AccessKey>
  </AccessRequest>
  <BillNumber>string</BillNumber>
</CheckPickupStatusRequest>
```

Field Name	Data Type	Req/ Opt	Description
AccessRequest	Object	Req	Please refer to the AccessRequest.
BillNumber	String	Req	The Shipment Bill Number to be checked.

Response

```
<CheckPickupStatusResponse>
  <Error>
    <Code>int</Code>
    <Message>string</Message>
  </Error>
  <PickupNotes>string</PickupNotes>
  <Confirmed>boolean</Confirmed>
  <ProcessedDateTime>dateTime</ProcessedDateTime>
  <Processed>boolean</Processed>
  <BillNumber>string</BillNumber>
  <ConfirmedDateTime>dateTime</ConfirmedDateTime>
</CheckPickupStatusResponse>
```

Field Name	Data Type	Description
Error	Object	The Error object will return 0 if successful, otherwise it will

		return an error code along with an error message. (See Below)
ConfirmedDateTime	DateTime	The date and time on which the shipment pickup was confirmed by the carrier, if applicable.
PickupNotes	String	Additional information about the pickup.
Confirmed	Boolean	Whether or not the pickup was confirmed.
ProcessedDateTime	DateTime	The date and time on which the shipment pickup request was processed by the carrier, if applicable.
Processed	Boolean	Whether or not the pickup request was processed.
Bill Number	String	Should match the shipment bill number in the request.

Error Codes

Error Code	Error Message
1051	Invalid XML Access Credentials
1052	No bill number supplied
1053	Unable to load auto pickup information

SchedulePickup

This web service allows customers to schedule pickups via the XML interface. When processing via the interface, attention must be paid to certain elements of the data structure.

Request

```
<SchedulePickupRequest>
  <AccessRequest>
    <ShipperID>string</ShipperID>
    <Username>string</Username>
    <Password>string</Password>
    <AccessKey>string</AccessKey>
  </AccessRequest>
  <CloseTime>int</CloseTime>
  <ReadyTime>int</ReadyTime>
  <ContactPhone>string</ContactPhone>
  <ContactName>string</ContactName>
  <PickupDateTime>dateTime</PickupDateTime>
  <BillNumber>string</BillNumber>
```



```
    </SchedulePickupRequest>
```

Field Name	Data Type	Req/ Opt	Description
CloseTime	Int	Req	Military time representation of the close time (ex: 1700 = 5:00PM)
ReadyTime	Int	Req	Military time representation of the ready time
ContactPhone	String	Req	The contact phone number
ContactName	String	Req	The contact name
PickupDateTime	DateTime	Req	The date and time for which the pickup is being requested
Bill Number	String	Req	The bill number for the shipment to be picked up.
AccessRequest	Object	Req	Please refer to the AccessRequest section.

Response

```
    <SchedulePickupResponse>
      <Error>
        <Code>int</Code>
        <Message>string</Message>
      </Error>
      <ProcessedDateTime>dateTime</ProcessedDateTime>
      <Processed>boolean</Processed>
      <BillNumber>string</BillNumber>
    </SchedulePickupResponse>
```

Error	Object	The Error object will return 0 if successful, otherwise it will return an error code along with an error message. (See Below)
ProcessedDateTime	DateTime	The date and time on which the shipment pickup request was processed by the carrier, if applicable.
Processed	Boolean	Whether or not the pickup request was processed.
Bill Number	String	Should match the shipment bill number in the request.

Error Codes

Error Code	Error Message
1051	Invalid XML Access Credentials
1052	Shipment Bill Number not found
1053	Shipment has already been invoiced
1054	Shipment has been voided
1055	Carrier not supported for Auto Pickup Request
1056	Shipment has been processed by Carrier
1057	Cannot schedule for previous day shipments
1058	Demo shipper shipments cannot be scheduled
1059	Auto Pickup not applicable for shipments on the weekend
1060	Auto Pickup not applicable for shipments on holidays
1061	Shipper Auto Pickup Ready Time must be greater than 800
1062	Shipper Auto Pickup Close Time must be less than 1700
1063	Carrier minimum notification time not met
1064	There must be at least a 3-hour window between the current time and the pickup close time
1065	There must be at least a 2-hour window between the pickup early time and pickup close time
1066	Contact Name Not Supplied
1067	Contact Phone Not Supplied
1068	Bill Number Not Supplied
1069	Auto pickup already scheduled
1499	Transaction Limit Exceeded

Website Location

Web Service Addresses

https://dev.ltlship.com/API/Shipping/V1/Shipping.asmx	- CheckPickupStatus - SchedulePickup