

# JoeyCo API Documentation

## Version 0.5

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# Change Log

Date	Version	Notes
October 24, 2014	0.1	Initial document
December 8, 2014	0.2	<ul style="list-style-type: none"><li>• Added third party order type</li><li>• Added delivery charge input</li><li>• Added credit card payment type</li></ul>
February 9, 2015	0.3	<ul style="list-style-type: none"><li>• Removed status code pages.</li><li>• Added optional PIN with checkout request.</li><li>• Added signature to request sample.</li></ul>
February 22, 2015	0.3.1	<ul style="list-style-type: none"><li>• Updated <code>payment_method</code> constraint to cash only.</li><li>• Added new flag for sending the PIN to the customer.</li><li>• Added default value column to request parameters.</li></ul>
March 16, 2015	0.3.2	<ul style="list-style-type: none"><li>• Added option for order type.</li><li>• Updated <code>payment_method</code> to include "none"</li></ul>
March 22, 2015	0.3.3	<ul style="list-style-type: none"><li>• Added tip option on checkout</li></ul>
May 7, 2015	0.4	Added option to pass <code>vendor_id</code> to delivery and checkout calls
June 18, 2015	0.4.1	Removed <code>is_cellphone</code> request parameter.
Feb 22, 2016	0.5	<ul style="list-style-type: none"><li>• Deprecating <code>prep_time</code> in favour of <code>due_time</code></li><li>• Deprecating <code>order_type</code>, value will be determined by server</li><li>• Ability to pass meta data to checkout API call</li><li>• <code>/vendors/list</code> response will be updated in a future release to have the order types removed.</li><li>• Added documentation to pass meta data to the order.</li></ul>

# Overview

Thank you for choosing JoeyCo, please find your new service API described in this document. The purpose of this API is for vendors to process and execute delivery sales. All delivery jobs are automatically dispatched to the best Joey in real time. The system returns the appropriate delivery charges and verifications needed to process a delivery job and purchase.

## Host

All requests to the JoeyCo API will be sent to the API host depending on the environment as listed in the table below:

Environment	Host (SSL)	Notes
Production	api.joeyco.com	
Sandbox	api.sandbox.joeyco.com	Requests to the API Sandbox requires an <b>HTTP Authorization</b> header. Username: <b>sandbox</b> Password: <b>sandbox172838</b>

## Common Response Objects

All response data is placed inside the response object, and meta information is placed on the same level as the response object.

---

### Copyright Notice

This property is returned with every response.

```
"copyright": "Copyright © 2014 JoeyCo Inc. All rights reserved."
```

---

### HTTP Status

The HTTP status code of the response will display the status code, and the message conforming to the [RFC 2616 - Section 10](#).

This property is returned with every response.

```
"http": {  
  "code": 200,  
  "message": "OK"  
}
```

---

## Location Object

```
"location": {
  "coordinates": {
    "lat": 43.65673,
    "lon": -79.38346
  },
  "address_components": [
    {
      "name": "123 The St",
      "code": null,
      "type": "address"
    },
    {
      "name": "Toronto",
      "code": null,
      "type": "city"
    },
    {
      "name": "Ontario",
      "code": "ON",
      "type": "division"
    },
    {
      "name": "Canada",
      "code": "CA",
      "type": "country"
    },
    {
      "name": "A1A1A1",
      "code": null,
      "type": "postal_code"
    },
    {
      "name": "1234",
      "code": null,
      "type": "buzzer"
    },
    {
      "name": "A-5",
      "code": null,
      "type": "suite"
    }
  ]
}
```

# Creating a Request Signature Token

---

## Introduction

Every application that uses the JoeyCo API is issued a pair of public and private access keys. The private key is only known by the developer and JoeyCo, and it will be used to create the Signature Token. The signature, and public API key are sent in the request as a HTTP GET parameters.

---

## Generating the Token

To generate the Signature Token, follow these steps:

1. HTTP method (GET, POST, PUT, DELETE)
2. Newline character (\n)
3. HTTP Content-Type value
4. Newline character (\n)
5. Customer HTTP header "Jco-Timestamp" which will hold the current UNIX timestamp
6. Newline character (\n)
7. The request URI path including the query string, and the key parameter (/checkout/pos)

Once these steps are completed, take the resulting string and generate a hash value using the HMAC SHA-512 algorithm, using the private key as the salt.

```
Example:
#!/bin/sh

printf "POST
application/json
1414018658
/checkout/pos?key=PUBLIC_KEY" | openssl dgst -sha512 -hmac "PRIVATE_KEY"
```

---

## Making the Request

To make the request, you will need to use the Signature Token create above, and the public API key provided by JoeyCo, and use them as GET parameters in the request.

```
Example:
POST /checkout/pos?key=PUBLIC_KEY&signature=TOKEN HTTP/1.1
Host: api(.sandbox).joeyco.com
Content-Type: application/json
Jco-Timestamp: UNIX_TIMESTAMP
...
...
```

# Get Vendor List

## Description

This resource is used to get a list of vendors that you have access too. You will need to use the `id` from the response when creating checkout and delivery requests.

**NEW (v0.5):** The `order_types` property in the response body will be deprecated in a future release, and the list will only return a list of IDs and names.

## Request

HTTP Method	Resource
GET	/vendors/list

## HTTP Response Codes

Code	Description	Notes
200	OK	
403	Forbidden	Invalid API credentials provided
500	Internal Server Error	Our bad. If you encounter this, please let us know.

## Response Format

```
[
  {
    "id": 1234,
    "name": "Business Name"
    "order_types": [ ... ]
  },
  {
    "id": 5678,
    "name": "Another Business",
    "order_types": [ ... ]
  }
]
```



# Delivery Information

## Description

This resource is used to retrieve the distance and delivery cost for an address.

## Request

HTTP Method	Resource
POST	/order/delivery

## Request Body

```
{
  "vendor_id": 12345,
  "name": "John Smith",
  "email": "john@example.com",
  "address": "123 Sample St.",
  "postal_code": "A1A 1A1",
  "suite": "1201",
  "buzzer": "3138",
  "phone": "416123456"
}
```

Key	Type	Constraint	Default	Notes
vendor_id	int	required		JoeyCo vendor id
name	string	required		
email	string	required		
address	string	required		
postal_code	string	required		
suite	string	optional	none	
buzzer	string	optional	none	
phone	string	required		

---

## HTTP Response Codes

Code	Description	Notes
200	OK	
400	Bad Request	API will return error message object. Each key in the object will contain an array of messages related to that field.
403	Forbidden	Invalid API credentials provided
500	Internal Server Error	Our bad. If you encounter this, please let us know.

---

## Response Format

```
{
  "distance": {
    "value": 1234,
    "formatted": "12.34 km",
  },
  "cost": [
    {
      "name": "Label",
      "code": "label",
      "value": "$0.00"
    }
  ]
}
```

---

## Response Properties Description

Key	Type	Description
distance	object	Details in the next section
cost	array	Details in the next section

---

## Distance Properties Description

The distance object returns an object representing the distance in it's raw value, and formatted for display.

Key	Type	Description
value	string	The distance formatted for display. (eg: 12.34 km)

---

## Cost Properties Description

The cost property returns an array of the cost breakdown in the correct order that they need to be displayed in. The subtotal code is the same value entered while creating the request.

<b>Key</b>	<b>Type</b>	<b>Description</b>
name	string	A label to display
code	string	A unique code for this cost item
value	string	The amount formatted for display

# Checkout Order

## Request

HTTP Method	Resource
POST	/order/checkout

## Request Body

```
{
  "vendor_id": 1234,
  "payment_method" : "cash",
  "subtotal": 1.23,
  "due_time": 1456981590,
  "pin": "1234567890"
  "shipping_address" : {
    "name": "John Smith",
    "email": "john@example.com",
    "address": "123 Sample St.",
    "postal_code": "A1A 1A1",
    "suite": "1201",
    "buzzer": "3138",
    "phone": "416123456"
  },
  "meta" : {
    "order_number": 123457,
    "status_update": "https://example.com/status"
  }
}
```

Key	Type	Constraint	Default	Notes
vendor_id	int	required		JoeyCo vendor id.
payment_method	string	required	cash	Allowed values: cash, debit, none. <b>NOTE:</b> Debit option will email customer a link where they'll be able to pay using Credit Card or INTERAC e-Transfer®
subtotal	float	required		
tip	float	optional	0.00	
due_time	int	required		UNIX timestamp
pin	int	optional	none	The merchant's PIN
confirm_image	bool	optional	false	Request Joey to take a picture on pickup and drop-off

confirm_pin	bool	optional	true	Whether to send the PIN to the customer.
shipping_address	object	required		
meta	object	required		

**shipping\_address**

Key	Type	Constraint	Default	Notes
name	string	required		
email	string	required		
address	string	required		
postal_code	string	required		
suite	string	optional	none	
buzzer	string	optional	none	
phone	string	required		

**meta**

Key	Type	Constraint	Default	Notes
order_number	string	required		The order number from your system. This will be used to display to Joeys to verify with the merchant upon pickup.
status_update	URL	optional		Optionally subscribe to status updates.

## HTTP Response Codes

Code	Description	Notes
201	Created	Order was created successfully and will return a response similar to sample below.
400	Bad Request	API will return error message object. Each key in the object will contain an array of messages related to that field.
403	Forbidden	Invalid API credentials provided
500	Internal Server Error	Our bad. If you encounter this, please let us know.

---

## Sample Response

```
{
  "id": 1234,
  "num": "QO-1234",
  "pin": "6557",
  "payment_url": "https://www.joeyco.com",
  "cost": [
    {
      "name": "Total",
      "code": "subtotal",
      "value": "$10.00"
    },
    {
      "name": "Delivery Charge",
      "code": "delivery",
      "value": "$6.99"
    },
    {
      "name": "Tax",
      "code": "tax",
      "value": "$0.91"
    },
    {
      "name": "Grand Total",
      "code": "total",
      "value": "$17.90"
    }
  ]
}
```

---

## Response Properties Description

Key	Type	Description
id	int	The order ID
num	string	The order ID rendered with prefixed letters. Whenever the order number is to be displayed on screen, please use this value.
pin	int	The merchant's PIN code that Joey will be asking for when picking up the order.
cost	array	Details in the next section
payment_url	string	Returns a URL to redirect to

---

## Cost Properties Description

The cost property returns an array of the cost breakdown in the correct order that they need to be displayed in. The subtotal code is the same value entered while creating the request.

Key	Type	Description
name	string	A label to display
code	string	A unique code for this cost item
value	string	The amount formatted for display

# Status Updates

Unlike other requests in this document, this will be an outgoing request from JoeyCo servers to the URL provided in the checkout API request in the meta property.

---

## Request

HTTP Method	Resource
POST	The resource provided in the meta property of the checkout call.

---

## Request Body

```
{
  "code": "status",
  "message": {
    "id": 1234,
    "num": "O-1234",
    "status": {
      "id": 24,
      "description": "Looking for a Joey"
    }
  }
}
```

---

## Status IDs

ID	Description
13	Waiting for merchant to accept
14	Merchant accepted
15	Order is with Joey
17	Delivery success
24	Looking for a Joey
33	Merchant is editing the order
35	Merchant cancelled the order
36	Cancelled by JoeyCo
38	Draft
61	Scheduled order