Grab a Grub Services Private Limited

POS API Technical Documentation



# POS API Technical Documentation

Version 1.4.3

Grab a Grub Services Pvt. Ltd.



#### **DOCUMENT CONTROL**

This section provides details about the document, its type, classification and related references. It also tracks the changes to this document and acts as a version log. Modifications to this document can

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#### **API Overview**

This API will offer 'Delivery via GRAB' functionality for 3<sup>rd</sup> party applications like the following:

- Merchant POS System
- Food Ordering App

### **API Offerings**

Grab POS API offers the following:

- Create temporary Order
- Push finalized order
- Get Order details along with their respective status
- Cancel Order
- Client Dashboard which will have the following feature
  - Order details
  - Delivery Boy / Rider location tracking
  - API Keys
- Client API Callback Support

## **API Technical Specifications**

API Architecture / Standard – REST / RESTful
Request Method – POST (HTTP)
Request Data Format – JSON
Response Data Format – JSON
API Path (Development Environment) – <a href="http://dev.api.grab.in/pos/{api\_call}">http://dev.api.grab.in/pos/{api\_call}</a>
API Path (Live Environment) – <a href="http://api.grab.in/pos/{api\_call}">http://api.grab.in/pos/{api\_call}</a>

#### **Reference Links / Tools:**

- REST API: https://en.wikipedia.org/wiki/Representational state transfer
- POST: <a href="https://en.wikipedia.org/wiki/POST">https://en.wikipedia.org/wiki/POST</a> (HTTP)
- JSON: http://www.json.org/
- Online JSON Parser: http://json.parser.online.fr/
- Advanced Rest Client:

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Google Chrome:

https://chrome.google.com/webstore/detail/advanced-rest-client/hgmloofddffdnphfgcellkdfbfbjeloo

Mozilla FireFox: <a href="https://addons.mozilla.org/en-us/firefox/addon/restclient/">https://addons.mozilla.org/en-us/firefox/addon/restclient/</a>

## **API Keys**

There will be two different keys that will have to be embedded in the header of each API call:

- Public Key

Private Key

Client will need to send following parameters through Headers:

X-Public: PublicKey X-Hash: Hash

PublicKey - Unique Client Key for each Client that remains same for all the API calls. Hash - Hash Key changes every time according the content of Data (hash\_hmac).

**Reference Link:** <a href="http://websec.io/2013/02/14/API-Authentication-Public-Private-Hashes.html">http://websec.io/2013/02/14/API-Authentication-Public-Private-Hashes.html</a>

API Keys can be accessed from the following URL, login credentials will be provided upon request:

URL: http://admin.grab.in/Admin/

## **API Roadmap**

Ver.	Release Date
1.0	19 <sup>th</sup> May, 2015
1.1	11 <sup>th</sup> June, 2015
1.2	6 <sup>th</sup> July, 2015
1.3	3 <sup>rd</sup> September, 2015
1.4	23 <sup>rd</sup> September, 2015
1.4.1	12 <sup>th</sup> December, 2015
1.4.2	12 <sup>th</sup> February, 2016



#### **API Calls**

```
Create Merchant (Optional)
POST URL
URL: {api_path}/createmerchant/
REQUEST JSON
"clientId":"12",
"merchantId":"1238",
"merchantName":"XYZ",
"merchantAddress": "Andheri Link Road, Andheri West, 400053",
"merchantLat":"19.133430",
"merchantLong": "72.831706",
"merchantContact":"1234567890",
"merchantType":"R",
"merchantVerified":"0"
RESPONSE JSON – SUCCESS (Existing Merchant)
{
     "success": "1",
     "message": "Merchant Already Exists",
}
RESPONSE JSON – SUCCESS (Merchant Created Successfully)
{
     "success": "1",
     "message": "Merchant Created Successfully",
    "id": "merchantId"
}
RESPONSE JSON – ERROR
"success": "0",
"message" : "Some Error Occurred"
```



```
Create Order (Optional)
POST URL
URL: {api_path}/createorder/
REQUEST JSON
"clientId":"5",
"orderId":"0",
"merchantId":"54",
"dttm": "2016-02-12 12:55:21",
"customerPhone": "999999999",
"customerName":"ABC XYZ",
"deliveryAreaLat":"19.128983",
"deliveryAreaLong": "72.837421",
"customerAddressLine1":"Flat 22/26,602 Laxmi Plaza",
"customerAddressLine2": "Andheri Link Road, Andheri West, 400053",
"customerAddressLandMark": "NA",
"orderType":"COD",
 "comments": "Fast Delivery"
}
RESPONSE JSON – SUCCESS (ACCEPTED)
"success": "true",
"status": "101",
"orderId": "11058961",
"expectedRiderTime": "10",
"expectedDeliveryTime": "30",
"timestamp": "1402435791627"
}
RESPONSE JSON – SUCCESS (REJECTED)
"success": "true",
```

"status": "102",

"timestamp": "1402435791627"



```
}
RESPONSE JSON – ERROR
"success": "false",
"errorCode": "1"
}
Push Order (Mandatory)
POST URL
URL: {api_path}/pushorder/
REQUEST JSON
"clientId": "5",
"orderId": "11058961",
"clientOrderId": "12345678",
"prepTime":"20",
"merchantId":"54",
"dttm": "2016-02-12 12:55:21",
"customerPhone": "9999999999",
"customerName": "ABC XYZ",
"customerAddressLine1": "Flat 22/26,602 Laxmi Plaza",
"customerAddressLine2": "Andheri Link Road, Andheri West, 400053",
"customerAddressLandMark": "NA",
"billAmount":"500",
 "billNo":"1234",
 "orderType":"COD",
"amountPaidByClient":"0",
"amountCollectedInCash":"0",
"comments": "Fast Delivery"
}
RESPONSE JSON – SUCCESS
{
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```



```
"success": "true",
"orderId": "11058961",
"clientOrderId": "12345678",
"expectedDeliveryTime": "45",
"timestamp": "1402435791627"
RESPONSE JSON – ERROR
"success": "false",
"errorCode": "1"
Get Order Status (Optional)
POST URL
 URL: {api path}/getorderstatus/
REQUEST JSON
"clientId":"5",
"clientOrderId" : "12345678"
}
RESPONSE JSON – SUCCESSS
 "MerchantId":"111",
 "billNo":"566455",
"orderAmount":"550",
"orderStatus":"1",
 "deliveryBoyName":"Abc xyz",
 "deliveryBoyContact": "7888988800",
"deliveryBoyLat":"7888988800",
 "deliveryBoyLong":"7888988800",
 "requestTimestamp":"1402435791627"
}
RESPONSE JSON - ERROR
```



```
"success":"false",
"errorCode":"7",
"errorDescription":"Invalid Order Id"
}
Cancel Order (Optional)
URL: {api_path}/cancelorder/
REQUEST JSON
 "clientId":"5",
 "orderId":"12345"
"clientOrderId": "12345678",
"dttm":"2015-07-06 15:30:00",
"comment": "cancel reason"
}
RESPONSE JSON - SUCCESS
 "success":"true",
 "orderId":"12345",
 "clientOrderId": "12345678",
"timestamp":"1402435791627"
}
RESPONSE JSON - ERROR
"success": "false",
"errorCode": "1"
}
```

#### **Client API Callback**

Grab POS API offers Client API callback support per *Order* status change, callback data format should be JSON. Grab shall expect the client to provide callback API URL.



Typically the POST URL should look like:

http://clientdomain.extension/{callback\_url}/ and it should take *Order* data as request.

In response the callback should return value JSON indicating the result of the callback.

## **Important Data Definitions (Request Data)**

Field Name	Field Type	Description	Values Expected	Mandatory	Available Versions
clientId	Numeric	Unique client id generated by Grab to each client	Exact numeric value provided by Grab	YES	1.0 and above
orderld	Numeric	Grab Order Id	Unsigned Integer, 0, NA, null, NULL, Blank	NO	1.0 and above
clientOrderId	Numeric	Unique Order Id generated by Client	Unsigned Integer	YES	1.1 and above
customerAddressLine1	String	Minimal delivery address	String	YES	1.0 and above
customer Address Line 2	String	Minimal	String,	NO	1.0 and

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		delivery address	blank, NA, na, null, NULL		above
customer Address Land Mark	String	Minimal delivery address	String, blank, NA, na, null, NULL	NO	1.0 and above
billNo	Numeric	External Merchant Bill No. / Airway Bill No.	Unsigned Integer, 0, NA, null, NULL, Blank	NO	1.0 and above
billAmount	Numeric / Float	Order Amount	Unsigned Integer, Float, 0, NA, null, NULL, Blank	NO	1.0 and above
orderType	Characters	Payment mode of Order	Characters	YES	1.0 and above
amount Paid By Client	Numeric	Amount paid by end Customer	Unsigned Integer, 0, NA, null, NULL, Blank	YES	1.1 and above
amountCollectedInCash	Numeric	Amount collected by Delivery Boy / Rider from end Customer	Unsigned Integer, 0, NA, null, NULL, Blank	YES	1.1 and above
comment / comments	String	Comments per order	String, blank, NA, na, null, NULL	NO	1.0 and above
merchatName	String	External Merchant Name sent by Client	String, blank, NA, na, null, NULL	NO	1.4 and above
merchatld	Numeric	External Merchant Id sent by Client, to be mapped with Grab Merchant Id	Unsigned Integer, 0, NA, null, NULL, Blank	NO	1.4 and above
merchantAddress	String	External Merchant Address	String	YES	1.4 and above
merchantLat	Float / Double	External Merchant Latitude	Float / Double	YES	1.4 and above
merchantLong	Float / Double	External Merchant	Float / Double	YES	1.4 and above

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		Longitude			
merchantType	Character	External Merchant Type	Single Character	YES	1.4 and above
merchantVerified	Numeric	External Merchant Verified or Not	Unsigned Integer (0,1)	YES	1.4 and above

## **Important Data Definitions (Response Data)**

Field Name	Field Type	Description	Values Expected	Mandatory	Available Versions
orderStatus	Numeric	Grab Order Status	Refer to Appendix A	YES	1.0 and above
orderLat	Double / Float	Real time latitude of Delivery Boy / Rider delivering the Order	Double / Float, 0 (in case of a Non-smart Rider)	YES	1.2 and above
orderLong	Double / Float	Real time longitude of Delivery Boy / Rider delivering the Order	Double / Float, 0 (in case of a Non-smart Rider)	YES	1.2 and above
deliveryBoyName	String	Delivery Boy / Rider Name	String	YES	1.0 and above
deliveryBoyContact	Numeric	Delivery Boy / Rider Contact Number	Numeric	YES	1.0 and above
expectedDeliveryTime / expectedTimeForDelivery	Numeric (minutes)	Expected time for delivery (Merchant Order preparation time + Grab Delivery time)	Numeric	YES	1.2 and above



## **APPENDIX A: ORDER STATUS**

Numeric Value	String Value	Grab Description
1	ORDER_CREATED	New
2	ORDER_IN_PROCESS	Waiting
3	ASSIGNED_DELIVERY_BOY	Allocated
4	READY_FOR_DELIVERY	At Restaurant
5	OUT_FOR_DELIVERY	To Deliver
6	ORDER_DELIVERED	Delivered
99	ORDER_CANCELLED	Rejected / Cancelled
101	ORDER_ACCEPTED	Order Accepted
102	102 ORDER_REJECTED	

## **APPENDIX B: ORDER TYPE**

String Value	Grab Description
COD	Cash on Delivery
СС	Credit Card Payment
COM	Complementary
	Payment taken by Client
ONLINE_ASYNC	from the end customer via
	Online Payment

## **APPENDIX C: ERROR CODES**

Number Value	Error Description
1	Invalid Client Key
2	Invalid Secret Key
3	Parse Error: Bad JSON Format
4	Missing Mandatory Field
5	Parse Error: Bad Date Format
6	Parse Error: Bad Timestamp format

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7	Parse Error: Data Mismatch
8	Invalid Action
9	Pending Action
10	Duplicate Record

## **APPENDIX D: TECHNICAL CONTACTS**

SI. No.	Name	Designation	Mobile	Email
1	Pratish	Director	+91	pratish@grab.in
1	Sanghvi	Director	9819765050	<u>pratish@grab.m</u>
2	Sanu Menon	Project	+91	gany manan@grah in
	Saliu Melloli	Manager	9819539567	sanu.menon@grab.in
2	Nachiketa	Technology	+91	nachikata rajaurahit@grah in
3	Rajpurohit	Head	7718873743	nachiketa.rajpurohit@grab.in