

# CouriersPlease Coupon Calculator API Documentation



CouriersPlease

API Version: 1.0.0

## 1. VERSION CONTROL

Version	Date	Notes	Author
<b>1.0.0</b>	07/07/2016	Initial version.	Jeff Embro (CouriersPlease)
<b>1.0.1</b>	26/10/2016	Fixed urls.	Jeff Embro (CouriersPlease)

## 2. TABLE OF CONTENTS

1. Version Control.....	1
2. Table of Contents.....	1
3. Overview.....	2
4. Consumes .....	2
5. Output Formats .....	2
6. HTTP Method.....	2
7. URLs.....	2
7.1. Sandbox.....	2
7.2. Production.....	2
8. Security .....	2
8.1. Authentication .....	3
8.2. SSL Encryption.....	3
9. Request.....	3
9.1. Request Parameters.....	3
9.2. Sample Request That Returns JSON.....	4
9.2.1. Request.....	4
9.2.2. Request Header .....	4
9.2.3. Request Body .....	4
9.3. Sample Request That Returns XML.....	4
9.3.1. Request URL.....	4
9.3.2. Request Header .....	5
9.3.3. Request Body .....	5
10. Response .....	5
10.1. HTTP Status Codes .....	5
10.2. Response Codes .....	5
10.3. Output.....	6
10.4. Sample JSON Response (Success – 200).....	6
10.5. Sample XML Response (Success – 200).....	6
10.6. Sample JSON Response (Invalid Input - 400).....	6
10.7. Sample XML Response (Invalid Input - 400).....	7
10.8. Sample JSON Response (Unauthorized - 401).....	7

10.9. Sample XML Response (Unauthorized - 401) .....	7
Glossary .....	8

### 3. OVERVIEW

This document defines the API which E-Merchants can use to return the number of coupons, links or satchels that will be required when shipping domestic freight.

### 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/couponcalculator>

#### 7.2. PRODUCTION

After deploying to live use the production URL:

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

### 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 (Required)</b>	String From suburb Valid Australian Suburb Use the Locations API to obtain valid suburbs
<b>fromPostcode (Required)</b>	String From postcode Valid Australian Postcode Use the Locations API to obtain valid postcodes
<b>toSuburb (Required)</b>	String To suburb Valid Australian Suburb Use the Locations API to obtain valid suburbs
<b>toPostcode (Required)</b>	String To postcode Valid Australian Postcode Use the Locations API to obtain valid postcodes
<b>satchel (Required)</b>	Boolean Satchel = true Parcel = false
<b>length (Required)</b>	Integer Length of item (CM)

	Range: 1-180
<b>width (Required)</b>	Integer Width of item (CM) Range: 1-180
<b>height (Required)</b>	Integer Height of item (CM) Range: 1-180
<b>physicalWeight (Required)</b>	Decimal 2 decimal places Physical weight of the item Range for Parcels: 0.01-40.00 Range for Satchels: 0.01-5.00

## 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/couponcalculator> 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: 186

### 9.2.3. REQUEST BODY

```
{
  "fromSuburb": "Melbourne",
  "fromPostcode": 3000,
  "toSuburb": "Sydney",
  "toPostcode": 2000,
  "satchel": false,
  "length": 10,
  "height": 10,
  "width": 10,
  "physicalweight": 1.0
}
```

## 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/couponcalculator> 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: 186
```

### 9.3.3. REQUEST BODY

```
{
  "fromSuburb": "Melbourne",
  "fromPostcode": 3000,
  "toSuburb": "Sydney",
  "toPostcode": 2000,
  "satchel": false,
  "length": 10,
  "height": 10,
  "width": 10,
  "physicalweight": 1.0
}
```

## 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.

### 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
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 how many coupons or satchels a customer will need when shipping domestic freight. The returned values will be based on the origin, destination and the dimensions of the freight.

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

Name	Description
<b>ETA</b>	Estimated time of arrival
<b>EzyLinks</b>	How many EzyLink coupons required
<b>Metro</b>	How many Metro coupons required
<b>Satchels</b>	How many Satchels are required

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

```
{
  "responseCode": "SUCCESS",
  "msg": "",
  "data": {
    "ETA": "1 Business Days",
    "EzyLinks": "2",
    "Metro": "1",
    "Satchels": "0"
  }
}
```

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

```
<ResponseTemplateOfCouponResponse xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">
  <responseCode>SUCCESS</responseCode>
  <msg />
  <data>
    <ETA>1 Business Days</ETA>
    <EzyLinks>0</EzyLinks>
    <Metro>0</Metro>
    <Satchels>1</Satchels>
  </data>
</ResponseTemplateOfCouponResponse>
```

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

```
{
  "responseCode": "INVALID_INPUT",
  "msg": "Data Validation Error",
  "data": {
    "errors": [
      {
```

```

    "type": "Required Field",
    "field": "fromPostcode",
    "description": "Please enter from postcode."
  },
  {
    "type": "Required Field",
    "field": "toPostcode",
    "description": "Please enter to postcode."
  }
]
}
}

```

#### 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>fromPostcode</field>
        <description>Please enter from postcode.</description>
      </ParameterValidationError>
      <ParameterValidationError>
        <type>Required Field</type>
        <field>toPostcode</field>
        <description>Please enter to postcode.</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