Shipping API

User Manual

Shipping API

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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.

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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.

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 please contact our support team at 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	Specifies the version of the API to use. • 'v*' (e.g., v1) for live production • 'cie-v*' (e.g., cie-v1) for customer integration environment matching the production version • 'cie-vNext' for testing upcoming versions Please visit the APIs page for available versions.	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.

`/bol/create` Properties

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

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

Property Name	Type	Description	Example Value
payment	Object	Payment information container.	{ }
payment.payer	Object	Payer information container.	{ }
payment.payer.name	String	The payer's name or company name.	'Bears R US'
payment.payer.email	String	Email address associated with the payer.	'accounting@bearsrus.com'
payment.payer.phone	Object	Container for payer contact number.	{ }
payment.payer.phone.number	String	Primary contact number for the payer.	'8045551212'
payment.payer.phone.extension	String	Phone extension, if applicable.	'6789'
payment.payer.contact	String	Name of the contact person at payer's location.	'Jane Accountant'
payment.payer.address	Object	Container for payer's address information.	{ }
payment.payer.address.addressLine	String	Payer's street address.	'10250 SANTA MONICA BLVD'
payment.payer.address.city	String	City where the payer is located.	'Los Angeles'
payment.payer.address.stateProvinceCode	String	State or province code for the payer.	'CA'
payment.payer.address.postalCode	String	Postal code of the payer's address.	'90067'
payment.payer.address.country	String	Country code where the payer is based. See appendix.	'US'
payment.billingCode	String	Code representing the billing arrangement. Only accepts `10`.	'10'
handlingUnitOne	Object	Handling Unit Container. Required if no Handling Unit Two Container. For grouped pieces.	{ }
handlingUnitOne.quantity	Integer	Number of items in the first handling unit.	1

Property Name	Type	Description	Example Value
handlingUnitOne.typeCode	String	Type of packaging for the first handling unit. See appendix.	'SKD'
handlingUnitTwo	Object	Handling Unit Container. Required if no Handling Unit One Container. For loose pieces.	{}
handlingUnitTwo.quantity	Integer	Number of items in the second handling unit.	2
handlingUnitTwo.typeCode	String	Type of packaging for the second handling unit. Accepts `LOO` and `OTH`.	'OTH'
handlingUnits	Array of Objects	Array of handling unit details when using density based rating. Cannot be used with handlingUnitOne or handlingUnitTwo.	[{}]
handlingUnits[].pieces	Integer	Number of pieces within the handling unit.	5
handlingUnits[].packagingType	String	Type of packaging for the handling unit. See appendix.	'PLT'
handlingUnits[].dangerousGoods	Boolean	Indicates if the handling unit contains dangerous goods.	false
handlingUnits[].dimensions	Object	Dimensional details of the handling unit.	{}
handlingUnits[].dimensions.length	Number	The length of the handling unit (used for weight calculations). Max 324.	48
handlingUnits[].dimensions.width	Number	The width of the handling unit (used for weight calculations).	32
handlingUnits[].dimensions.height	Number	The height of the handling unit (used for weight calculations).	24
handlingUnits[].dimensions.unit	Number	The unit used for dimensional measurements.	'IN'
commodities	Array of objects	Container providing multiple commodity objects.	[{}]
commodities[].description	String	Description of the commodity.	'TEST DESCRIPTION'
commodities[].class	String	Freight classification number for the commodity. See appendix.	'100'

Property Name	Type	Description	Example Value
commodities[].nmfc.prime	String	NMFC Prime code representing the commodity. 6 digits.	'123456'
commodities[].nmfc.sub	String	NMFC Sub code for the commodity. 2 digits.	'12'
commodities[].pieces	Integer	Number of pieces of the commodity.	1
commodities[].weight	Object	Commodity weight information container.	{}
commodities[].weight.weight	Number	Weight of the commodity.	1000
commodities[].weight.weightUnit	String	Weight unit for the commodity. Valid values: `LBS`, `KGS`.	'LBS'
commodities[].packagingType	String	Packaging type for the commodity. See appendix.	'BAG'
commodities[].dangerousGoods	Boolean	Indicates if the commodity is dangerous goods.	false
commodities[].dimensions	Object	Container for commodity dimensional measurements.	{}
commodities[].dimensions.length	Number	Length of the commodity for dimensional weight.	48
commodities[].dimensions.width	Number	Width of the commodity for dimensional weight.	40
commodities[].dimensions.height	Number	Height of the commodity for dimensional weight.	28
commodities[].dimensions.unit	String	Unit of measure for the dimensions. Valid values: IN.	'IN'
commodities[].commodityValue	Object	Container for commodity value information.	{}
commodities[].commodityValue.value	Number	Declared value of the commodity.	100.00
commodities[].commodityValue.currency	String	Currency for the declared value. Valid values: USD.	'USD'
commodities[].commodityID	Integer	Unique identifier for the commodity.	1
references	Array	List of customer-supplied reference numbers for the shipment.	[{}]
references[].number	String	Customer-supplied reference number.	'REF123456'

Property Name	Type	Description	Example Value
references[].type	String	Type code for the reference number. See appendix.	'BL'
references[].quantity	Integer	Quantity associated with the reference number.	10
references[].weight	Number	Weight associated with the reference number.	200
instructions	Object	Container for instruction details.	{ }
instructions.pickup	String	Specific instructions for pickup.	'Pickup at dock 5'
instructions.handling	String	Instructions for handling the shipment.	'Handle with care'
instructions.delivery	String	Delivery instructions for the carrier.	'Deliver to reception'
serviceOptions	Object	Container for various service options.	{ }
serviceOptions.pickup	Array	Pickup service options available. See appendix.	['INPU', 'LIFO']
serviceOptions.delivery	Array	Delivery service options available. See appendix.	['INDE', 'LIFD']
serviceOptions.shipment	Object	Container for shipment service options.	{ }
serviceOptions.shipment.freezableProtection	Boolean	Indicates if freezable protection is required.	false
serviceOptions.shipment.extremeLength	Object	Details for extreme length shipments. Requires 'value' and 'unit'.	{ }
serviceOptions.shipment.extremeLength.value	String	Length value for shipments requiring customs clearance.	'15'
serviceOptions.shipment.extremeLength.unit	String	Unit of measurement for extreme length, default is feet.	'FT'
serviceOptions.shipment.adjustedHeight	Object	Details for adjusted height shipments. Requires 'value' and 'unit'.	{ }
serviceOptions.shipment.adjustedHeight.value	String	Value for the adjusted height of the shipment.	'8'
serviceOptions.shipment.adjustedHeight.unit	String	Unit of measurement for the adjusted height.	'FT'

Property Name	Type	Description	Example Value
serviceOptions.shipment.sortAndSegregate	Object	Details if sorting and segregating of units is required. Requires 'quantity'.	{ }
serviceOptions.shipment.sortAndSegregate.quantity	Number	Quantity of units to be sorted or segregated.	5
serviceOptions.shipment.excessValue	Object	Details for declared excess value shipments. Requires 'value' and 'currency'.	{ }
serviceOptions.shipment.excessValue.value	String	Amount of the excess value declared.	'1000'
serviceOptions.shipment.excessValue.currency	String	Currency type for the excess value amount: accepts `USD`.	'USD'
serviceOptions.shipment.dangerousGoods	Object	Contact information for shipments containing hazardous materials. Requires 'name' and 'phone'.	{ }
serviceOptions.shipment.dangerousGoods.name	String	Contact name for hazardous materials.	'John Doe'
serviceOptions.shipment.dangerousGoods.phone	Object	Contact phone information for hazardous materials. Requires 'number' and optionally 'extension'.	{ }
serviceOptions.shipment.dangerousGoods.phone.number	String	Phone number for hazardous material contact.	'1234567890'
serviceOptions.shipment.dangerousGoods.phone.extension	String	Phone extension for hazardous material contact.	'101'
pickupRequest	Object	This container allows you to schedule a pickup and provide pickup parameters with your shipment	{ }
pickupRequest.pickup	Object	Container for pickup details.	{ }
pickupRequest.pickup.date	String	Date when the shipment is ready for pickup.	'2024-03-22'
pickupRequest.pickup.time	String	Time when the shipment will be ready for pickup.	'10:00:00'
pickupRequest.pickup.openTime	String	Start of the pickup window.	'08:00:00'
pickupRequest.pickup.closeTime	String	End of the pickup window.	'16:00:00'
pickupRequest.requester	Object	Information about the person or entity requesting the pickup.	{ }
pickupRequest.requester.companyName	String	Name of the requester's company.	'TFF'

Property Name	Type	Description	Example Value
pickupRequest.requester.contactName	String	Name of the contact person at the requester's company.	'sengol'
pickupRequest.requester.email	String	Email address of the requester.	'bear@bearsrus.com'
pickupRequest.requester.phone	Object	Contact phone information for the requester.	{ }
pickupRequest.requester.phone.number	String	Phone number of the requester.	'8005551212'
pickupRequest.requester.phone.extension	String	Phone extension for the requester, if applicable.	'4321'
pickupRequest.requester.thirdParty	Boolean	Indicates if the requester is a third party.	true
pickupRequest.pomIndicator	Boolean	Indicator for the inclusion of Pickup Notifications for LTL.	true
pickupRequest.pom	Object	Details for Pickup Notifications for LTL.	{ }
pickupRequest.pom.number	String	Identifier number for the notification.	'12345'
pickupRequest.pom.numberType	String	Type of identifier for the notification. See appendix.	'Load number'
pickupRequest.pom.pickupNotification	Object	Container for pickup notification details.	{ }
pickupRequest.pom.pickupNotification.companyName	String	Name of the company to notify.	'Tigers R Good'
pickupRequest.pom.pickupNotification.contactName	String	Contact name for the notification.	'Tony the Tiger'
pickupRequest.pom.pickupNotification.failedEmail	String	Email address for notification failures.	'failed@bears.com'
pickupRequest.pom.pickupNotification.message	String	Message content for the pickup notification.	'Send me my honey'
pickupRequest.pom.pickupNotification.emailNotification	Array	Details for email notifications.	[{ }]
pickupRequest.pom.pickupNotification.emailNotification[].email	String	Email address to receive notifications.	'notify1@bears.com'
pickupRequest.pom.pickupNotification.emailNotification[].eventType	Array	Types of events to notify. See appendix.	['EN', 'RR']

Property Name	Type	Description	Example Value
documents	Object	Container for document information.	{ }
documents.image[]	Array	Contains image data. Max of 3 images.	[{ }]
documents.image[].type	String	Code representing the type of image. See appendix.	'30'
documents.image[].format	String	Format of the image. Accepts `01` (PDF).	'01'
documents.image[].label	Object	Container for label information.	{ }
documents.image[].label.type	String	Type of the label. See appendix.	'01'
documents.image[].label.startPosition	Integer	Starting position of the label, from 1 - 999.	1
documents.image[].label.numberOfStickers	Integer	Number of stickers to print per page, from 1 - 999. `1` enforced for label types: 04, 07 and 08.	1

`/openapi` Properties

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.

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

Shipping Response Properties (General)

Property	Type	Description
summary	Object	Container for summary information.
summary.code	String	Indicates the success or failure status of the request.
summary.message	String	Message describing the status of the request.
summary.transactionReference	Object	Container for transaction reference information.
summary.transactionReference.transactionId	String	Unique transaction ID assigned to this `Get Rate` operation request.
detail	Object	Container for detailed information about the BOL.
detail.bolId	Number	Retrieval key for the stored Bill of Lading (the identification number).

Property	Type	Description
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. Only monitor for approved services. See the list.
detail.rateDetail[].service.description	String	A text description of the TForce Freight Service associated with the shipment.
detail.rateDetail[].rate	Array	Container for rate components.
detail.rateDetail[].rate[].code	String	The code associated with the rate type. See the appendix.

Property	Type	Description
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	The date format follows the ISO 8601 standard. The date should be in the format `YYYY-MM-DD`. Example: `2024-12-31`.
Time	The time format uses a 24-hour clock. The time should be in the format `HHMM`. Example: `1300` for 1:00 PM or `0930` for 9:30 AM.
Email	The email pattern must match a typical email format, which includes a local part, the @ symbol, and a domain part. Example: `example@domain.com`. The regex pattern used is `^(?=.*[a-zA-Z0-9])([a-zA-Z0-9\.\-\_]+)@([a-zA-Z0-9\.\-\_]+)\.([a-zA-Z]{2,})$`.
Phone	The phone number should include only digits and can have a maximum length of 15 characters. Example: `1234567890`.
Postal Code	The postal code format must match typical postal codes used in the US, Canada, and Mexico. Example: US - `12345`, Canada - `A1A1A1`, Mexico - `12345`.

> **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.

Property details

The following section details constraints for each property.

> **Note:** The "Req" field denotes whether each property is required (Yes), conditionally required (Con), or optional (Opt). Required properties must always be included in requests. Conditionally required properties must be included if their parent property is included. Optional properties can either be included or excluded in your requests.

Details for `/request` requests

```
{
    "requestOptions": {

        "serviceCode": "",

        "pickupDate": "",

        "densityEligible": ,

        "previewRate": ,
        "timeInTransit": ,
        "customerContext": "",

        "bolPrintFormat": "",

    },
    "shipFrom": {

        "name": "",

        "email": "",

        "phone": {

            "number": "",
```

Property	Req	Detail
"requestOptions": {	**Req:** Yes	
"serviceCode": "",	**Req:** Yes	**Enum:** Appendix
"pickupDate": "",	**Req:** Yes	**Format:** Date
"densityEligible": ,	**Req:** Opt	**Enum:** Boolean
"previewRate": ,	**Req:** Opt	
"timeInTransit": ,	**Req:** Opt	
"customerContext": "",	**Req:** Opt	
"bolPrintFormat": "",	**Req:** Opt	**Enum:** 'TFF', 'VICS'
},		
"shipFrom": {	**Req:** Yes	
"name": "",	**Req:** Yes	**Characters:** ≥1, ≤100
"email": "",	**Req:** Opt	**Format:** Email
"phone": {	**Req:** Yes	
"number": "",	**Req:** Yes	**Format:** Phone

Details for `/request` requests (cont)

```
        "extension": "",
```
Req: Opt
Characters: ≤5

```
    },
```

```
    "contact": "",
```
Req: Opt
Characters: ≥1, ≤100

```
    "address": {
```
Req: Yes

```
        "addressLine": "",
```
Req: Yes
Characters: ≥1, ≤100

```
        "city": "",
```
Req: Yes
Characters: ≤100

```
        "stateProvinceCode": "",
```
Req: Yes
Characters: =2

```
        "postalCode": "",
```
Req: Yes
Format: [Postal Code](#)

```
        "country": "",
```
Req: Yes
Enum: [Appendix](#)

```
    },
```

```
    "isResidential":
```
Req: Opt
Enum: [Boolean](#)

```
  },
  "shipTo": {
```
Req: Yes

```
    "name": "",
```
Req: Yes
Characters: ≥1, ≤100

```
    "email": "",
```
Req: Opt
Format: [Email](#)

```
    "phone": {
```
Req: Yes

```
        "number": "",
```
Req: Yes
Format: [Phone](#)

```
        "extension": "",
```
Req: Opt
Characters: ≤5

```
    },
```

Details for `/request` requests (cont)

```
        "contact": "",
```
Req: Opt
Characters: ≥1, ≤100

```
      "address": {
```
Req: Yes

```
          "addressLine": "",
```
Req: Yes
Characters: ≥1, ≤100

```
          "city": "",
```
Req: Yes
Characters: ≤100

```
          "stateProvinceCode": "",
```
Req: Yes
Characters: =2

```
          "postalCode": "",
```
Req: Yes
Format: Postal Code

```
          "country": "",
```
Req: Yes
Enum: Appendix

```
      },
```

```
      "isResidential":
```
Req: Opt
Enum: Boolean

```
    },
    "payment": {
```
Req: Yes

```
      "payer": {
```
Req: Yes

```
          "name": "",
```
Req: Yes
Characters: ≥1, ≤100

```
          "email": "",
```
Req: Opt
Format: Email

```
          "phone": {
```
Req: Yes

```
            "number": "",
```
Req: Yes
Format: Phone

```
            "extension": "",
```
Req: Opt
Characters: ≤5

```
          },
```
Req: Yes

```
          "contact": "",
```
Req: Opt
Characters: ≥1, ≤100

```
          "address": {
```
Req: Yes

Details for `/request` requests (cont)

`"addressLine": "",`	**Req:** Yes **Characters:** ≥1, ≤100
`"city": "",`	**Req:** Yes **Characters:** ≤100
`"stateProvinceCode": "",`	**Req:** Yes **Characters:** =2
`"postalCode": "",`	**Req:** Yes **Format:** Postal Code
`"country": "",`	**Req:** Yes **Enum:** Appendix
`},`	
`"billingCode": "",`	**Req:** Yes **Enum:** '10' - Prepaid
`},`	
`"handlingUnitOne": {`	**Req:** Con **Misc:** Cannot combine with handlingUnits
`"quantity": ,`	**Req:** Con
`"typeCode": "",`	**Req:** Con **Enum:** Appendix
`},`	
`"handlingUnitTwo": {`	**Req:** Con **Misc:** Cannot combine with handlingUnits
`"quantity": ,`	**Req:** Con
`"typeCode": "",`	**Req:** Con **Enum:** Appendix
`},`	
`"handlingUnits": [`	**Req:** Con **Misc:** Cannot combine with handlingUnitOne/Two
`{`	
`"pieces": ,`	**Req:** Yes

Details for `/request` requests (cont)

```
        "packagingType": "",
```
Req: Yes
Enum: [Appendix](#)

```
        "dangerousGoods": ,
```
Req: Opt
Enum: [Boolean](#)

```
        "dimensions": {
```
Req: Yes

```
            "length": ,
```
Req: Yes
Value: >0, <324

```
            "width": ,
```
Req: Yes
Value: >0, <96

```
            "height": ,
```
Req: Yes
Value: >0, <102

```
            "unit": "",
```
Req: Yes
Enum: `IN` - Inch

```
        },
    },
],
"commodities": [
```
Req: Yes

```
    {
        "nmfc": {
```
Req: Opt

```
            "prime": "",
```
Req: Con
Characters: =6

```
            "sub": "",
```
Req: Con
Characters: =2

```
        },
        "description": "",
```
Req: Yes
Characters: ≥1, ≤754

```
        "class": "",
```
Req: Opt
Enum: [Appendix](#)

```
        "pieces": ,
```
Req: Yes
Value: ≥1, ≤9999

```
        "weight": {
```
Req: Yes

Details for `/request` requests (cont)

```
            "weight": ,
```
Req: Yes

```
            "weightUnit": "",
```
Req: Yes

Enum: `LBS` , `KGS`

```
        },
```

```
        "packagingType": "",
```
Req: Yes

Enum: Appendix

```
        "dangerousGoods": ,
```
Req: Opt

Enum: Boolean

```
        "dimensions": {
```
Req: Opt

```
            "length": ,
```
Req: Con

Value: >0, <324

```
            "width": ,
```
Req: Con

Value: >0, <96

```
            "height": ,
```
Req: Con

Value: >0, <102

```
            "unit": "",
```
Req: Con

Enum: `IN` - Inch

```
        },
        "commodityValue": {
```
Req: Opt

```
            "value": ,
```
Req: Opt

Misc: Up to two decimals

```
            "currency": "",
```
Req: Opt

Enum: `USD`

```
        },
        "commodityID":
```
Req: Opt

```
    }
],
"references": [
```
Req: Opt

```
    {
        "number": "",
```
Req: Con

```
        "type": "",
```
Req: Con

Enum: Appendix

```
        "quantity": ,
```
Req: Opt

Details for `/request` requests (cont)

`            "weight":`	**Req:** Opt
`        }`	
`    ],`	
`    "instructions": {`	**Req:** Opt
`        "pickup": "",`	**Req:** Opt **Characters:** ≤200
`        "handling": "",`	**Req:** Opt **Characters:** ≤300
`        "delivery": "",`	**Req:** Opt **Characters:** ≤300
`    },`	
`    "serviceOptions": {`	**Req:** Opt
`        "pickup": [ "" ],`	**Req:** Opt **Enum:** Appendix
`        "delivery": [ "" ],`	**Req:** Opt **Enum:** Appendix
`        "shipment": {`	**Req:** Opt
`            "freezableProtection": ,`	**Req:** Opt **Format:** Boolean
`            "extremeLength": {`	**Req:** Opt
`                "value": ,`	**Req:** Con **Value:** >0
`                "unit": "",`	**Req:** Con **Enum:** `FEET`
`            },`	
`            "adjustedHeight": {`	**Req:** Opt
`                "value": "",`	**Req:** Con
`                "unit": "",`	**Req:** Con **Enum:** `FEET`
`            },`	
`            "sortAndSegregate": {`	**Req:** Opt
`                "quantity":`	**Req:** Con

Details for `/request` requests (cont)

```
        },
        "excessValue": {
            "value": "",
            "currency": "",
        },
        "dangerousGoods": {
            "name": "",
            "phone": {
                "number": "",
                "extension": "",
            }
        },
    },
    "pickupRequest": {
        "pickup": {
            "date": "",
            "time": "",
            "openTime": "",
            "closeTime": "",
        },
        "requester": {
            "companyName": "",
            "contactName": "",
```

Req: Opt	
Req: Con	
Req: Con **Enum:** `USD`	
Req: Opt	
Req: Con	
Req: Con	
Req: Con **Format:** Phone	
Req: Opt	
Req: Opt	
Req: Con	
Req: Con **Format:** Date	
Req: Con **Format:** Time	
Req: Con **Format:** Time	
Req: Con **Format:** Time	
Req: Con	
Req: Con **Characters:** ≥1, ≤200	
Req: Con **Characters:** ≥1, ≤200	

Details for `/request` requests (cont)

```
        "email": "",
```
Req: Con
Format: Email

```
        "phone": {
```
Req: Con

```
            "number": "",
```
Req: Con
Format: Phone

```
            "extension": "",
```
Req: Opt

```
        }
```

```
        "thirdParty": ,
```
Req: Opt
Format: Boolean

```
    },
```

```
    "pomIndicator": ,
```
Req: Con
Format: Boolean

```
    "pom": {
```
Req: Opt

```
        "number": "",
```
Req: Opt
Characters: ≥1, ≤16

```
        "numberType": "",
```
Req: Opt
Enum: Appendix

```
        "pickupNotification": {
```
Req: Con

```
            "companyName": "",
```
Req: Opt
Characters: ≤100

```
            "contactName": "",
```
Req: Opt
Characters: ≤100

```
            "failedEmail": "",
```
Req: Con
Format: Email

```
            "message": "",
```
Req: Con
Characters: ≥1, ≤500

```
            "emailNotification": [
```
Req: Con
Items Allowed: ≥1

```
                {
```

```
                    "email": "",
```
Req: Con
Format: Email

Details for `/request` requests (cont)

```
                    "eventType": [ "" ],                      Req: Con
                                                              Enum: Appendix
                }
            ],
        },
    },
    "documents": {                                            Req: Opt

        "image": [                                            Req: Con
                                                              Items Allowed: ≤3
            {
                "type": "",                                   Req: Con
                                                              Enum: Appendix

                "format": "",                                 Req: Con
                                                              Enum: `01` - PDF

                "label": {                                    Req: Opt

                    "type": "",                               Req: Con
                                                              Enum: Appendix

                    "startPosition": ,                        Req: Opt
                                                              Value: ≥1, ≤999

                    "numberOfStickers": ,                     Req: Con
                                                              Value: ≥1, ≤999
                }
            }
        ]
    }
}
```

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`

Example HTTPS Request Response Pair

Example `/request`

POST	**https://api.tforcefreight.com/shipping/bol/create?api-version=v1**

```
POST https://api.tforcefreight.com/shipping/bol/create?api-version=v1 HTTP/1.1

Cache-Control: no-cache
Authorization:
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••

{
    "requestOptions": {
        "serviceCode": "308",
        "pickupDate": "2024-03-29",
        "previewRate": true,
        "timeInTransit": true
    },
    "shipFrom": {
        "name": "Bears R US",
        "email": "bear@bears.com",
        "phone": {
```

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.):

```json
            "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.):

```json
                              "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.):

```json
                    {
                        "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.):

```json
                        "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
INPU	Inside Pickup	NTFN	Notification Before 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
TBE	Tube
TNK	Tank
UNT	Unit
VPK	Van Pack
WRP	Wrapped

Service Codes

Service Code	Description
308	TForce Freight LTL (US/US, US/ CA)
309	TForce Freight LTL - Guaranteed
311	TForce Freight Accelerated Guaranteed
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.
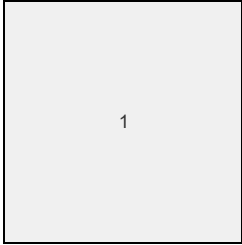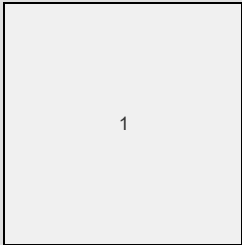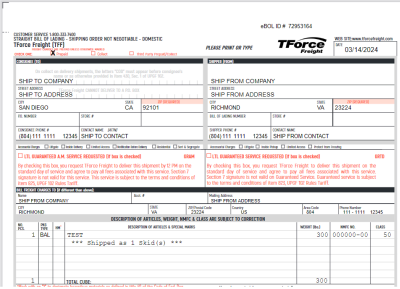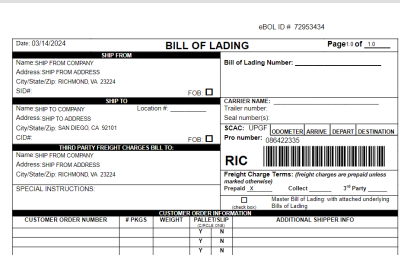
Document Type Code	Description
20	Bill of Lading (BOL) (Type: TFF or VICS per Request Option)
30	Label

> **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.	**Address Labels** (w/ PRO #'s) Avery 5168	4	4	999
02	Address Labels w/o PRO Nos.	**Address Labels** (w/o PRO #'s) Avery 5163 or 5263	10	10	999
	Key of Column Abbreviations : LT - Label Type PP - Number of stickers Per Page MS - Maximum Start position for printing MQ - Maximum Quantity of Stickers				

LT	Description	Format	PP	MS	MQ
03	PRO Stickers	**PRO Stickers** 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 Avery 5160, 5260, or 5810	30	30	999
04	Address Labels (1x1)	**Address Labels** (Small package version) 1	4	4	999
05	Address Labels (2x1)	**Address Labels** (Small package version) 1　2	2	2	999
06	Address Labels (2x2)	**Address Labels** (Small package version) 1　2 3　4	4	4	999

LT	Description	Format	PP	MS	MQ
07	Thermal Labels (4x6)	**4x6 Thermal Labels** 	1	1	999
08	Thermal Labels (4x8)	**4x8 Thermal Labels** 	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
TAGD_SUR	TAGD Surcharge	100.32	USD

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