

OLD DOMINION FREIGHT LINE, INC.

BOOK HOUSEHOLD MOVE API DEVELOPMENT GUIDE



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Getting Started

Overview

The Book Household Move API is a SOAP service which gives you the ability to schedule home moving services.

Step 1: Use our Rating API to request Household Move pricing and a Rate Reference Number.

Step 2: Provide the Rate Reference Number when booking your Household Move.

Testing

When you're ready to begin testing the API connection, visit Shipping API Integrations and click [Email an Expert](#) for assistance.

Authentication

To use this service, you will need an ODFL.com account with a username and password. This grants you access to data for your specific accounts. Visit our website at ODFL.com and click [Sign Up](#) to register.

Have questions about your OD account? We're here to help, Monday-Friday, 7 a.m. – 8 p.m. ET:

- Telephone: 1-800-235-5569
- Email: Internet.CustomerService@odfl.com

Response

Code	Message	Notes
200	Odf14meUser or Odf14mePassword is not valid	Verify your username and password and try again. Passwords are case sensitive. If you continue to experience issues, contact Customer Service.

Rate Request

Request a rate estimate and receive a rate reference number to use when booking your household move.

Authorization

Provide the Username and Password in the Request body:

```
<odfl4MeUser>MyUsername</odfl4MeUser>
```

```
<odfl4MePassword>MyPassword</odfl4MePassword>
```

Base Path

Environment	URL
Production	https://www.odfl.com/wsRate_v6/RateService

Fields

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
dropDateTime	The requested Drop Date (YYYY-MM-DD). If the dropDateTime provided is a weekend or holiday, additional charges will be applied.	ISO-8601			Yes	
linearFeet	The linear feet of the shipment.	Integer			Yes	

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
odfl4MePassword	Your ODFL.com password.	String			Yes	
odfl4MeUser	Your ODFL.com username.	String			Yes	
odflCustomerAccount	Your OD BillTo account number. Used in combination with movement to calculate pricing based on your negotiated rates.	Long			No	
originCountry	The origin country code.	String	3	3	No	USA
originPostalCode	The origin postal code.	String	5	6	Yes	
destinationCountry	The destination country.	String	3	3	No	USA
destinationPostalCode	The destination postal code.	String	5	6	Yes	
requestReferenceNumber	Indicates whether a reference number for the rate provided will be included in the response.	Boolean			No	false
Tariff	Must be 688 for household moving rate requests.	Integer			Yes	

Sample

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:myr="http://myRate.ws.odfl.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <myr:getHomeMoveRateEstimate>
      <arg0>
        <dropDateTime>2025-10-22</dropDateTime>
        <linearFeet>14</linearFeet>
        <odfl4MeUser>MyUsername</odfl4MeUser>
        <odfl4MePassword>MyPassword</odfl4MePassword>
        <odflCustomerAccount></odflCustomerAccount>
        <originCountry>USA</originCountry>
        <originPostalCode>12301</originPostalCode>
        <destinationCountry>USA</destinationCountry>
        <destinationPostalCode>21401</destinationPostalCode>
        <requestReferenceNumber>true</requestReferenceNumber>
        <tariff>688</tariff>
      </arg0>
    </myr:getHomeMoveRateEstimate>
  </soapenv:Body>
</soapenv:Envelope>
```

Rate Response

Field	Definition	Data Type
destinationCities.name	The city name of the destination.	String
destinationCities.serviceDays	Add 1 and 3 days to the value returned to calculate the transit window ex. if serviceDays = 1, the transit window is 2 to 4 days.	Integer
destinationInterlineCarrierName		String
destinationInterlineScac		String
destinationServiceCenter.address	The street address of the OD destination service center.	String
destinationServiceCenter.alphaCode	The three-character alpha code of the OD destination service center.	String
destinationServiceCenter.cityStateZip	The city, state, and postal code of the OD destination service center.	String
destinationServiceCenter.country	The country code of the OD destination service center.	String
destinationServiceCenter.emailAddress	The email address of the OD destination service center.	String
destinationServiceCenter.fax	The fax number of the OD destination service center.	String
destinationServiceCenter.manager	The first and last name of the manager of the OD destination service center.	String
destinationServiceCenter.name	The name of the OD destination service center.	String
destinationServiceCenter.phone	The telephone number of the OD destination service center.	String
errorMessages	See Response Codes below for examples.	String
originatingInterlineCarrierName		String
originatingInterlineScac		String
originatingServiceCenter.address	The street address of the OD origin service center.	String
originatingServiceCenter.alphaCode	The three-character alpha code of the ODFL origin service center.	String

Field	Definition	Data Type
originatingServiceCenter.cityStateZip	The city, state, and postal code of the OD origin service center.	String
originatingServiceCenter.country	The country code of the OD origin service center.	String
originatingServiceCenter.emailAddress	The email address of the OD origin service center.	String
originatingServiceCenter.fax	The fax number of the OD origin service center.	String
originatingServiceCenter.manager	The first and last name of the manager of the OD origin service center.	String
originatingServiceCenter.name	The name of the OD origin service center.	String
originatingServiceCenter.phone	The telephone number of the OD origin service center.	String
referenceNumber	The reference number for the rate request.	String
success	An indicator of whether the request for rates was successful.	Boolean
rateEstimate.accessorialCharges.amount	The monetary value of the accessorial included in the rate request.	Decimal
rateEstimate.accessorialCharges.description	The description of the accessorial included in the rate request.	String
rateEstimate.discountAmount	The monetary value of the freight charge discount based on the value provided in discount in the rate request.	Decimal
rateEstimate.discountPercentage	The discount percentage provided in the rate request.	Decimal
rateEstimate.discountedFreightCharge	The monetary value of freight charges including discounts.	Decimal
rateEstimate.fuelSurcharge	The monetary value of fuel surcharges.	Decimal
rateEstimate.grossFreightCharge	The monetary value of the gross freight charge.	Decimal
rateEstimate.guaranteedServiceOption	Contact Household Services at HouseholdServices@odfl.com to confirm guaranteed rates and service availability.	Decimal
rateEstimate.internationalCharge	The monetary value of international charges (if applicable).	Decimal

Field	Definition	Data Type
rateEstimate.netFreightCharge	The monetary value of net freight charges.	Decimal
rateEstimate.totalAccessorionalCharge	The total monetary value of all accessorials included in the rate request.	Decimal
rateEstimate.variableAccessorionalRate	An indicator of whether any of the services provided in the request included variable costs.	Decimal

Response Codes

Message	Details
Move date is invalid.	Verify you provided a value in dropDateTime.
Minimum Home Moving Date Allowed is MM/DD/YY.	The dropDateTime must be greater than MM/DD/YY provided in the response.
Origin location not allowed for Tariff 688	Household move estimates must be for postal codes within the continental United States.
Unexpected error running rate request, please try again later	Please resubmit your rate request. If the problem persists, please notify us at Internet.CustomerService@odfl.com.
Linear Feet must be within range 3-56	
Origin Terminal not found	Verify the originPostalCode and originCountry and try again.
Destination Terminal not found	Verify the destinationPostalCode and destinationCountry and try again.
At least one weight required	Verify the tariff you provided in the request is "688".
Origin Postal Code exceeds maximum length of 6	Verify the originPostalCode and try again.
Destination Postal Code exceeds maximum length of 6	Verify the destinationPostalCode and try again.

Sample

```
<soapenv:Envelope xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header>
    <work:WorkContext xmlns:work="http://oracle.com/weblogic/soap/workarea/">
  </soapenv:Header>
  <soapenv:Body>
    <ns2:getHomeMoveRateEstimateResponse xmlns:ns2="http://myRate.ws.odfl.com/">
      <return>
        <destinationCities>
          <name>ANNAPOLIS</name>
          <serviceDays>1</serviceDays>
        </destinationCities>
        <destinationInterlineCarrierName/>
        <destinationInterlineScac/>
        <destinationServiceCenter>
          <address>2301 Hawkins Point Rd.</address>
          <alphaCode>BAL</alphaCode>
          <cityStateZip>Curtis Bay, MD 21226</cityStateZip>
          <country>USA</country>
          <emailAddress>abc@odfl.com</emailAddress>
          <fax>Fax: (800) 555-1212</fax>
          <manager>Manager: Joseph Smith</manager>
          <name>BALTIMORE, MD - BAL</name>
          <phone>Phone: (800) 555-1212</phone>
        </destinationServiceCenter>
        <originatingInterlineCarrierName/>
        <originatingInterlineScac/>
        <originatingServiceCenter>
          <address>11 7th Street</address>
          <alphaCode>ALB</alphaCode>
          <cityStateZip>Glennville, NY 12302</cityStateZip>
          <country>USA</country>
          <emailAddress>abc@odfl.com</emailAddress>
          <fax>Fax: (800) 555-1212</fax>
          <manager>Manager: George Smith</manager>
          <name>ALBANY, NY - ALB</name>
          <phone>Phone: (800) 555-1212</phone>
        </originatingServiceCenter>
        <referenceNumber>123456789</referenceNumber>
        <success>true</success>
        <rateEstimate>
          <accessorialCharges>
            <amount>500.00</amount>
            <description>OD HOUSEHOLD SVC-WEEKEND/HOLIDAY</description>
          </accessorialCharges>
          <discountAmount>0.00</discountAmount>
        </rateEstimate>
      </return>
    </ns2:getHomeMoveRateEstimateResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

```
<discountPercentage>0.00</discountPercentage>
<discountedFreightCharge>1824.00</discountedFreightCharge>
<fuelSurcharge>764.00</fuelSurcharge>
<grossFreightCharge>1824.00</grossFreightCharge>
<guaranteedServiceOption>148.80</guaranteedServiceOption>
<guaranteedByNoonServiceOption>0.00</guaranteedByNoonServiceOption>
<internationalCharge>0.00</internationalCharge>
<netFreightCharge>3088.00</netFreightCharge>
<totalAccessororialCharge>500.00</totalAccessororialCharge>
<variableAccessororialRate>false</variableAccessororialRate>
<linearFeetCharge>30.00</linearFeetCharge>
</rateEstimate>
</return>
</ns2:getHomeMoveRateEstimateResponse>
</soapenv:Body>
</soapenv:Envelope>
```

Book Household Move Request

Authorization

Authorization Type: Basic

Provide your ODFL.com account username and password.

Base Path

Environment	URL
QA	https://apiq.odfl.com/odfl4me/v1.0/bookHomeMove
Production	https://api.odfl.com/odfl4me/v1.0/bookHomeMove

Fields

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
referenceNumber	The reference number returned from the rate request.	String		11	Yes	
paymentType	The payment type for the household move.	String	2	2	Yes	

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
billingAddress.name	The name of the billing address. Must match the name on file with OD.	String		33	Yes	
billingAddress.address1	Line 1 of the billing address. Must match the address on file with OD.	String		33	Yes	
billingAddress.address2	Line 2 of the billing address. Must match the address on file with OD.	String		33	Yes	
billingAddress.city	The billing address city. Must match the city on file with OD.	String		33	Yes	
billingAddress.state	The billing address state. Must match the state on file with OD.	String	2	2	Yes	

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
billingAddress.postalCode	The billing address postal code. Must match the postal code on file with OD.	String	5	6	Yes	
billingAddress.country	The billing address country code. Must match the country code on file with OD.	String	3	3	No	USA
billingPhone1	The primary billing phone number.	String	10	10	Yes	
billingPhone2	The alternate billing phone number.	String	10	10	Yes	
originAddress.name	The origin address name.	String		33	Yes	
originAddress.address1	Line 1 of the origin address.	String		33	Yes	
originAddress.address2	Line 2 of the origin address.	String		33	Yes	

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
originAddress.city	The origin city.	String		33	Yes	
originAddress.state	The origin state.	String	2	2	Yes	
originAddress.postalCode	The origin postal code.	String	5	6	Yes	
originAddress.country	The origin country.	String	3	3	No	USA
destinationAddress.name	The destination address name.	String		33	Yes	
destinationAddress.address1	Line 1 of the destination address.	String		33	Yes	
destinationAddress.address2	Line 2 of the destination address.	String		33	Yes	
destinationAddress.city	The destination city.	String		33	Yes	
destinationAddress.state	The destination state.	String	2	2	Yes	
destinationAddress.postalCode	The destination postal code.	String	5	6	Yes	

Field	Definition	Data Type	Minimum Length	Maximum Length	Required?	Default
destinationAddress.country	The destination country.	String	3	3	No	USA
email	The customer email address.	String			Yes	

Values

Field	Value	Definition
paymentType	CK	Cashier's Check
	MO	Money Order

Sample

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"
xmlns:odm="http://odmove.ws.odfl.com/">
  <soapenv:Header/>
  <soapenv:Body>
    <odm:bookMove>
      <arg0>
        <referenceNumber>784095741</referenceNumber>
        <paymentType>CK</paymentType>
        <billingAddress>
          <name>John Doe</name>
          <address1>Baker Street</address1>
          <address2>3</address2>
          <city>Thomasville</city>
          <country>USA</country>
          <postalCode>27360</postalCode>
          <state>NC</state>
        </billingAddress>
        <billingPhone1>5555555555</billingPhone1>
        <billingPhone2>5555555555</billingPhone2>
        <originAddress>
          <name>John Doe</name>
          <address1>Baker Street</address1>
          <address2>3</address2>
          <city>Schenectady</city>
          <country>USA</country>
          <postalCode>12301</postalCode>
          <state>NY</state>
        </originAddress>
        <destinationAddress>
          <address1>Raeford Ave</address1>
          <address2>10</address2>
          <city>Annapolis</city>
          <country>USA</country>
          <name>John Doe</name>
          <postalCode>21401</postalCode>
          <state>MD</state>
        </destinationAddress>
        <email>abc@email.com</email>
      </arg0>
    </odm:bookMove>
  </soapenv:Body>
</soapenv:Envelope>
```

Book Household Move Response

Field	Definition	Data Type
success	Success boolean should always be checked to verify move was booked successfully.	Boolean
proNumber	The OD PRO number for this household move.	Decimal
couponAmount	If your move qualifies for a coupon, the couponAmount will be displayed here.	Decimal
errorMessages	In case of error, error messages will be in array.	Array (String)

Response Codes

Message	Details
Unable to locate quote, please verify reference number and email.	Please verify the referenceNumber and try again.
The requested move date is more than 120 days out, please request a new date.	
Billing Address - unable to validate city and zip / postal code.	Verify the billingAddress information you've provided and try again.
Origin Address - unable to validate city and zip / postal code.	Verify the originAddress information you've provided and try again.
Destination Address - unable to validate city and zip / postal code	Verify the destinationAddress information you've provided and try again.
Origin Zip / Postal Code does not match what is on the quote	The originAddress.postalCode must match the originPostalCode associated with your rate request.
Origin State does not match what is on the quote	The originAddress.state must be correct for the originAddress.postalCode.
Destination Zip / Postal Code does not match what is on the quote	The destinationAddress.postalCode must match the destinationPostalCode associated with your rate request.
Destination State does not match what is on the quote	The destinationAddress.state must be correct for the destinationAddress.postalCode.
Username is not authorized to make this request.	Please contact Internet.CustomerService@odfl.com for assistance.

Message	Details
Additional rates may apply, please create a new quote or call 1-877-358-6928.	The changeDate in the Book Household Move request must be less than the dropDateTime in the rate request.
Change Date is not a valid date	

Sample

```

<S:Envelope xmlns:S="http://schemas.xmlsoap.org/soap/envelope/">
  <S:Header>
    <WorkContext xmlns="http://oracle.com/weblogic/soap/workarea"/>
  </S:Header>
  <S:Body>
    <ns0:bookMoveResponse xmlns:ns0="http://odmove.ws.odfl.com/">
      <return>
        <success>true</success>
        <couponAmount>0.00</couponAmount>
        <proNumber>123456789</proNumber>
      </return>
    </ns0:bookMoveResponse>
  </S:Body>
</S:Envelope>

```