

# CouriersPlease International Quote API Documentation



CouriersPlease

API Version: 1.0.0

## 1. VERSION CONTROL

Version	Date	Notes	Author
1.0.0	10/06/2016	Initial version.	Jeff Embro (CouriersPlease)
1.0.1	16/06/2016	Updated country codes.	Jeff Embro (CouriersPlease)
1.0.2	07/07/2016	Suburb, postcode and country validation.	Jeff Embro (CouriersPlease)
1.0.3	25/10/2016	Fixed urls.	Jeff Embro (CouriersPlease)

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### 3. OVERVIEW

This document defines the API in which E-Merchants can obtain a list of eligible rates for a consignment based on the customer's rate card. The rate card information (Service Code) returned from this API is to be used when using the International Shipment Create API.

### 4. CONSUMES

JSON

### 5. OUTPUT FORMATS

JSON

XML

### 6. HTTP METHOD

POST

### 7. URLS

#### 7.1. SANDBOX

While developing and testing use the sandbox URL:

<https://api-test.couriersplease.com.au/v1/international/quote>

#### 7.2. PRODUCTION

After deploying to live use the production URL:

<https://api.couriersplease.com.au/v1/international/quote>

### 8. SECURITY

API security is controlled by CouriersPlease. CouriersPlease controls the following:

1. Access to the Sandbox environment
2. Access to the Production environment
3. Access to each individual API
4. Enable/disable a token
5. Hourly and daily limits

If you require security changes please contact CouriersPlease API support: [apisupport@couriersplease.com.au](mailto:apisupport@couriersplease.com.au).

### 8.1. AUTHENTICATION

API Validation is performed through HTTP Basic Authentication using the CouriersPlease Account Number and Authorization Token.

User Name: CouriersPlease Account Number

Password: Sandbox or Production Token provided from the CouriersPlease API Developer Portal

When using HTTP Basic Authentication the User Name and Password must be Base64 encoded in the header.

If your CouriersPlease Account Number is W99999 and your token is ABC123456789 your Authentication Header would be "Authorization: Basic W99999:ABC123456789" before encoding it. Once encoded, it should look as follows: "Authorization: Basic VzK5OTk5OkFCQzEyMzQ1Njc4OQ=="

### 8.2. SSL ENCRYPTION

The API Endpoints and Portal are encrypted using SSL as follows:

SSL Attribute	SSL Detail
Signature Hash Algorithm	sha256
Public Key	RSA (2048 Bits)

## 9. REQUEST

### 9.1. REQUEST PARAMETERS

Name	Type
<b>fromSuburb (Optional)</b>	String Suburb Required only when AU (Australia) is the fromCountryCode If AU is the fromCountryCode use the Locations API to obtain a valid suburb
<b>fromPostcode (Optional)</b>	String Postcode Required only when AU (Australia) is the fromCountryCode If AU is the fromCountryCode use the Locations API to obtain a valid postcode
<b>fromCountryCode (Required)</b>	String From Country Use the Countries API to obtain valid a valid country code
<b>toSuburb (Optional)</b>	String Suburb Required only when AU (Australia) is the toCountryCode
<b>toPostcode (Optional)</b>	String Postcode Required only when AU (Australia) is the toCountryCode
<b>toCountryCode (Required)</b>	String To Country Use the Countries API to obtain valid a valid country code

<b>items (Required)</b>	Object At least one item object is required. See table 9.1.1 below.
-------------------------	--

## 9.1.1. ITEMS

Name	Type
<b>quantity (Required)</b>	Integer Range: 1-99
<b>length (Required)</b>	Integer Length of the item (CM) Range: 1-180
<b>width (Required)</b>	Integer Width of the item (CM) Range: 1-180
<b>height (Required)</b>	Integer Height of the item (CM) Range: 1-180
<b>physicalWeight (Required)</b>	Decimal 2 decimal places Physical weight of the item (KG) Range: 0.01-30.00

## 9.2. SAMPLE REQUEST THAT RETURNS JSON

Below is a sample request that returns JSON. The HTTP Request Header must contain application e.g.) "Accept: application/json". Ensure the user name and password is Base64 encoded in the authorization header as specified in the Authentication section of this document.

### 9.2.1. REQUEST

POST https://api-test.couriersplease.com.au/v1/international/quote HTTP/1.1

### 9.2.2. REQUEST HEADER

Host: api-test.couriersplease.com.au  
Accept: application/json  
Content-Type: application/json  
Authorization: Basic VzK50Tk50kFCQzEymZQ1Njc4OQ==  
Content-Length: 350

### 9.2.3. REQUEST BODY

```
{
  "fromSuburb": "Eastgardens",
  "fromCountryCode": "AU",
  "fromPostcode": "2036",
  "toSuburb": "",
  "toPostcode": "",
  "toCountryCode": "NZ",
  "items": [
    {
      "quantity": 1,
      "length": 10,
      "height": 10,
      "width": 10,

```

```
    "physicalWeight": 0.4
  }
]
```

### 9.3. SAMPLE REQUEST THAT RETURNS XML

Below is a sample request that returns XML. The HTTP Request Header must contain application e.g.) "Accept: application/xml". Ensure the user name and password is Base64 encoded in the authorization header as specified in the Authentication section of this document.

#### 9.3.1. REQUEST URL

POST <https://api.couriersplease.com.au/v1/international/quote> HTTP/1.1

#### 9.3.2. REQUEST HEADER

Host: api.couriersplease.com.au  
Accept: application/xml  
Content-Type: application/json  
Authorization: Basic VzK5OTk5OkFCQzEyMzQ1Njc4OQ==  
Content-Length: 350

#### 9.3.3. REQUEST BODY

```
{
  "fromSuburb": "Eastgardens",
  "fromCountryCode": "AU",
  "fromPostcode": "2036",
  "toSuburb": "",
  "toPostcode": "",
  "toCountryCode": "NZ",
  "items": [
    {
      "quantity": 1,
      "length": 10,
      "height": 10,
      "width": 10,
      "physicalWeight": 0.4
    }
  ]
}
```

## 10. RESPONSE

Each request will return both an HTTP Status Code and a Response Code, which can be used to understand if the request was successfully processed. Either JSON or XML is returned based on the request Accept header.

### 10.1. HTTP STATUS CODES

Code	Details	Action
200	The request was successfully processed.	
400	There was an issue with the input request or data.	Based on the responseCode, an exception should be raised in the integrating application.
401	There was an issue with authorization.	Based on the responseCode, an exception should be raised in the integrating application.
500	The request could not be processed because of an internal API issue.	Retry the request. If the problem persists please contact CouriersPlease API support <a href="mailto:apisupport@couriersplease.com.au">apisupport@couriersplease.com.au</a>

## 10.2. RESPONSE CODES

Code	Details	Action
<b>SUCCESS</b>	The request was successfully processed.	
<b>INVALID_INPUT</b>	The request could not be completed because the input provided was invalid.	The msg element of the response will include the error message.
<b>UNAUTHORIZED</b>	The request could not be completed due to insufficient access.	The msg element of the response will include the error message.
<b>SERVICE_UNAVAILABLE</b>	The service is unavailable.	Raise an exception.

## 10.3. OUTPUT

The output in this API will return estimated freight charges for eligible service code(s). The rates returned are based on the customer's rate card and the dimensions entered. The ServiceCode field returned from this API is be used to when using the International Shipment Create API.

Total charge needs to be calculated. The calculation is **CalculatedFreightCharge + CalculatedFuelSurCharge**

There is no GST on an international consignment.

The APIs **don't** have the ability to calculate Enhanced Liability Insurance at the time of the quote. This can only be done after data is entered using the International Validate or Create endpoints. See the International Validate and Ship API Document on how to calculate Enhanced Liability Insurance.

A successful API response where HTTPS Status Code = 200 and Response Code = SUCCESS will return an object structured as follows.

Name	Description
<b>CalculatedFreightCharge</b>	Freight charge  <b>NOTE:</b> Total charge = CalculatedFreightCharge + CalculatedFuelSurCharge
<b>CalculatedFuelSurCharge</b>	Fuel charge  <b>NOTE:</b> Total charge = CalculatedFreightCharge + CalculatedFuelSurCharge
<b>ETA</b>	Estimated time of arrival
<b>ServiceCode</b>	Service code. This will be used when creating a consignment.
<b>ServiceDescription</b>	Service Description
<b>Weight</b>	Total chargeable weight = greater of the physical weight or the volumetric weight

#### 10.4. SAMPLE JSON RESPONSE (SUCCESS – 200)

```
{
  "responseCode": "SUCCESS",
  "msg": "",
  "data": [
    {
      "CalculatedFreightCharge": "51.08",
      "CalculatedFuelSurCharge": "4.21",
      "ETA": "1-2 Business Days",
      "ServiceCode": "EXPA",
      "ServiceDescription": "Express Rate International Priority (A)",
      "Weight": "3.09"
    },
    {
      "CalculatedFreightCharge": "26.67",
      "CalculatedFuelSurCharge": "3.33",
      "ETA": "3-4 Business Days",
      "ServiceCode": "SAV",
      "ServiceDescription": "International Saver",
      "Weight": "3.09"
    }
  ]
}
```

#### 10.5. SAMPLE XML RESPONSE (SUCCESS – 200)

```
<ResponseTemplateOfArrayOfInternationalQuoteDetails xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <responseCode>SUCCESS</responseCode>
  <msg />
  <data>
    <InternationalQuoteDetails>
      <CalculatedFreightCharge>51.08</CalculatedFreightCharge>
      <CalculatedFuelSurCharge>4.21</CalculatedFuelSurCharge>
      <ETA>1-2 Business Days</ETA>
      <ServiceCode>EXPA</ServiceCode>
      <ServiceDescription>Express Rate International Priority (A)</ServiceDescription>
      <Weight>3.09</Weight>
    </InternationalQuoteDetails>
    <InternationalQuoteDetails>
      <CalculatedFreightCharge>26.67</CalculatedFreightCharge>
      <CalculatedFuelSurCharge>3.33</CalculatedFuelSurCharge>
      <ETA>3-4 Business Days</ETA>
      <ServiceCode>SAV</ServiceCode>
      <ServiceDescription>International Saver</ServiceDescription>
      <Weight>3.09</Weight>
    </InternationalQuoteDetails>
  </data>
```



</ResponseTemplateOfArrayOfInternationalQuoteDetails>

### 10.6. SAMPLE JSON RESPONSE (INVALID INPUT - 400)

```
{
  "responseCode": "INVALID_INPUT",
  "msg": "Data Validation Error",
  "data": {
    "errors": [
      {
        "type": "Required Field",
        "field": "fromCountry",
        "description": "Please enter from country."
      },
      {
        "type": "Required Field",
        "field": "toCountry",
        "description": "Please enter to country."
      }
    ]
  }
}
```

### 10.7. SAMPLE XML RESPONSE (INVALID INPUT - 400)

```
<ResponseTemplateOfResponseErrorTemplate xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <responseCode>INVALID_INPUT</responseCode>
  <msg>Data Validation Error</msg>
  <data>
    <errors>
      <ParameterValidationError>
        <type>Required Field</type>
        <field>fromCountry</field>
        <description>Please enter from country.</description>
      </ParameterValidationError>
      <ParameterValidationError>
        <type>Required Field</type>
        <field>toCountry</field>
        <description>Please enter to country.</description>
      </ParameterValidationError>
    </errors>
  </data>
</ResponseTemplateOfResponseErrorTemplate>
```

#### 10.8. SAMPLE JSON RESPONSE (UNAUTHORIZED - 401)

```
{
  "responseCode": "UNAUTHORIZED",
  "msg": "Not a valid token.",
  "data": ""
}
```

#### 10.9. SAMPLE XML RESPONSE (UNAUTHORIZED - 401)

```
<ResponseTemplateOfString xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <responseCode>UNAUTHORIZED</responseCode>
  <msg> Not a valid token.</msg>
  <data />
</ResponseTemplateOfString>
```

### GLOSSARY

Term	Definition
<b>API (Application Programming Interface)</b>	A set of computer functions for software. There is no graphical user interface like a widget.
<b>Widget</b>	A graphical user interface for software
<b>Plugin</b>	A software component that adds a feature to an existing computer program. Also called an add-in or add-on.
<b>E-Merchant</b>	Electronic retailer
<b>Domestic</b>	Freight shipped within Australia
<b>International</b>	Freight shipped to and/or from outside of Australia
<b>Sandbox</b>	API environment for testing and integration
<b>Production</b>	Live API environment