

OLD DOMINION FREIGHT LINE, INC.

# DOCUMENT API DEVELOPMENT GUIDE



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# Getting Started

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## 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](#).

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## 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](mailto:Internet.CustomerService@odfl.com)

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## Bearer Token

### Request

Obtain a session token by making a GET request to:

Environment	URL
QA	<a href="https://apiq.odfl.com/auth/v1.0/token">https://apiq.odfl.com/auth/v1.0/token</a>
Production	<a href="https://api.odfl.com/auth/v1.0/token">https://api.odfl.com/auth/v1.0/token</a>

- 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 <a href="mailto:API@odfl.com">API@odfl.com</a> for assistance.
503	Service Unavailable	Verify that the URL and Authorization Type is correct. If the problem persists, please notify us at: <a href="mailto:API@odfl.com">API@odfl.com</a> .

# Request

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## Authorization

Utilize the session token obtained during Authentication as Authorization.

- Type: Bearer Token
- 

## Base Path

### Create

Perform a POST to:

Environment	URL
QA	<a href="https://apiq.odfl.com/document-retrieval-api/v1.0/getDocument">https://apiq.odfl.com/document-retrieval-api/v1.0/getDocument</a>
Production	<a href="https://api.odfl.com/document-retrieval-api/v1.0/getDocument">https://api.odfl.com/document-retrieval-api/v1.0/getDocument</a>

# Fields

## Required

Name	Type	Description
proNumber	Long	PRO number that the document is linked to.
documentType	String	Type of document. (See <a href="#">Values</a> )
format	String	Type of document format. (See <a href="#">Values</a> )

## 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 Appointment Document	
	Delivery Photo	
	Delivery Receipt	
	Freight Bill Correction	
	Inspection Certificate	
	Invoice	The invoice provided is a snapshot and subject to change. -Preliminary invoices are invoices obtained prior to being finalized. -New usernames will be granted access to preliminary invoices by default. -To add or remove access to preliminary invoices, email <a href="mailto:Internet.CustomerService@odfl.com">Internet.CustomerService@odfl.com</a> .
	Lumper Certificate	
	Overlength Certificate	
	Packing Slip	
	Pickup Photo	
	Research Verification	
	Weight Certificate	
Weight Verification		
format	PDF	

# Response

## Fields

Field	Type	Description
success	boolean	True or false
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	pro number not found	An invalid pro number was provided.
400	requested document not found	The pro number provided does not have the requested documentType.
400	Requested certificate does not exist for the selected PRO	The pro number provided does not have the requested documentType.
400	Invoice has yet to be generated	The invoice is not yet available. - To add or remove access to preliminary invoices, email <a href="mailto:Internet.CustomerService@odfl.com">Internet.CustomerService@odfl.com</a> .
400	Pro number must be 9-11 digits in length.	An invalid pro number was provided.
400	You are not authorized to view the ____ for Pro#: 1111111111	The username is not linked to an account with access to that documentType. (See <a href="#">Authorization / Permissions</a> )
400	requested document format is invalid. Valid types are : PDF, TIFF, JPG	An invalid format was provided. - Delivering soon: Updating error message to "Requested document format is invalid. Valid types are: PDF."
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, Pickup Photo, Freight Bill Correction, Research Verification, Weight Verification	An invalid documentType was provided.

Code	Message	Details
400	Pickup Photo for PRO# 1111111111 is unavailable due to the accessorial service not being applied.	Accessorial code PVP was not added to the shipment.
400	Delivery Photo for PRO# 1111111111 is unavailable due to the accessorial service not being applied.	Accessorial code PVD was not added to the shipment.

## Authorization / Permissions

If you believe your username should have the listed permissions, please email your username and account to [Internet.CustomerService@odfl.com](mailto:Internet.CustomerService@odfl.com) for assistance.

Document Type	Username Permission
Bill of Lading	Linked to the shipper, consignee and/or bill to party on the pro
Delivery Appointment Document	Linked to the shipper, consignee and/or bill to party on the pro
Delivery Photo	Linked to the bill to party on the pro
Delivery Receipt	Linked to the shipper, consignee and/or bill to party on the pro
Inspection Certificate	Linked to the bill to party on the pro
Invoice	Linked to the bill to party on the pro.
Lumper Certificate	Linked to the bill to party on the pro
Overlength Certificate	Linked to the bill to party on the pro
Packing Slip	Linked to the shipper, consignee and/or bill to party on the pro
Weight Certificate	Linked to the bill to party on the pro
Pickup Photo	Linked to the bill to party on the pro.
Freight Bill Correction	Linked to the bill to party on the pro
Research Verification	Linked to the bill to party on the pro
Weight Verification	Linked to the bill to party on the pro

# Sample

## Request

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

## Response

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

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

```
}  
]  
}  
  
// 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#: 11111111111"  
  ],  
  "requestId": "1e065924-7c6b-410c-afc9-0d0d26790cd6"  
}
```

```
// JSON response data when access to preliminary invoices is not enabled and the finalized invoice is not complete
```

```
{  
  "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 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
Pickup Photo	"status": "Pickup Completed"
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
Delivery Appointment Document	"status": "Appointment Set/Confirmed"
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 Photo	"status": "Delivered"
Research Verification	"status": "Out for Delivery"
Weight Verification	"status": "Out for Delivery"
Delivery Receipt	"status": "Delivery Confirmed"
Invoice	"status": "Delivery Confirmed"
Freight Bill Correction	"status": "Delivery Confirmed"

## Number of Requests

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.