

CouriersPlease Domestic Quote API Documentation



CouriersPlease

API Version: 1.0.4

1. VERSION CONTROL

Version	Date	Notes	Author
1.0.0	15/06/2016	Initial version.	Jeff Embro (CouriersPlease)
1.0.1	07/07/2016	Suburb and postcode validation	Jeff Embro (CouriersPlease)
1.0.2	26/10/2016	Fixed urls.	Jeff Embro (CouriersPlease)
1.0.3	21/02/2017	Updated satchel information.	Jeff Embro (CouriersPlease)
1.0.4	11/12/2018	Physical and volume weight restriction changes	Kalpesh Pandya (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 returned from this API is to be used to when using the Domestic Shipment Create API.

Please note, in relation to Satchels, the Domestic Quote API does not determine if an item can physically fit into a Satchel. Though the Satchels are designed to accommodate items up to a specific weight and volume the item's dimensions and physical attributes may render it unsuitable to be placed into a Satchel.

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/domestic/quote>

7.2. PRODUCTION

After deploying to live use the production URL:

<https://api.couriersplease.com.au/v1/domestic/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.

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
fromSuburb (Required)	String Valid Australian suburb Use the Locations API to obtain a valid suburb
fromPostcode (Required)	String Valid Australian postcode e.g.) 2000, 0800 Use the Locations API to obtain a valid postcode
toSuburb (Required)	String Valid Australian suburb Use the Locations API to obtain a valid suburb
toPostcode (Required)	String Valid Australian postcode e.g.) 2000, 0800 Use the Locations API to obtain a valid postcode
items (Required)	Object At least one item object is required. See table 9.1.1 below.

9.1.1. ITEMS

Name	Type
quantity (Required)	Integer Range: 1-99
length (Required)	Integer Length of the item (CM) Range: 1-180
width (Required)	Integer Width of the item (CM) Range: 1-180
height (Required)	Integer Height of the item (CM) Range: 1-180
physicalWeight (Required)	Decimal 2 decimal places Physical weight of the item (KG) Range: 0.01-32.00

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/domestic/quote HTTP/1.1

9.2.2. REQUEST HEADER

Host: api-test.couriersplease.com.au
 Accept: application/json
 Content-Type: application/json
 Authorization: Basic VzK5OTk5OkFCQzEyMzQ1Njc4OQ==
 Content-Length: 462

9.2.3. REQUEST BODY

```
{
  "fromSuburb": "Melbourne",
  "fromPostcode": 3000,
  "toSuburb": "Sydney",
  "toPostcode": 2000,
  "items": [
    {
      "quantity": 10,
      "length": 10,
      "height": 10,
      "width": 100,
      "physicalWeight": 1.3
    },
    {
      "quantity": 2,
      "length": 10,

```

```

        "height" : 53,
        "width": 22,
        "physicalWeight": 8
    }
]
}

```

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/domestic/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: 462

```

9.3.3. REQUEST BODY

```

{
  "fromSuburb": "Melbourne",
  "fromPostcode": 3000,
  "toSuburb": "Sydney",
  "toPostcode": 2000,
  "items": [
    {
      "quantity": 10,
      "length": 10,
      "height" : 10,
      "width": 100,
      "physicalWeight": 1.3
    },
    {
      "quantity": 2,
      "length": 10,
      "height" : 53,
      "width": 22,
      "physicalWeight": 8
    }
  ]
}

```

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 apisupport@couriersplease.com.au

10.2. RESPONSE CODES

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

10.3. OUTPUT

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

Please note, in relation to Satchels, the Domestic Quote API does not determine if an item can physically fit into a Satchel. Though the Satchels are designed to accommodate items up to a specific weight and volume the item's dimensions and physical attributes may render it unsuitable to be placed into a Satchel.

The total quoted value needs to be calculated. GST needs to be applied to the calculation. The calculation is:

CalculatedFreightCharge + CalculatedFuelCharge + GST

GST = 10% of (CalculatedFreightCharge + CalculatedFuelCharge)

Example

CalculatedFreightCharge = \$19.00

CalculatedFuelCharge = \$1.81

GST = 10% of (\$19.00 + \$1.81)

Total Quoted Value Calculation = (\$19.00 + \$1.81) + (10% of (\$19.00 + \$1.81))

Total Quoted Value Result = \$22.89

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

Name	Description
CalculatedFreightCharge	Freight charge NOTE: Total charge = CalculatedFreightCharge + CalculatedFuelCharge + GST
CalculatedFuelCharge	Fuel charge NOTE: Total charge = CalculatedFreightCharge + CalculatedFuelCharge + GST
ETA	Estimated time of arrival
PickupCutOffTime	Pickup cut off time
RateCardCode	Rate card code. This will be used when creating a consignment.
RateCardDescription	Rate Card Description
Weight	Total chargeable weight - greater of the physical weight or the volumetric weight

10.4. SAMPLE JSON RESPONSE (SUCCESS – 200)

```
{
  "responseCode": "SUCCESS",
  "msg": "",
  "data": [
    {
      "CalculatedFreightCharge": "70.55",
      "CalculatedFuelCharge": "6.70",
      "ETA": "1 Business Days",
      "PickupCutOffTime": "15:00",
      "RateCardCode": "DSL",
      "RateCardDescription": "Domestic Priority - Signature Required",
      "Weight": "30.83"
    },
    {
      "CalculatedFreightCharge": "72.71",
      "CalculatedFuelCharge": "0.00",
      "ETA": "OverNight Guaranteed*",
      "PickupCutOffTime": "15:00",
      "RateCardCode": "PE5",
      "RateCardDescription": "Australian City Express - Signature Required ",
      "Weight": "30.83"
    }
  ],
}
```



```
{
  "CalculatedFreightCharge": "70.71",
  "CalculatedFuelCharge": "0.00",
  "ETA": "OverNight Guaranteed*",
  "PickupCutOffTime": "15:00",
  "RateCardCode": "CE5",
  "RateCardDescription": "Australian City Express - Authority To Leave",
  "Weight": "30.83"
},
{
  "CalculatedFreightCharge": "45.50",
  "CalculatedFuelCharge": "0.00",
  "ETA": "1 Business Days",
  "PickupCutOffTime": "15:00",
  "RateCardCode": "PEC",
  "RateCardDescription": "Domestic Saver - Signature Required ",
  "Weight": "30.83"
},
{
  "CalculatedFreightCharge": "43.50",
  "CalculatedFuelCharge": "0.00",
  "ETA": "1 Business Days",
  "PickupCutOffTime": "15:00",
  "RateCardCode": "REC",
  "RateCardDescription": "Domestic Saver - Authority To Leave",
  "Weight": "30.83"
}
]
}
```

10.5. SAMPLE XML RESPONSE (SUCCESS – 200)

```
<ResponseTemplateOfArrayOfQuoteCalculatorDetails xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <responseCode>SUCCESS</responseCode>
  <msg />
  <data>
    <QuoteCalculatorDetails>
      <CalculatedFreightCharge>70.55</CalculatedFreightCharge>
      <CalculatedFuelCharge>6.70</CalculatedFuelCharge>
      <ETA>1 Business Days</ETA>
      <PickupCutOffTime>15:00</PickupCutOffTime>
      <RateCardCode>DSL</RateCardCode>
      <RateCardDescription>Domestic Priority - Signature Required</RateCardDescription>
      <Weight>30.83</Weight>
    </QuoteCalculatorDetails>
    <QuoteCalculatorDetails>
      <CalculatedFreightCharge>72.71</CalculatedFreightCharge>
      <CalculatedFuelCharge>0.00</CalculatedFuelCharge>
      <ETA>OverNight Guaranteed*</ETA>
```

```

    <PickupCutOffTime>15:00</PickupCutOffTime>
    <RateCardCode>PE5</RateCardCode>
    <RateCardDescription>Australian City Express - Signature Required </RateCardDescription>
    <Weight>30.83</Weight>
  </QuoteCalculatorDetails>
  <QuoteCalculatorDetails>
    <CalculatedFreightCharge>70.71</CalculatedFreightCharge>
    <CalculatedFuelCharge>0.00</CalculatedFuelCharge>
    <ETA>OverNight Guaranteed*</ETA>
    <PickupCutOffTime>15:00</PickupCutOffTime>
    <RateCardCode>CE5</RateCardCode>
    <RateCardDescription>Australian City Express - Authority To Leave</RateCardDescription>
    <Weight>30.83</Weight>
  </QuoteCalculatorDetails>
  <QuoteCalculatorDetails>
    <CalculatedFreightCharge>45.50</CalculatedFreightCharge>
    <CalculatedFuelCharge>0.00</CalculatedFuelCharge>
    <ETA>1 Business Days</ETA>
    <PickupCutOffTime>15:00</PickupCutOffTime>
    <RateCardCode>PEC</RateCardCode>
    <RateCardDescription>Domestic Saver - Signature Required </RateCardDescription>
    <Weight>30.83</Weight>
  </QuoteCalculatorDetails>
  <QuoteCalculatorDetails>
    <CalculatedFreightCharge>43.50</CalculatedFreightCharge>
    <CalculatedFuelCharge>0.00</CalculatedFuelCharge>
    <ETA>1 Business Days</ETA>
    <PickupCutOffTime>15:00</PickupCutOffTime>
    <RateCardCode>REC</RateCardCode>
    <RateCardDescription>Domestic Saver - Authority To Leave</RateCardDescription>
    <Weight>30.83</Weight>
  </QuoteCalculatorDetails>
</data>
</ResponseTemplateOfArrayOfQuoteCalculatorDetails>

```

10.6. SAMPLE JSON RESPONSE (INVALID INPUT - 400)

```

{
  "responseCode": "INVALID_INPUT",
  "msg": "Data Validation Error",
  "data": {
    "errors": [
      {
        "type": "Required Field",
        "field": "toPostcode",
        "description": "Please select To Postcode."
      },
      {
        "type": "Required Field",
        "field": "toSuburb",

```

```

        "description": "Please select To Suburb."
    }
]
}
}

```

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>toPostcode</field>
        <description>Please select To Postcode.</description>
      </ParameterValidationError>
      <ParameterValidationError>
        <type>Required Field</type>
        <field>toSuburb</field>
        <description>Please select To Suburb.</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
API (Application Programming Interface)	A set of computer functions for software. There is no graphical user interface like a widget.
Widget	A graphical user interface for software
Plugin	A software component that adds a feature to an existing computer program. Also called an add-in or add-on.
E-Merchant	Electronic retailer
Domestic	Freight shipped within Australia
International	Freight shipped to and/or from outside of Australia
Sandbox	API environment for testing and integration
Production	Live API environment