

OLD DOMINION FREIGHT LINE, INC.

DOCUMENT API DEVELOPMENT GUIDE



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Getting Started

Overview

The Document API is a REST service which returns documents for an associated PRO number.

For more information on all our API services, visit the [Shipping API Integrations Page](#) at [ODFL.com](#).

Testing

We offer a QA environment for onboarding and testing purposes. To get started, visit the [Shipping API Integrations Page](#) and click “[Email an Expert](#)” for help.

Authentication

To use this service, you need an ODFL.com account with a username and password. This will give you access to your account data. To register, visit [ODFL.com](https://odfl.com) and click "[Sign Up](#)".

If you have questions about your OD account, we're available to help Monday–Friday, 7 a.m.–8 p.m. ET.

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

Bearer Token

Request

Obtain a session token by making a GET request to:

Environment	URL
QA	https://apiq.odfl.com/auth/v1.0/token
Production	https://api.odfl.com/auth/v1.0/token

- Authorization Type: Basic Auth
- Username: Provide your ODFL.com Username
- Password: Provide your ODFL.com Password

Response

Code	Message	Notes
200	OK	A session token and expiration are returned. Session tokens expire one hour after issue.
400	Invalid Credentials	The OD Username or Password you've provided is incorrect or your account is disabled. Contact API@odfl.com for assistance.
503	Service Unavailable	Verify that the URL and Authorization Type is correct. If the problem persists, please notify us at: API@odfl.com .

Request

Authorization

Utilize the session token obtained during Authentication as Authorization.

- Type: Bearer Token

Base Path

Create

Perform a POST to:

Environment	URL
QA	https://apiq.odfl.com/document-retrieval-api/v1.0/getDocument
Production	https://api.odfl.com/document-retrieval-api/v1.0/getDocument

Fields

Required

Name	Type	Description
proNumber	Long	PRO number that the document is linked to.
documentType	String	Type of document. (See Values)
format	String	Type of document format. (See Values)

Optional

Name	Type	Description
separatePdfPages	Boolean	If the PDF file is separated into pages. -Default is false

Values

Field Name	Valid Values	
documentType	Bill Of Lading	
	Delivery Receipt	
	Invoice	The invoice provided is a snapshot and subject to change.
	Packing Slip	
	Overlength Certificate	
	Lumper Certificate	
	Weight Certificate	
	Inspection Certificate	
	Delivery Appointment Document	
	Pickup Photo	
	Delivery Photo	
format	PDF	

Response

Fields

Field	Type	Description
success	boolean	
documents	object	
documents.pageNumber	number	Identifies the page number when separatePdfPages is true
documents.document	string/binary	Binary data of the requested document
errors	string	This field contains validation errors in case of false success status.
requestId	number	Unique ID for identifying requests in error logs.

Flags

Code	Message	Details
200		The request was successful.
400	"Invoice has yet to be generated"	The invoice is not yet available.
400	"pro number not found"	An invalid Pro number was provided.
400	"You are not authorized to view the delivery photo for Pro#: 1111111111"	The username is not linked to an account with access to that documentType.
400	"Pro number must be 9-11 digits in length."	An invalid Pro number was provided.
400	"requested document not found"	The Pro number provided does not have that documentType.
400	"requested document type is invalid. Valid types are : Bill Of Lading, Delivery Photo, Delivery Appointment Document, Delivery Receipt, Inspection Certificate, Invoice, Lumper Certificate, Overlength Certificate, Packing Slip, Weight Certificate"	An invalid documentType was provided.
400	"requested document format is invalid. Valid types are : PDF, TIFF, JPG"	An invalid format was provided.

Sample

Request

```
{  
  "proNumber": 1111111111,  
  "documentType": "Delivery Photo",  
  "format": "PDF",  
  "separatePdfPages": false  
}
```

Response

// JSON successful response data with separate PDF pages is true

```
{  
  "success": true,  
  "requestId": "2f3e7975-8506-4c3a-b415-80a3873ad02b",  
  "documents": [  
    {  
      "pageNumber": 1,  
      "document": "JVBERi0xLjQ....BASE64CODE...."  
    },  
    {  
      "pageNumber": 2,  
      "document": "JVBERi0xLjQ....BASE64CODE...."  
    }  
  ]  
}
```

// JSON successful response data with separate PDF pages is false

```
{  
  "success": true,  
  "document": [  
    {  
      "pageNumber": null,  
      "document": "JVBERi0xLjU....BASE64CODE...."  
    }  
  ]  
}
```


// JSON response data with invalid document format

```
{
  "success": false,
  "errors": [
    "requested document format is invalid. Valid types are : PDF, TIFF, JPG"
  ],
  "requestId": "a1111111-1bc1-1d11-11e1-fg11h1i111jk"
}
```

// JSON response data when user doesn't have access to requested document

```
{
  "success": false,
  "errors": [
    "You are not authorized to view the Invoice for Pro#: 1111111111"
  ],
  "requestId": "1e065924-7c6b-410c-afc9-0d0d26790cd6"
}
```

// JSON response data when invoice is not yet available

```
{
  "success": false,
  "errors": [
    "Invoice has yet to be generated"
  ],
  "requestId": "c9fc0924-8b82-4f61-a232-f9a096426b56"
}
```

Best Practice

Bearer Token

- Caching the Bearer Token to be used multiple times
- Expires after one hour
- The expiration date and time is returned in the response as Epoch time

Sending Request

- The only documentType that may change is "Invoice"
- Outside of documentType "Invoice", once a document is obtained, there's no need to continue sending request for that documentType

Using Tracking Statuses to Trigger Document Request

documentType	Tracking Status
"Bill of Lading"	"status": "In Transit", "desc": "Arrived at Origin Service Center" -1 hour after
"Packing Slip"	"status": "In Transit", "desc": "Arrived at Origin Service Center" -1 hour after
"Overlength Certificate"	"status": "Out for Delivery"
"Lumper Certificate"	"status": "Out for Delivery"
"Weight Certificate"	"status": "Out for Delivery"
"Inspection Certificate"	"status": "Out for Delivery"
"Delivery Appointment Document"	"status": "Appointment Set/Confirmed"
"Delivery Photo"	"status": "Delivered"
"Delivery Receipt"	"status": "Delivery Confirmed"
"Invoice"	"status": "Delivered"

Number of Request

Each pro number should be limited to a maximum of 12 requests per hour. Any calls exceeding this limit may be throttled at ODFL's discretion.