

FedEx API–Estimated Duties and Taxes

Knowledge Base document

Introduction

Items entering foreign countries/territories are subject to customs inspections and duties/taxes assessment in accordance with each country's/territory's laws. Customs duties and taxes are assessed if merchandise is valued above the threshold set by each country/territory. FedEx provides international shipment strategy and duty and tax solutions.

With the FedEx API estimated duties and taxes feature, customers can receive a more robust international rate quote that integrates shipping charges with an estimate on applicable duties and taxes.

Estimated Duties and Taxes Details

❖ Availability

This feature is not available for all the customers. It is advised that any customer facing personnel to use the guidelines below when determining who may qualify for Estimated Duties & Taxes.

❖ Target Customers Requirements

Following are the EDT Target customer requirements:

- Customers who want to rate FedEx® international shipments and will be paying for shipping charges.
- Experienced international shippers who do not need help finding basic international shipping data such as all applicable harmonized codes, excise conditions and units of measure.
- Customers who want to integrate a more robust FedEx international rate quote functionality directly into their existing order-entry, warehouse management, and other business software systems but don't want to host their own software.

❖ Target Customer Profile

Customers integrating the Estimated Duties & Taxes feature should fit the following, high-level profile:

- Should be an international shipper with enough experience that they are able to identify any applicable harmonized codes, units of measure and/or excise conditions. If not, then they may be referenced to the Global Trade Manager suite of tools on [fedex.com](https://www.fedex.com) for free searches. Just be aware that it will increase the time needed to integrate the feature.

- Should be a customer that is shipping to and from locations on the list of [FedEx supported countries/territories](#).
- Should be a customer's intending to pay the transportation charges on any international shipments. Note that the Duties & Taxes feature will not return an estimate if the customer indicates that the recipient or a 3rd party will be paying transportation charges
- Must know the applicable Harmonized Tariff Codes for any commodity being shipped.
- Must know all applicable excise conditions.
- Must know all applicable units of measure (Visit Reference Guide on [FedEx Developer Portal](#) to view the complete list of all available units of measure).
- The below service needs to be selected:
 - FedEx Express® International Single-piece shipments
 - FedEx Express® International Multi-piece shipments
 - FedEx International Ground® Single-piece shipments
- The shipper must be paying the shipping charges and the duties and taxes or the shipping charges only. An estimated request for a shipment where the shipping charges are being billed to the recipient or a third party will not result in an estimate being returned.

❖ Constraints

- Estimated Duties & Taxes should not be made available for integration into a 3rd party reseller solution, which includes FedEx Compatible Solutions
- Estimated Duties & Taxes should not be provided to customers creating rate shopping systems or web sites

❖ Customer Benefits

- Offers customers a single, integrated quote on international shipments.
- Prevents the need to go to multiple sites for a single quote.
- Provides a more accurate view of full international shipping costs.

Requesting Estimated Duties and Taxes (EDT) using Rate and Transit Times API

Following are the steps and EDT specific important elements to request EDT details using [Rates and Transit Times API](#):

1. Use endpoint: *Rate and Transit Times (rate/v1/rates/quotes)*
2. Provide *accountNumber* and all required shipment details in *requestedShipment*
3. Provide below required elements values to request EDT data.

Element	Description
requestedShipment required	Type: object This is shipment data for which a rate quote is requested.
requestedShipment\edtRequestType required	Type: string Specifies whether the customer wishes to have Estimated Duties and Taxes to be provided with the rate quotation. Only applies with shipments moving under international services. Valid Value: ALL
requestedShipment\customsClearanceDetail required	Type: object This is Customs clearance data associated with the shipment. Customs commodity data is required for international and intra-country rating.
requestedShipment\customsClearanceDetail\commodities required	Type: object Specify the one or more commodity details.
requestedShipment\customsClearanceDetail\commodities\harmonizedCode required	Type: string This is to specify the Harmonized Tariff System (HTS) code to meet U.S. and foreign governments' customs requirements. To research the country-specific classification for your commodity, use FedEx Global Trade Manager online at fedex.com/gtm . Example: 900211101000 (Min. HTS10, Numbers Only)
requestedShipment\customsClearanceDetail\commodities\countryOfManufacture required	Type: string Specify the commodity manufacturing country code. Example: US
requestedShipment\customsClearanceDetail\commodities\quantity required	Type: number<int32> This is the units quantity (using quantityUnits as the unit of measure) per commodity. Example: 125
requestedShipment\customsClearanceDetail\commodities\quantityUnits required	Type: string This is the unit of measure for the units quantity. Example: EA
requestedShipment\customsClearanceDetail\commodities\customsValue required	Type: object Specify the Customs value details for the commodity.
requestedShipment\customsClearanceDetail\commodities\customsValue\amount required	Type: number<double> Indicate the amount. Example: 12.45
requestedShipment\customsClearanceDetail\commodities\customsValue\currency required	Type: string Indicate the three-character ISO currency code. Example: USD

4. Following are the key elements associated with EDT in a successful Rate Response.

Element	Description
output\rateReplyDetails\ ratedShipmentDetails\edtCharges	Type: object This object returns estimated duties and taxes for input commodities.
output\rateReplyDetails\ ratedShipmentDetails\totalDutiesAndTaxes	Type: number<double> This is the sum of all duties, taxes and fees for all the commodities in this request. Example: 1000.12
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ harmonizedCode	Type: string This is the Harmonized code for the commodity.
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail	Type: object This object returns estimated duties and taxes detail for the commodity.
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\edtTaxType	Type: string Indicates the Tax type. Example: DUTY
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\effectiveDate	Type: string This is the effective date for the Taxes. Format [YYYY-MM-DD]. Example: 2019-12-06
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\name	Type: string Indicates the tax name. Example: GST [Goods and Services Tax; Goods and Services Tax]
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\description	Type: string Indicates the additional description/details associated on the tax. Example: "GST is calculated on the Canadian dollar value of the goods, including duty and excise tax. Applied only in Alberta, British Columbia, Manitoba, the Northwest Territories, Nunavut, Quebec, Saskatchewan, and the Yukon Territory."
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\formula	Type: string Indicates the formula being used to calculate the tax. Example: "Amount = (DPV + EXCISE) * 0.05"
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\taxableValue	Type: number<double> This is taxable value. Example: 562.23
output\rateReplyDetails\ ratedShipmentDetails\edtCharges\ edtTaxDetail\amount	Type: number<double> This is Tax amount. Example: 785.12

Sample Example:

Rate Request	Rate Response
<pre>{ "accountNumber": { "value": "Your Account Number" }, "requestedShipment": { "edtRequestType": "ALL", ----- }, "customsClearanceDetail": { ----- }, "commodities": [{ "description": "Video Camera", "harmonizedCode": "900211101000", "countryOfManufacture": "US", "quantity": 3, "quantityUnits": "EA", ----- "customsValue": { "amount": "100", "currency": "USD" } }] }</pre>	<pre>{ "transactionId": "33c3f062-3716-46c7-9f97-e7d4eb5adb8d", "output": { "rateReplyDetails": [{ ----- }], "ratedShipmentDetails": [{ "rateType": "ACCOUNT", ----- "totalDutiesAndTaxes": 13.0, ----- "edtCharges": [{ "harmonizedCode": "900211101000", "edtTaxDetail": { "edtTaxType": "DUTY", "effectiveDate": "2021-04-29", "name": "MFN [MFN Applied [[02]]]", "taxableValue": 0.0, "amount": 0.0 } }, { "harmonizedCode": "900211101000", "edtTaxDetail": { "edtTaxType": "GENERAL_SALES_TAX", "effectiveDate": "2021-04-29", "name": "GST [Goods and Services Tax; Goods and Services Tax]", "taxableValue": 100.0, "description": "GST is calculated on the Canadian dollar value of the goods, including duty and excise tax. Applied only in Alberta, British Columbia, Manitoba, the Northwest Territories, Nunavut, Quebec, Saskatchewan, and the Yukon Territory.", "formula": "Amount = (DPV + EXCISE) * 0.05", "amount": 5.0 } }] }] } }</pre>

* If you encounter below error message, please check and get the valid HS code (minimum 10-digit), via FedEx Global Trade Manager online at fedex.com/gtm and try again.

```
{
  "code": "EDT.DETAILS.MISSING",
  "message": "The harmonized code for the commodity at array index {COMMODITY_INDEX} is
missing or invalid; estimated duties and taxes were not returned."
},
```

For technical assistance related to FedEx API, please reach out to your local Customer Technology representative or send an email to APAC FedEx API support team at apacfedexapi@fedex.com.

Points to remember

- Duties and taxes estimate will only be returned if the customer is paying all shipping charges and all duties and taxes OR if the customer is paying just the shipping charges (i.e., billing duties and taxes to recipient or third party). If shipping charges are billed to recipient or third party the system will not return an estimate.
- The origin/destination pair must be among those countries/territories supported by the FedEx Trade Tools system. Please refer to [appendix](#) for details.
- Currently, several countries/territories are supported by Estimate Duties and Taxes, but FedEx may add additional countries/territories in the future. Results will only be applicable to the country/territory of origin, country/territory of manufacture and country/territory of ultimate destination as selected by the user.
- This provides estimated charges only and final charges may vary.
- Duty and tax results from use of this feature may change based on fluctuations in exchange rates or changes to tariff rates.
- The estimate returned includes shipping charges and estimates on duties and taxes only. It is not a total landed cost. Total landed costs may encompass a wide variety of additional charges not included in this estimate.
- For multiple product shipments to countries/territories which use the Cost, Insurance and Freight (CIF) value as the basis for customs valuation, Estimate Duties and Taxes distributes insurance and freight costs proportionately to each product. This distribution will either be based as a percentage of product weight or product value depending on the rules of the destination country/territory. For countries/territories that do not use CIF as the basis for customs valuation, transportation and insurance costs are excluded from the calculation. Currently, the Estimated Duties and Taxes feature will not generate compound duty rates and calculations.
- All duty and tax estimates are calculated based upon the lowest available preferential trade agreement rate in effect for the countries/territories selected. If the product does not meet the eligibility criteria for the preferential trade agreement, the actual charges may be higher than the estimate returned. A duty and tax estimate will be returned based upon the value of each individual commodity in a package and not on the aggregate package value.

Appendix

List of Supported Countries/Territories for Estimated Duties and Taxes

Argentina	Hungary	Portugal
Australia	India	Puerto Rico
Austria	Indonesia	Romania
Belgium	Ireland	Russian Federation
Brazil	Israel	Saudi Arabia
Bulgaria	Italy	Singapore
Canada	Japan	Slovak Republic
Chile	South Korea	Slovenia
China PRC	Kuwait	South Africa
Costa Rica	Latvia	Spain
Cyprus	Lithuania	Sweden
Czech Republic	Luxembourg	Switzerland
Denmark	Malaysia	Taiwan
Dominican Republic	Malta	Thailand
Estonia	Mexico	Turkey
Finland	Netherlands	United Arab Emirates
France	New Zealand	United Kingdom
Germany	Norway	United States of America
Greece	Philippines	Venezuela
Hong Kong	Poland	Vietnam

* This list is subject to change, and service to and from certain countries/territories may be restricted, resumed or discontinued without notice.