



# Shipping API

## User Manual



# Shipping API Manual

## Table of Contents

---

Notices	1
Shipping API Rules	2
Business Processes and Rules	2
Shipping Ground Freight Rules	2
Introduction	3
About the TForce Freight Shipping API	3
Who Should Read This Manual	3
Manual Organization	3
Prerequisites	3
Getting Started with Shipping API	4
Key Steps to Begin	4
Helpful Resources	4
Shipping API Endpoints	5
OpenAPI Metadata	5
Create BOL	5
Making a Request	6
Base URL	6
Headers	6
Query Parameters	6
Details for /bol/create Endpoint	7
Details for /openapi Endpoint	17
API Throttling	18

Shipping API Response Structure and Codes	20
Shipping Response Body Properties	20
Formatting and Common Element Constraints	23
Application Integration and Testing	24
Example HTTPS Request Response Pair	25
Appendix	35
HTTP Response Codes	35
Service Option Codes	35
Number Types	36
Email Notification Event Types	36
Packaging Type Codes	37
Service Codes	38
Freight Classifications	39
Reference Number Codes	39
Country Codes	39
Canadian Province and Territory Codes	39
US State Codes	40
Document Codes	41
Rate Codes	44

# Notices

This section contains important legal and regulatory information that governs the use of TForce Freight APIs. By accessing or using the API, you agree to comply with the terms outlined in this section. Please take a moment to review the following notices before proceeding.

## Copyright Information

The content and materials provided in this documentation are the property of TForce Freight and are protected by applicable copyright laws. All rights are reserved. You may use the documentation for your internal purposes related to using this TForce Freight API, but you may not reproduce, distribute, modify, or otherwise exploit the content for commercial purposes without express written consent from TForce Freight.

## Trademarks

"TForce Freight" and the TForce Freight logo are trademarks or registered trademarks of TForce Freight in various jurisdictions. Other names, logos, and trademarks appearing in this documentation are the property of their respective owners.

## Terms of Use

Your use of this TForce Freight API is subject to the TForce Freight Terms of Use, which can be accessed on our official website. By using the API, you acknowledge that you have read, understood, and agreed to abide by the Terms of Use.

## API Usage Policies

Please note that the use of this TForce Freight API is subject to specific usage policies, which may include rate limits, acceptable use guidelines, and data usage restrictions. These policies are designed to ensure fair and responsible use of the API and to maintain the quality of service for all users. Be sure to review and adhere to these policies to avoid any disruptions to your API access.

## Legal Disclaimers

The information and materials provided in this documentation are for informational purposes only and are provided "as is" without any warranties, expressed or implied. TForce Freight makes no representations or warranties regarding the accuracy, completeness, or suitability of the information contained herein. TForce Freight disclaims any liability for any errors or omissions in the documentation.

## Privacy Policies

Your privacy is important to us. TForce Freight's privacy practices are outlined in our Privacy Policy, which can be accessed [here](#) on our official website. The Privacy Policy describes how we collect, use, disclose, and safeguard your personal information in connection with the use of our services, including this API.

## Attribution Requirements

If you are a third-party developer using this API to provide services to your clients, you may need to adhere to certain attribution requirements as specified by TForce Freight.

## Contact Information

For inquiries related to this API, its usage, or any other matter, please contact our support team at [groundfreightapisupport@forcefreight.com](mailto:groundfreightapisupport@forcefreight.com).

# Shipping API Rules

The TForce Freight Shipping API facilitates clients in scheduling shippings for their ground freight shipments. The following sections discuss the rules governing access and use of this API.

## Business Processes and Rules

- TForce Freight APIs require you to follow the request structures defined in this manual. The API enforces strict adherence to these definitions.
- Use of undefined elements will result in unsuccessful request operations.
- API access is restricted to customers (and their authorized agents) shipping packages manifested, tendered, and delivered by TForce Freight. Access is further restricted to the performance of legitimate shipping activities and operations.
- Abusing or data mining TForce Freight APIs will result in revocation of API access.
- Documentation access requires a registered TForce Freight profile.
- In both production and CIE environments, developers need to be enrolled with TForce Freight and receive OAuth Credentials. For more details, see our website to help you [get started](#).

## Shipping Ground Freight Rules

- The API is available to brokers or resellers of transportation services possessing a current and active TForce Freight agreement/partnership.
- LTL Freight origins include the US, CA, & MX, with specific rates for non-contiguous US regions obtainable through TForce Freight Customer Service.

**Important:** By accessing and using this API, users confirm their understanding of these terms and agree to use the API in a manner consistent with its intended purposes. Non-compliance with these rules will result in immediate revocation of API access. TForce Freight reserves the right to monitor API usage to ensure compliance with these terms. Please contact our support team at [groundfreightapisupport@forcefreight.com](mailto:groundfreightapisupport@forcefreight.com) to address any concerns or questions regarding API usage or to seek clarification on these rules.

# Introduction

Welcome to the TForce Freight Shipping API Manual. This guide is tailored to assist developers in utilizing the TForce Freight Shipping API for managing shipping requests efficiently. Whether you are building applications to enhance customer experience or streamline internal operations, this manual will provide you with the knowledge to seamlessly integrate with TForce Freight's rating services.

## About the TForce Freight Shipping API

The TForce Freight Shipping API offers endpoints for streamlining the creation of shipping requests. Users can define detailed shipping parameters, including BOL specifics, shipping instructions, and service options, directly through the API. This integration enables seamless logistics operations, allowing for direct control over shipping processes within user applications, ensuring accuracy and efficiency in freight management.

## Who Should Read This Manual

This manual is intended for developers, software engineers, and technical teams who are responsible for integrating the TForce Freight Shipping API into their applications. Whether you are new to APIs or an experienced developer, this guide will provide you with the necessary information to get started and make the most out of TForce Freight's shipping capabilities.

## Manual Organization

To help you navigate this manual, we've outlined the following sections that cover different aspects of the TForce Freight Shipping API:

- Notices: Important legal and disclaimer information.
- Introduction: An overview of the manual's purpose and organization.
- Getting Started with the TForce Freight Shipping API: Guidelines on accessing the API, including authentication, base URLs, and versioning.
- Shipping API Endpoints: A detailed exploration of the available shipping endpoints, their specific functions, and guidelines for effective utilization.
- Request and Response Format: Information about the structure of API requests and responses, including headers, URL formats, and data formats.
- Integration and Testing Guidelines: Recommendations for testing your integration, including a testing environment, sample data, and rate limiting considerations.
- Appendix: Additional resources, including error codes, enumerations, and additional reference materials.

## Prerequisites

Before you proceed, it's recommended that you have a basic understanding of HTTP, API concepts, and a programming language you intend to use for API integration. Additionally, you should have an active TForce Freight developer account and the necessary credential approval to access the API endpoints.

Please reach out to the [TForce Freight API support team](#) if you have any questions or need assistance during the integration process.

# Getting Started with Shipping API

TForce Freight APIs allow for seamless third-party integrations, enabling TForce Freight customers to enroll their accounts with your application and access/update their account information.

## Key Steps to Begin

The following is a high level overview of the client registration and authorization process:

1. **User Onboarding:** Users can sign up for a new TForce Freight account or log into an existing one. Once enrolled, they'll grant consent for your application to access their TForce Freight account data. This process is managed by the TForce Freight Customer Identity and Access Management (CIAM) platform.
2. **Configuring Your Application:** Visit your developer portal profile to configure your application settings:
  - Set up your application's display information (e.g., logo, display name, home page URL).
  - Provide a webhook URL for receiving events from the TForce Freight API.
  - Manage your OAuth client secrets for secure exchanges.
3. **Handling Webhook Events:** Upon user consent, an event (UserOnboardedEvent) will be dispatched to your configured webhook. This event contains essential information about the onboarded user, which you can use to make further requests to the TForce Freight Tracking API.
4. **Token Management:** Use the provided JSON Web Token (JWT) from the UserOnboardedEvent to retrieve access and refresh tokens from the TForce Freight CIAM platform. These tokens are essential for accessing user data through the API.
5. **Accessing the API:** With a valid token, you can then access the TForce Freight API to retrieve or update the onboarded user's data.
6. **Recovering Access Rights:** If tokens expire, users will need to reaffirm their consent. To streamline this process, consider implementing a mechanism to refresh tokens before they expire.

## Helpful Resources

For more detailed and technical guides on integrating with the TForce Freight API, visit the [TForce Freight Developer Portal](#) and see our resource pages.

Additional references:

- [Microsoft identity platform and OAuth 2.0 On-Behalf-Of flow](#)
- [Overview of the Microsoft Authentication Library \(MSAL\)](#)
- [CloudEvents](#)

# Shipping API Endpoints

The TForce Freight Shipping API provides endpoints for managing shipping documents and operations, such as creating a Bill of Lading (BOL). This section offers a brief overview of the available endpoints within this API.

## OpenAPI Metadata

**GET** **/openapi**

**Description:**  
This endpoint provides the OpenAPI metadata for the TForce Freight Shipping API, detailing the available endpoints, request and response formats, and other crucial API information.

[Request Details](#)

## Create BOL

**POST** **/bol/create**

**Description:**  
This endpoint is used to create a Bill of Lading (BOL) for a shipment. It requires details such as shipper and consignee information, payment details, handling units, commodities, service options, and pickup request information.

[Request Details](#)



# Making a Request

This section focuses on the specifics of making a request to the TForce Freight Shipping API, including required headers, parameters, and the format of the request body.

## Base URL

The following URL allows you to access the TForce Freight Shipping API Endpoints:

**Production**

**`https://api.tforcefreight.com/shipping`**

## Headers

Below is a table of the headers supported and required by the API:

Header Name	Description	Req?	Example Value
Authorization	Used for passing the OAuth2.0 access token.	REQ (for authenticated endpoints)	Bearer [Access-Token]
Cache-Control	Directive for caching mechanism.	OPT	no-cache
Accept	Acceptable content type for responses.	OPT	application/json
Content-Type	The media type of the body of the request (used with POST, PUT and PATCH).	REQ (for requests with a body)	application/json

## Query Parameters

Below is a table of the query parameters supported by the API:

Parameter Name	Description	Req?	Example Value
api-version	<p>Specifies the version of the API to use.</p> <ul style="list-style-type: none"> <li>'v*' (e.g., v1) for live production</li> <li>'cie-v*' (e.g., cie-v1) for customer integration environment matching the production version</li> <li>'cie-vNext' for testing upcoming versions</li> </ul> <p>Please visit the <a href="#">APIs</a> page for available versions.</p>	REQ	v1, cie-v1, cie-vNext

**Note:** It is critical to understand the way versioning is handled through query parameters. Review [the section on testing environments](#) for an example of the version query parameter in use.

## Details for `/bol/create` Endpoint

This endpoint allows you to create a Bill of Lading (BOL) for a shipment.

### Request Body Properties

The request body must include details such as shipper and consignee information, payment details, handling units, commodities, service options, and pickup request information.

Property Name	Type	Req?	Description	Example Value
requestOptions	Object	REQ	Container for request option information.	{ }
requestOptions.serviceCode	String	REQ	The service code associated with the shipment. See <a href="#">appendix</a> .	'308'
requestOptions.pickupDate	String	REQ	Date of the Pickup in YYYY-MM-DD format.	'2024-03-29'
requestOptions.densityEligible	Boolean	OPT	Indicates whether the rate request is eligible for density-based pricing.	false
requestOptions.previewRate	boolean	OPT	Specifies if a preview of the rate is requested.	false
requestOptions.timeInTransit	boolean	OPT	Determines if the time in transit information is requested.	false
requestOptions.customerContext	String	OPT	Allows the inclusion of custom data or identifiers.	'ID 1234'
requestOptions.bolPrintFormat	String	OPT	Accepts TFF or VICS.	'TFF'
shipFrom	Object	REQ	Origin information container.	{ }
shipFrom.name	String	REQ	Name/company name of the shipper.	'Bears R US'
shipFrom.email	String	OPT	Email address for the shipper.	'bear@bears.com'
shipFrom.phone	Object	REQ	Shipper's phone contact information container.	{ }
shipFrom.phone.number	String	REQ	Shipper's primary contact number.	'8045551212'
shipFrom.phone.extension	String	OPT	Extension for the shipper's phone.	'12345'
shipFrom.contact	String	OPT	Contact person at the shipper's location.	'John Doe'
shipFrom.address	Object	REQ	Container for shipper's address information.	{ }

Property Name	Type	Req?	Description	Example Value
shipFrom.address.addressLine	String	REQ	Shipper's street address.	'10250 SANTA MONICA BLVD'
shipFrom.address.city	String	REQ	City of the shipper's address.	'LOS ANGELES'
shipFrom.address.stateProvinceCode	String	REQ	State or province code for the shipper.	'CA'
shipFrom.address.postalCode	String	REQ	Postal code for the shipper's address.	'90067'
shipFrom.address.country	String	REQ	Country code for the shipper. See <a href="#">appendix</a> .	'US'
shipFrom.isResidential	Boolean	OPT	Indicates if the shipper's address is residential.	true
shipTo.name	String	REQ	Name or company of the consignee.	'CATS R US'
shipTo.email	String	OPT	Email address for the consignee.	'cat@cats.com'
shipTo.phone	Object	REQ	Shipper's phone contact information container.	{ }
shipTo.phone.number	String	REQ	Consignee's primary contact number.	'8045551212'
shipTo.phone.extension	String	OPT	Extension for the consignee's phone.	'1234'
shipTo.contact	String	OPT	Contact person at the consignee's location.	'Jane Doe'
shipTo.address	Object	REQ	Container for shipper's address information.	{ }
shipTo.address.addressLine	String	REQ	Consignee's street address.	'123 SCRATCH AVENUE'
shipTo.address.city	String	REQ	City of the consignee's address.	'CAVE CREEK'
shipTo.address.stateProvinceCode	String	REQ	State or province code for the consignee.	'AZ'
shipTo.address.postalCode	String	REQ	Postal code for the consignee's address.	'85331'
shipTo.address.country	String	REQ	Country code for the consignee. See <a href="#">appendix</a> .	'US'
shipTo.isResidential	Boolean	OPT	Indicates if the consignee's address is residential.	false

Property Name	Type	Req?	Description	Example Value
payment	Object	REQ	Payment information container.	{ }
payment.payer	Object	REQ	Payer information container.	{ }
payment.payer.name	String	REQ	The payer's name or company name.	'Bears R US'
payment.payer.email	String	OPT	Email address associated with the payer.	'accounting@bearsrus.com'
payment.payer.phone.number	String	REQ	Primary contact number for the payer.	'8045551212'
payment.payer.phone.extension	String	OPT	Phone extension, if applicable.	'6789'
payment.payer.contact	String	OPT	Name of the contact person at payer's location.	'Jane Accountant'
payment.payer.address	Object	REQ	Container for payer's address information.	{ }
payment.payer.address.addressLine	String	REQ	Payer's street address.	{ }
payment.payer.address.city	String	REQ	City where the payer is located.	'Los Angeles'
payment.payer.address.stateProvinceCode	String	REQ	State or province code for the payer.	'CA'
payment.payer.address.postalCode	String	REQ	Postal code of the payer's address.	'90067'
payment.payer.address.country	String	REQ	Country code where the payer is based. See <a href="#">appendix</a> .	'US'
payment.billingCode	String	REQ	Code representing the billing arrangement. Only accepts `10`.	'10'

Property Name	Type	Req?	Description	Example Value
handlingUnitOne	Object	CON	Handling Unit Container. Required if no Handling Unit Two Container. For grouped pieces.	{ }
handlingUnitOne.quantity	Integer	REQ	Number of items in the first handling unit.	1
handlingUnitOne.typeCode	String	REQ	Type of packaging for the first handling unit. See <a href="#">appendix</a> .	'SKD'
handlingUnitTwo	Object	CON	Handling Unit Container. Required if no Handling Unit One Container. For loose pieces.	{ }
handlingUnitTwo.quantity	Integer	REQ	Number of items in the second handling unit.	2
handlingUnitTwo.typeCode	String	REQ	Type of packaging for the second handling unit. Accepts 'LOO' and 'OTH'.	'OTH'
handlingUnits	Array of Objects	CON	Array of handling unit details when using density based rating. Cannot be used with handlingUnitOne or handlingUnitTwo.	[ { } ]
handlingUnits[].pieces	Integer	REQ	Number of pieces within the handling unit.	5
handlingUnits[].packagingType	String	REQ	Type of packaging for the handling unit. See <a href="#">appendix</a> .	'PLT'
handlingUnits[].dangerousGoods	Boolean	OPT	Indicates if the handling unit contains dangerous goods.	false
handlingUnits[].dimensions	Object	REQ	Dimensional details of the handling unit.	{ }
handlingUnits[].dimensions.length	Number	REQ	The length of the handling unit (used for weight calculations). Max 324.	48

Property Name	Type	Req?	Description	Example Value
handlingUnits[].dimensions.width	Number	REQ	The width of the handling unit, used for dimensional weight calculations. Max 96.	40
handlingUnits[].dimensions.height	Number	REQ	The height of the handling unit, used for dimensional weight calculations. Max 102.	28
handlingUnits[].dimensions.unit	String	REQ	The unit for dimensional measurements. Accepts `IN` (inches).	'IN'
commodities	Array of objects	OPT	Container providing multiple commodity objects.	[ { } ]
commodities[].description	String	OPT	Description of the commodity.	'TEST DESCRIPTION'
commodities[].class	String	OPT	Freight classification number for the commodity. See <a href="#">appendix</a> .	'100'
commodities[].nmfc.prime	String	OPT	NMFC Prime code representing the commodity. 6 digits.	'123456'
commodities[].nmfc.sub	String	OPT	NMFC Sub code for the commodity. 2 digits.	'12'
commodities[].pieces	Integer	REQ	Number of pieces of the commodity.	1
commodities[].weight	Object	REQ	Commodity weight information container.	{ }
commodities[].weight.weight	Number	REQ	Weight of the commodity.	1000
commodities[].weight.weightUnit	String	REQ	Weight unit for the commodity. Valid values: `LBS`, `KGS`.	'LBS'
commodities[].packagingType	String	REQ	Packaging type for the commodity. See <a href="#">appendix</a> .	'BAG'
commodities[].dangerousGoods	Boolean	OPT	Indicates if the commodity is dangerous goods.	false

Property Name	Type	Req?	Description	Example Value
commodities[].dimensions	Object	OPT	Container for commodity dimensional measurements.	{ }
commodities[].dimensions.length	Number	REQ	Length of the commodity for dimensional weight.	48
commodities[].dimensions.width	Number	REQ	Width of the commodity for dimensional weight.	40
commodities[].dimensions.height	Number	REQ	Height of the commodity for dimensional weight.	28
commodities[].dimensions.unit	String	REQ	Unit of measure for the dimensions. Valid values: IN.	'IN'
commodities[].commodityValue	Object	OPT	Container for commodity value information.	100.00
commodities[].commodityValue.value	Number	OPT	Declared value of the commodity.	100.00
commodities[].commodityValue.currency	String	OPT	Currency for the declared value. Valid values: USD.	'USD'
commodities[].commodityID	Integer	OPT	Unique identifier for the commodity.	1
existingShipment	Object	REQ	Container for existing shipment identifiers.	{ }
existingShipment.boId	String	REQ	ID of an existing Bill of Lading.	'12345678'
existingShipment.pro	String	REQ	Shipment number, must be 9 digits.	'987654321'
references	Array	OPT	List of customer-supplied reference numbers for the shipment.	[ { } ]
references[].number	String	REQ	Customer-supplied reference number.	'REF123456'

Property Name	Type	Req?	Description	Example Value
references[].type	String	REQ	Type code for the reference number. See <a href="#">appendix</a> .	'BL'
references[].quantity	Integer	OPT	Quantity associated with the reference number.	10
references[].weight	Number	OPT	Weight associated with the reference number.	200
instructions	Object	OPT	Container for instruction details.	{}
instructions.pickup	String	OPT	Specific instructions for pickup.	'Pickup at dock 5'
instructions.handling	String	OPT	Instructions for handling the shipment.	'Handle with care'
instructions.delivery	String	OPT	Delivery instructions for the carrier.	'Deliver to reception'
serviceOptions	Object	OPT	Container for various service options.	{}
serviceOptions.pickup	Array	OPT	Pickup service options available. See <a href="#">appendix</a> .	['INPU', 'LIFO']
serviceOptions.delivery	Array	OPT	Delivery service options available. See <a href="#">appendix</a> .	['INDE', 'LIFD']
serviceOptions.shipment	Object	OPT	Container for shipment service options.	{}
serviceOptions.shipment.freezeableProtection	Boolean	OPT	Indicates if freezeable protection is required.	false
serviceOptions.shipment.extremeLength	Object	OPT	Details for extreme length shipments. Requires 'value' and 'unit'.	{}
serviceOptions.shipment.extremeLength.value	String	REQ	Length value for shipments requiring customs clearance.	'15'
serviceOptions.shipment.extremeLength.unit	String	REQ	Unit of measurement for extreme length, default is feet.	'FT'



Property Name	Type	Req?	Description	Example Value
serviceOptions.shipment.adjustedHeight	Object	OPT	Details for adjusted height shipments. Requires 'value' and 'unit'.	{ }
serviceOptions.shipment.adjustedHeight.value	String	REQ	Value for the adjusted height of the shipment.	'8'
serviceOptions.shipment.adjustedHeight.unit	String	REQ	Unit of measurement for the adjusted height.	'FT'
serviceOptions.shipment.sortAndSegregate	Object	OPT	Details if sorting and segregating of units is required. Requires 'quantity'.	{ }
serviceOptions.shipment.sortAndSegregate.quantity	Number	REQ	Quantity of units to be sorted or segregated.	5
serviceOptions.shipment.excessValue	Object	OPT	Details for declared excess value shipments. Requires 'value' and 'currency'.	{ }
serviceOptions.shipment.excessValue.value	String	REQ	Amount of the excess value declared.	'1000'
serviceOptions.shipment.excessValue.currency	String	REQ	Currency type for the excess value amount: accepts 'USD'.	'USD'
serviceOptions.shipment.dangerousGoods	Object	OPT	Contact information for shipments containing hazardous materials. Requires 'name' and 'phone'.	{ }

Property Name	Type	Req?	Description	Example Value
serviceOptions.shipment.dangerousGoods.name	String	REQ	Contact name for hazardous materials.	'John Doe'
serviceOptions.shipment.dangerousGoods.phone	Object	REQ	Contact phone information for hazardous materials. Requires 'number' and optionally 'extension'.	{ }
serviceOptions.shipment.dangerousGoods.phone.number	String	REQ	Phone number for hazardous material contact.	'123-456-7890'
serviceOptions.shipment.dangerousGoods.phone.extension	String	OPT	Phone extension for hazardous material contact.	'101'
pickupRequest	Object	OPT	This container allows you to schedule a pickup and provide pickup parameters with your shipment	{ }
pickupRequest.pickup	Object	REQ	Container for pickup details.	{ }
pickupRequest.pickup.date	String	REQ	Date when the shipment is ready for pickup.	'2024-03-22'
pickupRequest.pickup.time	String	REQ	Time when the shipment will be ready for pickup.	'10:00:00'
pickupRequest.pickup.openTime	String	REQ	Start of the pickup window.	'08:00:00'
pickupRequest.pickup.closeTime	String	REQ	End of the pickup window.	'16:00:00'
pickupRequest.requester	Object	REQ	Information about the person or entity requesting the pickup.	{ }
pickupRequest.requester.companyName	String	REQ	Name of the requester's company.	'TFF'
pickupRequest.requester.contactName	String	REQ	Name of the contact person at the requester's company.	'sengol'
pickupRequest.requester.email	String	REQ	Email address of the requester.	'bear@bearsrus.com'
pickupRequest.requester.phone	Object	REQ	Contact phone information for the requester.	{ }
pickupRequest.requester.phone.number	String	REQ	Phone number of the requester.	'800-555-1212'
pickupRequest.requester.phone.extension	String	OPT	Phone extension for the requester, if applicable.	'4321'

Property Name	Type	Req?	Description	Example Value
pickupRequest.requester.thirdParty	Boolean	OPT	Indicates if the requester is a third party.	true
pickupRequest.pomIndicator	Boolean	REQ	Indicator for the inclusion of Pickup Notifications for LTL.	true
pickupRequest.pom	Object	OPT	Details for Pickup Notifications for LTL.	{ }
pickupRequest.pom.number	String	REQ	Identifier number for the notification.	'12345'
pickupRequest.pom.numberType	String	REQ	Type of identifier for the notification. See <a href="#">appendix</a> .	'Load number'
pickupRequest.pom.pickupNotification	Object	REQ	Container for pickup notification details.	{ }
pickupRequest.pom.pickupNotification.companyName	String	OPT	Name of the company to notify.	'Tigers R Good'
pickupRequest.pom.pickupNotification.contactName	String	OPT	Contact name for the notification.	'Tony the Tiger'
pickupRequest.pom.pickupNotification.failedEmail	String	REQ	Email address for notification failures.	'failed@bears.com'
pickupRequest.pom.pickupNotification.message	String	REQ	Message content for the pickup notification.	'Send me my honey'
pickupRequest.pom.pickupNotification.emailNotification	Array	REQ	Details for email notifications.	[ { } ]
pickupRequest.pom.pickupNotification.emailNotification[].email	String	REQ	Email address to receive notifications.	'notify1@bears.com'
pickupRequest.pom.pickupNotification.emailNotification[].eventType	Array	REQ	Types of events to notify. See <a href="#">appendix</a> .	['EN', 'RR']
documents	Object	OPT	Container for document information.	{ }
documents.image[]	Array	REQ	Contains image data. Max of 3 images.	[ { } ]
documents.image[].type	String	REQ	Code representing the type of image. See <a href="#">appendix</a> .	'30'

Property Name	Type	Req?	Description	Example Value
documents.image[].format	String	REQ	Format of the image. Accepts `01` (PDF).	'01'
documents.image[].label	Object	REQ	Container for label information.	{ }
documents.image[].label.type	String	REQ	Type of the label. See <a href="#">appendix</a> .	'01'
documents.image[].label.'startPosition:'	Integer	OPT	Starting position of the label, from 1 - 999.	1
documents.image[].label.numberOfStickers	Integer	REQ	Number of stickers to print per page, from 1 - 999. <ul style="list-style-type: none"> <li>`1` enforced for label types: 04, 07 and 08.</li> </ul>	1

## Details for `/openapi` Endpoint

This endpoint provides the OpenAPI metadata for the TForce Freight Shipping API, offering comprehensive details on available endpoints, request/response formats, and other essential API information to facilitate integration.

There is no request body for this GET operation. It is a simple request that returns the OpenAPI metadata.

## API Throttling

TForce Freight APIs implement throttling mechanisms to ensure equitable distribution of resources among all users and to safeguard the system's stability and reliability. This section clarifies the different throttling policies in place.

**Note:** Customer Integration Environment (CIE) endpoints and Production endpoints maintain separate throttling counters. Reaching a limit in one environment won't impact your request allowance in the other.

### Rate Limiting

Our system implements rate limiting when a large volume of requests is received in a short time frame. This limiting helps balance server load and maintain consistent performance even during traffic spikes.

- Renewal Time: 60 seconds.

High request volumes may result in a 429 error response. This indicates that there's a temporary hold on requests to ensure optimal experience for all users. The rate limit resets after 60 seconds.

### Quota Limiting

Different from rate limiting, quota limiting controls the number of requests an individual user can send over an extended period. Quota limiting ensures no single user overwhelms the system. Each user has a generous request allowance for this time frame.

- Renewal Time: 300 seconds.

Crossing the quota limit threshold will trigger a 403 error response for the user who exceeded the limit. This error is exclusive to the user who has exceeded their quota, and normal access is restored after 300 seconds.

## Summary of Throttle Limits

The following table summarizes the different throttling limits.

Throttle Type	Error Code	Renewal Time	User Affected
Rate Limit	429	60 seconds	All users
Quota Limit	403	300 seconds	Requesting user only

## Recommendations

The following recommendations will help you manage your API requests to minimize throttling.

- Continuously monitor your API usage.
- If you receive a 429 or 403 response, consider implementing a method like exponential back-off for your requests. Wait for the specified renewal time before sending another batch of requests.
- Review the HTTP header of our responses. It can offer insights about your current usage relative to potential limits.

# Shipping API Response Structure and Codes

The following section details the various codes and responses you may receive from the Shipping API.

## Shipping Response Body Properties

These tables summarize and describe the different response body properties you may encounter.

### Understanding These Tables

These tables represent nested JSON structures using dots to denote parent structures.

<p>For example, consider the following field from our table:  <code>summary.responseStatus.code</code></p> <p>This corresponds to the nested structure in the JSON response:</p> <pre>{   "summary": {     "responseStatus": {       "code": "OK"     }   } }</pre>	<p>In the response, the  <code>code</code>  is nested within  <code>responseStatus</code>  which itself is nested within  <code>summary</code>  Hence, the dot notation  <code>summary.responseStatus.code</code></p>
---	---

### Shipping Response Properties (General)

Property	Type	Description
<code>summary</code>	Object	Container for summary information.
<code>summary.code</code>	String	Indicates the success or failure status of the request.
<code>summary.message</code>	String	Message describing the status of the request.
<code>summary.transactionReference</code>	Object	Container for transaction reference information.
<code>summary.transactionReference.transactionId</code>	String	Unique transaction ID assigned to this `Get Rate` operation request.

Property	Type	Description
detail	Object	Container for detailed information about the BOL.
detail.bolId	Number	Retrieval key for the stored Bill of Lading (the identification number).
detail.pro	String	PRO number associated with the shipment.
detail.originServiceCenter	String	Origin service center code.

### Shipping Response Properties (Pickup Details)

Property	Type	Description
detail.pickup	Object	Container for pickup details.
detail.pickup.responseStatus	Object	Status of the pickup response.
detail.pickup.responseStatus.code	String	Identifies the success or failure of the transaction (1 = Successful).
detail.pickup.responseStatus.description	String	Describes the Response Status Code.
detail.pickup.transactionReference	Object	Container for transaction reference details for the pickup.
detail.pickup.transactionReference.confirmationNumber	String	The confirmation number for the pickup transaction.
detail.pickup.transactionReference.emailSent	Boolean	Indicates whether an email was sent for the pickup transaction.
detail.pickup.transactionReference.originIsRural	Boolean	Indicates if the origin location is in a rural area.
detail.pickup.transactionReference.destinationIsRural	Boolean	Indicates if the destination location is in a rural area.

### Shipping Response Properties (Rate Details)

Property	Type	Description
detail.rateDetail	Array	Container for rate details associated with the BOL.
detail.rateDetail[].alerts	Array	Container for any alerts related to the rate detail.
detail.rateDetail[].alerts[].code	String	The returned alert code resulting from Rate operation.
detail.rateDetail[].alerts[].message	String	Description of the returned alert code.
detail.rateDetail[].service	Object	Service details for the rate operation.
detail.rateDetail[].service.code	String	The code for the TForce Freight Service associated with the shipment.
detail.rateDetail[].service.description	String	A text description of the TForce Freight Service associated with the shipment.



Property	Type	Description
detail.rateDetail[].rate	Array	Container for rate components.
detail.rateDetail[].rate[].code	String	The code associated with the rate type. See the <a href="#">appendix</a> .
detail.rateDetail[].rate[].description	String	Text description of the rate code. Describes the service or fee the rate code represents.
detail.rateDetail[].rate[].value	String	Value associated with the rate code, indicating the amount or rate for the specific charge or service.
detail.rateDetail[].rate[].unit	String	Unit of measurement related to the rate type, such as USD for currency or percentage for discounts.
detail.rateDetail[].shipmentCharges	Object	Container for total shipment charges.
detail.rateDetail[].shipmentCharges.total	Object	Total shipment charges.
detail.rateDetail[].shipmentCharges.total.value	String	Value of total shipment charges.
detail.rateDetail[].shipmentCharges.total.currency	String	Code of currency used for the shipment charges. Typically USD.
detail.rateDetail[].shipmentWeights	Object	Container for shipment weight information.
detail.rateDetail[].shipmentWeights.billable	Object	Billable weight information.
detail.rateDetail[].shipmentWeights.billable.value	String	The value for the billable weight associated with the shipment.
detail.rateDetail[].shipmentWeights.billable.unit	String	Unit of measurement for the billable weight of a shipment. Typically `LBS` for pounds.
detail.rateDetail[].timeInTransit	Object	Container for time in transit details.
detail.rateDetail[].timeInTransit.timeInTransit	String	Time spent in transit.
detail.rateDetail[].timeInTransit.unit	String	Unit of the time in transit, such as `DAY`.

## Shipping Response Properties (Document Details)

Property	Type	Description
detail.documents	Object	Contains PDF streams of BOLs and Labels.
detail.documents.image	Array of Objects	Returns any document(s) associated with the request.
detail.documents.image[].status	String	Code indicating whether the request operation returned a response.
detail.documents.image[].type	String	Code representing the type of document returned (e.g., BOL).
detail.documents.image[].format	String	Format of the document returned (typically PDF).
detail.documents.image[].data	String	Base64 encoded image data representing the document.

## Formatting and Common Element Constraints

Understanding the constraints on data elements is crucial when integrating with the TForce Freight Shipping API. This section outlines common element constraints specific to this API.

### Data Types

The Shipping API utilizes various data types, including:

- **String:** Used for textual data such as names, email addresses, codes, and other descriptive information.
- **Integer:** Represents numeric values without decimals, used for properties like pieces and weight.
- **Boolean:** Indicates true/false values, used for flags such as 'pomIndicator'.
- **Array:** A collection of elements, often used for lists like 'service options' and 'email notifications'.
- **Object:** Represents complex data structures, like 'shipFrom', 'shipTo', and 'commodities'.

### Value Constraints

Certain elements have specific constraints. For example:

- **Service Options:** Must be one of the predefined enumeration values (e.g., 'INPU', 'LIFO').

Review the appendix and property tables for additional enumerations.

### Length and Format Constraints

Some string values have specific formats or patterns they must adhere to.

- **Date Format:** Dates must be in the 'YYYY-MM-DD' format. Example: "2023-08-28"
- **Time:** Must be formatted correctly, e.g., 'HH:MM:SS" (24-hour clock).
- **Email Addresses:** Must match a valid email pattern.
- **Phone Numbers:** Must be provided within defined length limits.
- **Company Name, Contact Name, Address:** Have maximum length requirements and, in some cases, minimum lengths.
- **Postal Codes:** Must conform to the length appropriate for the country or territory.
- **Weight Units:** Must use an accepted unit of measure (e.g., 'LBS' for pounds).

### Specific Restraints

For a deeper understanding of constraints, refer to the specific request or response body properties.

**Note:** Adhering to these constraints is essential for successful API requests. Ensure that your requests conform to these guidelines for effective integration with the TForce Freight Shipping API.

# Application Integration and Testing

TForce Freight's integration environment is available 24/7 for your application testing.

**Note:** All API URLs are case-sensitive.

## Integration Testing

For integration testing, please point your Shipping RESTful API requests to:

**CIE**

`/shipping/[endpoint]?api-version=cie-v1`

## Production Environment

Upon the conclusion of testing, redirect your Shipping RESTful API to the following production URL:

**Production**

`/shipping/[endpoint]?api-version=v1`



Request (cont.):

```
        "number": "8045551212",
        "extension": "12345"
    },
    "contact": "Shipper",
    "address": {
        "addressLine": "10250 SANTA MONICA BLVD",
        "city": "LOS ANGELES",
        "stateProvinceCode": "CA",
        "postalCode": "90067",
        "country": "US"
    },
    "isResidential": true
},
"shipTo": {
    "name": "CATS R US",
    "email": "cat@cats.com",
    "phone": {
        "number": "8045551212",
        "extension": "1234"
    },
    "contact": "Consignee",
    "address": {
        "addressLine": "123 SCRATCH AVENUE",
        "city": "CAVE CREEK",
        "stateProvinceCode": "AZ",
        "postalCode": "85331",
        "country": "US"
    }
},
"payment": {
    "payer": {
        "name": "Bears R US",
        "email": "bear@bears.com.com",
        "phone": {
            "number": "8045551212",
            "extension": "1234"
        },
        "contact": "Payer",
```

Request (cont.):

```
    "address": {
      "addressLine": "10250 SANTA MONICA BLVD",
      "city": "LOS ANGELES",
      "stateProvinceCode": "CA",
      "postalCode": "90067",
      "country": "US"
    },
    "billingCode": "10"
  },
  "handlingUnitOne": {
    "quantity": 1,
    "typeCode": "SKD"
  },
  "handlingUnitTwo": {
    "quantity": 2,
    "typeCode": "OTH"
  },
  "commodities": [{
    "description": "TEST DESCRIPTION",
    "class": "100",
    "pieces": 1,
    "weight": {
      "weight": 1000,
      "weightUnit": "LBS"
    },
    "packagingType": "BAG",
    "dangerousGoods": false
  }],
  "references": [{
    "number": "BL123456",
    "type": "BL",
    "quantity": 1,
    "weight": 1000
  }],
  "instructions": {
    "pickup": "East Dock",
```

Request (cont.):

```
    "handling": "Handle with care",
    "delivery": "West Dock"
  },
  "serviceOptions": {
    "pickup": ["LIFO"],
    "delivery": ["INDE"],
    "shipment": {
      "freezableProtection": true,
      "excessValue": {
        "value": "100.00",
        "currency": "USD"
      }
    }
  },
  "pickupRequest": {
    "pickup": {
      "date": "2024-03-22",
      "time": "10:00:00",
      "openTime": "08:00:00",
      "closeTime": "16:00:00"
    },
    "requester": {
      "companyName": "TFF",
      "contactName": "sengol",
      "email": "bear@bearsrus.com",
      "phone": {
        "number": "800-555-1212",
        "extension": "4321"
      }
    }
  },
  "pomIndicator": true,
  "pom": {
    "number": "12345",
    "numberType": "Load number",
    "pickupNotification": {
      "companyName": "Tigers R Good",
      "contactName": "Tony the Tiger",
```

Request (cont.):

```
        "failedEmail": "failed@bears.com",
        "message": "Send me my honey",
        "emailNotification": [{
            "email": "notify1@bears.com",
            "eventType": ["EN", "RR"]
        }, {
            "email": "notify2@bears.com",
            "eventType": ["EN"]
        }]
    }
},
"documents": {
    "image": [{
        "type": "30",
        "format": "01",
        "label": {
            "type": "01",
            "startPosition": 1,
            "numberOfStickers": 1
        }
    }]
}
}
```



And the response:

```
HTTP/1.1 200 OK
```

```
cache-control: no-cache,no-store,must-revalidate,max-age=0,no-cache="set-cookie"
```

```
content-length: 15197
```

```
content-type: application/json
```

```
pragma: no-cache
```

```
{
  "summary": {
    "code": "OK",
    "message": "success",
    "transactionReference": {
      "transactionId": "7cb424ff-bfd3-4d88-b9b3-a1259f474eb8"
    }
  },
  "detail": {
    "bolId": 46216219,
    "pro": "072821696",
    "originServiceCenter": "LOS",
    "rateDetail": [{
      "alerts": [{
        "code": "853",
        "message": "FBR853: DESTINATION IS A RURAL
POINT"
      }
    ],
    "service": {
      "code": "308",
      "description": "TForce Freight LTL"
    },
    "rate": [
      {
        "code": "DSCNT",
        "description": "Discount",
```

Response (cont.):

```
        "value": "1809.75",
        "unit": "USD"
    },
    {
        "code": "DSCNT_RATE",
        "description": "Discount Rate",
        "value": "75.00",
        "unit": "%"
    },
    {
        "code": "INDE",
        "description": "INSIDE_DL",
        "value": "169.00",
        "unit": "USD"
    },
    {
        "code": "PFFF",
        "description": "FREEZE_PROT",
        "value": "45.00",
        "unit": "USD"
    },
    {
        "code": "EXLI",
        "description": "EXLI",
        "value": "74.50",
        "unit": "USD"
    },
    {
        "code": "RESP",
        "description": "RESIDENTIAL_PU",
        "value": "207.00",
        "unit": "USD"
    },
    },
```

Response (cont.):

```
    {
      "code": "LIFO",
      "description": "LIFT_GATE_PU",
      "value": "175.00",
      "unit": "USD"
    },
    {
      "code": "FUEL_SUR",
      "description": "Fuel Surcharge Fee",
      "value": "255.78",
      "unit": "USD"
    },
    {
      "code": "HICST",
      "description": "HICST",
      "value": "22.00",
      "unit": "USD"
    },
    {
      "code": "LND_GROSS",
      "description": "LND_GROSS",
      "value": "2413.00",
      "unit": "USD"
    },
    {
      "code": "AFTR_DSCNT",
      "description": "AFTR_DSCNT",
      "value": "603.25",
      "unit": "USD"
    }
  ],
  "shipmentCharges": {
```

Response (cont.):

```
        "total": {
          "value": "1551.53",
          "currency": "USD"
        }
      },
      "shipmentWeights": {
        "billable": {
          "value": "1000",
          "unit": "LBS"
        }
      }
    ,
    "timeInTransit": {
      "timeInTransit": "1",
      "unit": "DAY"
    }
  }
]
,
"pickup": {
  "responseStatus": {
    "code": "1",
    "description": "Success"
  },
  "transactionReference": {
    "confirmationNumber": "WBU5353360",
    "emailSent": "false",
    "originIsRural": "false",
    "destinationIsRural": "true"
  }
}
```

Response (cont.):

```
    ,
    "documents": {
      "image": [{
        "status": "OK",
        "type": "30",
        "format": "PDF",
        "data": "JVBERi0**base64**encoded**data**VPRgo="
      }
    ]
  }
}
```

# Appendix

## HTTP Response Codes

These are some of the HTTP status codes that the API may return in response to your requests:

Status Code	Description	Additional Info
200	OK	The request was successful and returned the expected data.
400	Bad Request	The server could not understand the request due to invalid syntax. Check your request body or parameters.
401	Unauthorized	The user is not authenticated. Ensure that your API key or authentication token is valid.
403	Forbidden	When the user's request quota is exceeded. The response will include a Retry-After header indicating the recommended retry interval in seconds. This typically affects the requesting user only.
404	Not Found	The server could not find the requested endpoint or resource. Ensure your URL is correct.
429	Too Many Requests	The call rate for the API has been exceeded. The response will include a Retry-After header indicating the recommended retry interval in seconds. This affects all users.

## Service Option Codes

Pickup Code	Description	Delivery Code	Description
WHPU	Warehouse Pickup	NTFN	Notification Before Delivery
INPU	Inside Pickup	WHDL	Warehouse Delivery
RESP	Residential Pickup	INDE	Inside Delivery
LIFO	Liftgate Pickup	RESD	Residential Delivery
LAPU	Limited Access Pickup	LADL	Liftgate Delivery
TRPU	Tradeshow Pickup	LIFD	Limited Access Delivery
		TRDS	Tradeshow Delivery

## Number Types

Number Type	Description
BOL number	Bill of Lading number used for Shipping Notifications for LTL shipment.
Load number	Load number used for Shipping Notifications for LTL shipment.
Other	Other types of numbers used for Shipping Notifications for LTL shipment.
P&M	Project and Move number used for Shipping Notifications for LTL shipment.
Pickup number	Project and Move number used for Shipping Notifications for LTL shipment.
Pickup Reference number	Project and Move number used for Shipping Notifications for LTL shipment.
PO number	Purchase Order number used for Shipping Notifications for LTL shipment.
PRO number	PRO number used for tracking and Shipping Notifications for LTL shipment.
Project	Project number used for Shipping Notifications for LTL shipment.
Quote number	Quote number used for Shipping Notifications for LTL shipment.
RA number	Return Authorization number used for Shipping Notifications for LTL shipment.
Release number	Release number used for Shipping Notifications for LTL shipment.
SID number	Shipper's Identification number used for Shipping Notifications for LTL shipment.
Task	Task number used for Shipping Notifications for LTL shipment.
VPRC	Vendor Purchase Return Confirmation number used for Shipping Notifications for LTL shipment.

## Email Notification Event Types

Value	Description
EN	Email Notification for general updates
PS	Shipping Scheduled notification
PX	Shipping Cancelled notification
RR	Rate Reminder notification

## Packaging Type Codes

### Handling Type Codes

handlingUnitOne Type Codes	Description
CBY	Carboy
PLT	Pallet
SKD	Skid
TOT	Totes

handlingUnitTwo Type Codes	Description
LOO	Loose
OTH	Other

handlingUnits Type Code	Description
CAR	Carrier
CBY	Carboy
SCN	Screen (Check.)
LSE	Lease (Check)
LOO	Loose
PAL	Pail
OTH	Other
PLT	Pallet
SKD	Skid
TOT	Totes

### Commodity Package Codes

Commodity Package Type Code	Description
BAG	Bag
BAL	Bale
BAR	Barrel
BDL	Bundle
BIN	Bin
BOX	Box
BSK	Basket



Commodity Package Type Code	Description
BUN	Bunch
CAB	Cabinet
CAN	Can
CAR	Carrier
CAS	Case
CBY	Carboy
CON	Container
CRT	Crate
CSK	Cask
CTN	Carton
CYL	Cylinder
DRM	Drum
LOO	Loose
OTH	Other
PAL	Pail
PCS	Pieces
PKG	Package
PLN	Pipe Line
PLT	Pallet
RCK	Rack
REL	Reel
ROL	Roll
SKD	Skid
SPL	Spool

## Service Codes

Service Code	Description
308	TForce Freight LTL (US/US, US/ CA)
309	TForce Freight LTL - Guaranteed
334	TForce Freight LTL - Guaranteed A.M.
349	TForce Standard LTL (US/MX)

## Freight Classifications

Class Numbers		Class Numbers		Class Numbers		Class Numbers	
50		55		60		65	
70		77.5		85		92.5	
100		110		125		150	
175		200		250		300	
400		500					

## Reference Number Codes

Code	Reference Number Type	Code	Reference Number Type	Code	Reference Number Type
PR	Project	QT	Quote Number	VP	VPRC Number
SI	SID Number	PO	Purchase Order Number	PM	Project Management
TS	Task	BL	Bill of Lading Number	RN	Other
CO	Consignee Reference	SH	Shipper Reference		

## Country Codes

Country	Abbreviation
Canada	CA
Mexico	MX
United States of America	US

## Canadian Province and Territory Codes

Province/Territory	Abbreviation	Province/Territory	Abbreviation
Alberta	AB	Nunavut	NU
British Columbia	BC	Ontario	ON
Manitoba	MB	Prince Edward Island	PE
New Brunswick	NB	Quebec	QC
Newfoundland and Labrador	NL	Saskatchewan	SK
Northwest Territories	NT	Yukon	YT
Nova Scotia	NS		

## US State Codes

State	Abbreviation	State	Abbreviation
Alabama	AL	Montana	MT
Alaska	AK	Nebraska	NE
Arizona	AZ	Nevada	NV
Arkansas	AR	New Hampshire	NH
California	CA	New Jersey	NJ
Colorado	CO	New Mexico	NM
Connecticut	CT	New York	NY
Delaware	DE	North Carolina	NC
Florida	FL	North Dakota	ND
Georgia	GA	Ohio	OH
Hawaii	HI	Oklahoma	OK
Idaho	ID	Oregon	OR
Illinois	IL	Pennsylvania	PA
Indiana	IN	Rhode Island	RI
Iowa	IA	South Carolina	SC
Kansas	KS	South Dakota	SD
Kentucky	KY	Tennessee	TN
Louisiana	LA	Texas	TX
Maine	ME	Utah	UT
Maryland	MD	Vermont	VT
Massachusetts	MA	Virginia	VA
Michigan	MI	Washington	WA
Minnesota	MN	West Virginia	WV
Mississippi	MS	Wisconsin	WI
Missouri	MO	Wyoming	WY

## Document Codes

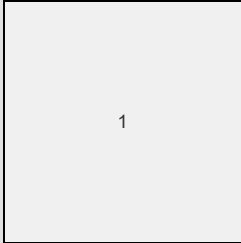
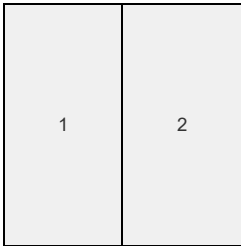
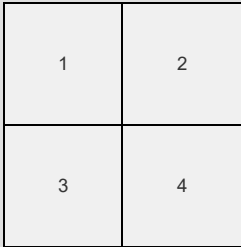
The following table specifies the different document types you can include in a request.

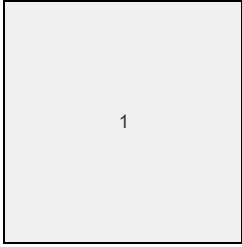
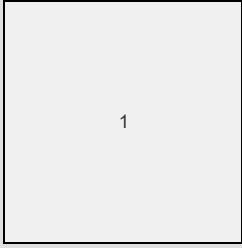
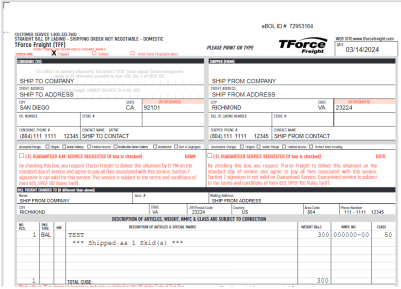
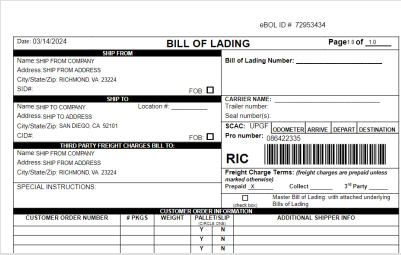
Document Type Code	Description
20	Bill of Lading (BOL) (Type: TFF or VICS per Request Option)
30	Label

**Note:** When using type code `30`, you must additionally specify a label type.

The following table specifies the different label types available for API requests. Learn more about how to use the printing start position at the end of this appendix.

LT	Description	Format	PP	MS	MQ										
01	Address Labels with PRO Nos.	<p><b>Address Labels</b> (w/ PRO #'s)</p> <table border="1"> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>3</td> <td>4</td> </tr> </table> <p>Avery 5168</p>	1	2	3	4	4	4	999						
1	2														
3	4														
02	Address Labels w/o PRO Nos.	<p><b>Address Labels</b> (w/o PRO #'s)</p> <table border="1"> <tr> <td>1</td> <td>2</td> </tr> <tr> <td>3</td> <td>4</td> </tr> <tr> <td>5</td> <td>6</td> </tr> <tr> <td>7</td> <td>8</td> </tr> <tr> <td>9</td> <td>10</td> </tr> </table> <p>Avery 5163 or 5263</p>	1	2	3	4	5	6	7	8	9	10	10	10	999
1	2														
3	4														
5	6														
7	8														
9	10														
<p><b>Key of Column Abbreviations :</b>                      LT - Label Type                      PP - Number of stickers Per Page                      MS - Maximum Start position for printing                      MQ - Maximum Quantity of Stickers</p>															

LT	Description	Format	PP	MS	MQ																														
03	PRO Stickers	<p><b>PRO Stickers</b></p> <table border="1"> <tr><td>1</td><td>2</td><td>3</td></tr> <tr><td>4</td><td>5</td><td>6</td></tr> <tr><td>7</td><td>8</td><td>9</td></tr> <tr><td>10</td><td>11</td><td>12</td></tr> <tr><td>13</td><td>14</td><td>15</td></tr> <tr><td>16</td><td>17</td><td>18</td></tr> <tr><td>19</td><td>20</td><td>21</td></tr> <tr><td>22</td><td>23</td><td>24</td></tr> <tr><td>25</td><td>26</td><td>27</td></tr> <tr><td>28</td><td>29</td><td>30</td></tr> </table> <p>Avery 5160, 5260, or 5810</p>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	30	30	999
1	2	3																																	
4	5	6																																	
7	8	9																																	
10	11	12																																	
13	14	15																																	
16	17	18																																	
19	20	21																																	
22	23	24																																	
25	26	27																																	
28	29	30																																	
04	Address Labels (1x1)	<p><b>Address Labels</b> (Small package version)</p> 	4	4	999																														
05	Address Labels (2x1)	<p><b>Address Labels</b> (Small package version)</p> 	2	2	999																														
06	Address Labels (2x2)	<p><b>Address Labels</b> (Small package version)</p> 	4	4	999																														

LT	Description	Format	PP	MS	MQ
07	Thermal Labels (4x6)	<p><b>4x6 Thermal Labels</b></p> 	1	1	999
08	Thermal Labels (4x8)	<p><b>4x8 Thermal Labels</b></p> 	1	1	999
N/A	Bill of Lading – TFF Format				
N/A	Bill of Lading – VICS Format				

### Printing Labels Instructions

The following steps can help you save space while printing using the API's positioning capabilities.

1. Specify the label type code based on your requirement. Refer to the table of label types provided above for details on each type, including sticker positioning.
2. Choose the starting position for printing. This is the position on the label sheet from where printing will begin.

3. Determine the number of stickers you need to print. This should not exceed the number of labels per sheet for the specified type.
4. If you are using a new sheet, your starting position will typically be 1.
5. For printing on partially used sheets, select the starting position as the next available label on the sheet.

### Example:

- **Scenario 1:** You have a new sheet and need to print one label.
  - Label Type: 01 (4 stickers per page)
  - Starting Position: 1
  - Number of Stickers: 1
  - Outcome: The label prints on the first sticker in row 1, column 1.
- **Scenario 2:** You're printing the second label on the same sheet.
  - Starting Position: 2 (assuming the first label was used)
  - Number of Stickers: 1
  - Outcome: The label prints on the second sticker in row 1, column 2, preserving the remaining stickers on the sheet.
- **Note:** If you print a number of labels that exceed the remaining stickers on a sheet, the printing will continue onto the next sheet automatically.

## Rate Codes

Code	Description	Example Value	Unit
DSCNT	Discount	0	USD
DSCNT_RATE	Discount Rate	0	USD
INDE	INSIDE_DL	169.0	USD
INPU	INSIDE_PU	169.0	USD
RESP	RESIDENTIAL_PU	207.0	USD
RESD	RESIDENTIAL_DL	207.0	USD
LIFD	LIFT_GATE_DL	175.0	USD
LIFO	LIFT_GATE_PU	175.0	USD
FUS_FEE	Fuel Surcharge Fee	249.45	USD
LND_GROSS	LND_GROSS	588.32	USD
AFTR_DSCNT	AFTR_DSCNT	588.32	USD