

CMT Mobile API [Internal Only]

Confidential

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Date of CR Submission to:	

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Document Summary

CMT - Mobile API [Internal Only]

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Document Change History

Date of Change	Version	Reason for Change	Summary of Change	Author
November 1, 2012	1.0.1	Initial Draft		J. Backof
November 13,2012	1.0.2	Documentation Updates	Changed format of reponse object for POST,PUT,DELETE.	J. Backof
			Updated Authentication section w/ more information about oauth impl.	
			Added Session Management description.	
			Added general information & formats.	
			Added Link Resource.	
			Updated Precog resource based on recent documentation changes. Timestamps are now 8601	
November 16, 2012	1.0.3	Precog Updates	Added actionType and action to features for precog.	J. Backof
			Made the init non required on precog request	
			Removed message and allowed from feature response.	
November 20, 2012	1.0.4	General Updates	Added phoneNumber field	J. Backof

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January 9, 2013	1.0.5	Auth Changes	Changed Oauth to support oauth_token and token_secret used for authentication. Removed references to account id as this now derived from the oauth_token. Changed "accounts" resource to "account" Changed "auth" resource to return oauth_token and oauth_token_secret on successful login	J. Backof
January 22, 2013	1.0.6	Precog Changes	Removed init from response. HTTP Status indicates success/failure of precog message Minor structural changes	J. Backof
March 1, 2013	1.0.7	Precog Updates	Added alert, interval and updated example	J. Backof
May 7, 2013	1.0.8	Account and COF Updates	Added accountId to the account resource. Added card on file resources	J. Backof
May 7, 2013	1.0.9	COF Updates	Fixed field description, Added tokenize resource and authorize resource	J. Backof
May 17, 2013	1.0.10	Profile Updates	Added new profile fields to support default COF and tip amounts	J. Backof
June 12, 2013	1.0.11	Added new pairing functionality	Added callback url, default tip percentages and tip amounts to pairing resources. Added update pairing.	J. Backof
July 2, 2013	1.0.12	Updated exceptions	Updated error handling, added autoPay field to account and registration	M. Dalen
July 19, 2013	1.0.13	Updated pairing authorization resource	Removed fields from pairing authorization resource	M. Dalen
July 22, 2013	1.0.14	Trip resource	Added trip data resource.	M. Dalen
July 24, 2013	1.0.15	Card on file, trip resource, tokenization updates	Card on file creation now returns the id of the created card. Trip data now includes a total field. Card on file token update resource has been removed. Error codes returned by the tokenization and card authorization resources have been revamped.	M. Dalen
Aug. 7, 2013	1.0.16	Update password resource	Added ability to update password, registration confirmation	M. Dalen
Aug. 8, 2013	1.0.17	Reset password resource	Added ability to reset password	M. Dalen
Aug. 12, 2013	1.0.18	Fixed reset password resource	Reset password resource may now be called while not logged in.	M. Dalen
Aug. 26, 2013	1.0.19	Added error code to trip data resource	Error code 103 will notify that pairing has failed	M. Dalen
Aug. 30, 2013	1.1.0	Update password resource	Changed way parameters are passed to update password resource	M. Dalen
Oct. 29, 2013	1.1.1	Pairing initialization resources	Added pairing initialization resources which trigger acknowledgements from the vehicle; updated trip data resource to handle acknowledgements	M. Dalen

Feb. 6, 2014	1.1.2	History, Support, and Version resources	Added history, support, and version resources; added Mobile information fields to pairing requests	M. Dalen
Feb. 13, 2014	1.1.3	History format	Changed format of history resource to mirror Callbacks and Trip resource.	M. Dalen
March 5, 2014	1.1.4	Account update	Added phone to the list of fields in the account resources	M. Dalen
July 23, 2014	1.1.5	Fixed typos		M. Dalen
April 1, 2015	1.1.6	App version	Added app version to auth request Added app version conflict error code to authenticate and pairing resources	M. Dalen
April 2, 2015	1.1.7	SMS Validation	- Added SMS validation resources to Auth resource	M. Dalen
April 10, 2015	1.1.8	Deprecated	Removed deprecated resources	M. Dalen
June 3, 2015	1.1.9	Trip fields	Added accessFee and lastFour fields to the trip resource	M. Dalen
June 5, 2015	1.1.10	Last four field	Added lastFour field to pairing resource	M. Dalen
June 10, 2015	1.1.11	Time Zone	Changed timestamps in trip resource to local time	M. Dalen
June 16, 2015	1.1.12	Trip Request Number	Added trip request number to pairing requests	M. Dalen
July 6, 2015	1.1.13	Fixed errors	Fixed errors in tokenize, auth resources	M. Dalen
July 17, 2015	1.1.14	Lat/lon fields	Added lat and lon to trip resource for Arro only	M. Dalen
Aug 18, 2015	1.1.15	Device name	Added deviceName to /init/pairing resource for Arro only	M. Dalen
Sept 14, 2015	1.1.16	End-of-trip payment	Added error codes for card declines and processor errors at trip end	M. Dalen
Sept. 22, 2015	1.1.17	Tip incentive field	Added tip incentive field to pairing request	M. Dalen
Oct. 9, 2015	1.1.18	Validate resources, Payment resources, Flat fare disabled error code	Added documentation for new card validation resources Added documentation for new payment resources Added new error code for when flat fare is disabled	M. Dalen
Dec. 1, 2015	1.1.19	Added zip code	Added zip code to pairing request and cof resources	M. Dalen
Dec. 18, 2015	1.1.20	Added fraud- related fields	Added billing and fraud-related fields to the tokenize and pairing cof resources	M. Dalen
Jan. 5, 2016	1.1.21	Updated fraud- related fields	Added billing and fraud-related fields to the /validation and /cof resources Added IP address to fraud-related fields on all relevant resources	M. Dalen
Jan. 7, 2016	1.1.23	Updated card on file resource	Fixed error in /cof resource Added session id to non-cof pairing resource	M. Dalen
Jan. 13, 2016	1.1.24	Add billingFullName field	Added new billingFullName field to pairing request and payment resources	M. Dalen
Jan. 26, 2016	1.1.25	Pair by pimId	Added ability to pair by pimId (deviceName) for /init/pairing/cof requests	M. Dalen
March 25, 2016	1.1.27	Health check resource	Added a health check resource	M. Dalen

General Information

Overview

CMT's Mobile API provides programmatic access to CMT's Mobile Middleware services. These services include robust profile storage including preferences, address information and card on file storage. CMT's Mobile Middleware also accesses CMT's proprietary "precog" features for traffic management, e-hailing and intelligent dispatch.

Audience

The audience for this document is typically an application developer familiar with RESTful services, JSON and/or XML. Developers should also be familiar with oauth and/or general request signing techniques.

Getting Started with the API

To get started with the API, a developer must obtain credentials from CMT for authentication. Once authenticated, developers can access resources using standard RESTFul calls. CMT prefers that developers use JSON as the message format, but XML is also supported.

The Mobile API was designed to integrate directly with mobile devices and was not built for use in server to server applications. If you need to communicate directly with CMT systems outside of a mobile application, please contact CMT as there may be a more appropriate API available.

Dates/Times

All optional dates should be passed in as the <u>ISO 8601</u> date format, YYYY-MM-DDTHH:mm:ss+ UTC Offset. (eg. 2012-07-16T13:24:00+0000 is 1:24 pm on July 16, 2012 UTC).

Currency Codes

The currency codes used are from the standard ISO 4217 Currency Codes.

Amounts

Amounts do not include cents nor thousands delimiters. For a \$1,017.65 amount, 101765 is sent and the last 2 digits are assumed to be cents. All amounts are assumed to be in the currency code specified in the request. If a currency code is not given, USD is assumed to be the currency.

Integers

Integers are assumed to be a non-negative number unless otherwise stated.

Communication Overview

Accessing CMT's Mobile API is done via a direct connection from mobile device.

Transport

All resources support both XML or JSON and all communications are over SSL (HTTPS).

HTTP Response Codes

The following table lists the possible http response codes returned by the CMT Mobile API and their corresponding description.

Code	Description
200	Request processed successfully. Check responseCode field for additional status indicators.
201	Creation request processed successfully. 201 is typically returned on a POST request to create a resource.
400	Message format exception. This is typically returned when the message format is incorrect. Check the latest API docs.
401	Unauthorized. The response code is returned if: - Oauth authentication failure (could be an expired token)
403	Forbidden. Developers will receive this response code if they try to access a resource without proper authorization.
500	Server Error. Retry request.

HTTP Response Sub-Codes

The following table lists common sub-codes returned by all resources.

Code	Description
446	Validation exception. See response message.
444	Deserialization error. See response message.
443	Persistence error. See response message.
440	Unexpected error. See response message and contact CMT.

Authentication, Authorization

Introduction

Each request to the CMT Mobile API requires authentication. CMT employs a signature authentication strategy based on oauth 1.0a.

Authentication

To authenticate to the CMT Mobile API, implement or download a client based on oauth 1.0a. More information on oauth can be found at http://oauth.net and for information or third party resources and libraries, visit:

http://oauth.net

http://oauth.net/code/

http://hueniverse.com/oauth/guide/authentication/

Once your oauth client is in place, you will be provided an oauth consumer key and oauth consumer secret key. Please do not share your secret key with anyone and obfuscate any reference to this key in your libraries.

Field	Description
OAuth Consumer	Unique key which grants developers access to specific resources and
Key	fleets.
OAuth Consumer	Private key issued to developers which is used in the hashing
Secret Key	algorithm. See below.
OAuth Token	A token used for this session. Registration and Login do not require a valid OAuth Token. Developers will receive a valid token when a successful call is made to the /auth resource. This token expires and must be renewed after a set period of time.
OAuth Token	The OAuth Token Secret is supplied by CMT on a successful Auth and
Secret	must be used to sign all subsequent requests made by the client.

Sample Header

Below is a sample header request for an Mobile API oauth request.

```
request: account/
Accept:[application/json]
Authorization:[OAuth oauth_consumer_key="api-consumer-1", oauth_nonce="-
2277426177509978136", oauth_signature="5PICyq0XvXbwS2FvlAvMetaTxM0%3D",
oauth_signature_method="HMAC-SHA1", oauth_timestamp="1352825875", oauth_token="
ZTlhYzE1ZWMtZDMyNy00ZjFhLWJhNmQtMThiZmU2OGViNWJk", oauth_version="1.0"]
X-CMT-SessionToken:[MWZmNDcwNzQtZTMzZC00NjExLWEwMTItNTQ40GNiYWVmOTUy]
Content-Type:[application/json]
```

Authorization

Once a developer is properly authenticated to the CMT Mobile API, their credentials will be authorized for each resource request. If a developer is unauthorized to access a particular resource, a HTTP status of 403 (Forbidden) will be returned. Developers will also receive a 403 Status for accessing a resource which requires an OAuth token.

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API Resources

Registration Resource

The Registration resource provides a mechanism for developers to register user accounts with CMT.

Authentication Resource

Once an account is created and verified via email, users will be able to authenticate to the Mobile API. An oauth token is returned for that user and must be presented in all subsequent resource requests.

Account Resource

The Accounts resource provides developers access to the user's account information including preferences, addresses and card on file data.

Pairing Resource

The Pairing Resource provides access to CMT's pairing functionality for in-vehicle payment and trip reporting.

Trip Resource

The Trip resource provides access to information on trips made through the RideLinQ pairing process.

Tokenize Resource

The Tokenize resource provides a mechanism to store credit card on file information.

Authorization Resource

The Authorization resource provides access to CMT's payment authorization services.

Version Resource

The Version resource returns the current version of the RideLinQ app for a given Mobile OS.

Support Resource

The Support resource allows users to submit feedback or support requests, which are then emailed to a RideLinQ support contact.

History Resource

The History resource allows users to retrieve a list of recent trips.

Health Check Resource

The Health Check resource allows clients to confirm that MAPI is available.

Registration Resource

Summary

The Registration resource provides mechanisms to register and confirm the registration of a new Mobile API account.

Resource	Description
POST /registration	Registers a user in the Mobile API middleware
GET /registration/confirmation	Confirms a Mobile API Registration

POST / registration

Registers a user with the Mobile API middleware.

Resource URL

Production: https://mobile.cmtapi.com/v1/registration

Sandbox: https://mobile-sandbox.cmtapi.com/v1/registration

Request Field Description

Field	DataType	Size	Required	Notes
email	String	255	Υ	Email address associated with the account (also the login)
password	String	100	Υ	Password for the registration
firstName	String	35	Υ	First name on the account
lastName	String	35	Υ	Last name on the account
phone	String	50	N	Phone Number of the mobile device
twitterId	String	255	N	Used to link to a twitter account
facebookId	String	255	N	Used to link to a facebook account
linkedInId	String	255	N	Used to link to a linkedIn account
language	String	16	N	Language used. Defaults to en-us
autoPay	Boolean		N	If true, trips will auto-pay by default

Response Field Description

Field	DataType	Size	Required	Notes
responseCode	Integer		Υ	See Appendix for list of sub codes
message	String	255	N	Detailed message

Error Sub-codes (HTTP 400)

Code	Description
447	Existing Account Exception
445	Unauthorized

Example Request (POST)

POST URL: <u>https://mobile.cmtapi.com/v1/registration</u>

Request (JSON)

```
{
    "email":"test@cmtnyc.com",
    "lastName":"Test",
    "firstName":"User",
    "phone":"302-322-3456",
    "password":"filofaff",
    "language":"en-us",
    "autoPay":true
}
```

Successful Response (JSON)

HTTP Status: 201 (Created)

Unsuccessful Response (JSON) HTTP Status: 400

```
#ITP Status: 400
{
         "responseCode":444,
         "message":"Invalid Email Address"
}
```

GET /registration/confirm/:emailAddress/:confirmationToken

Confirms an existing registration for a user.

Resource URL

Production: https://mobile.cmtapi.com/v1/registration/confirm/:emailAddress/:confirmationToken Sandbox: https://mobile-sandbox.cmtapi.com/v1/registration/confirm/:emailAddress/:confirmationToken

URL Field Description

Field	DataType	Size	Required	Notes
emailAddress	String	255	Υ	Email address of the user
confirmationToken	String	255	Υ	Generated token for account confirmation

Error Sub-codes (HTTP 400)

Code	Description
441	Account not found
444	Invalid confirmation token

Example Request (GET)

GET URL: https://mobile.cmtapi.com/v1/registration/confirm/test@cmtyc.com/sda79qdfskue23darfdseFsd9

<u> 188w21</u>

Successful Response (JSON)

HTTP Status: 200 (Success)

```
HTTP Status: 400
{
     "responseCode":444,
     "message":"Invalid confirmation token."
}
```

Authentication Resource

Summary

This resource authenticates users in the Mobile API middleware. Note that the OAuth Token and OAuth Token secret are returned on this method. These values must be used to authentication and sign all subsequent requests (See Authentication section above).

Resource	Description
GET /auth	Authenticates a Mobile API User and provides oauth credentials for subsequent requests.

GET /auth

Authenticates a Mobile API User

Resource URL

Production: https://mobile.cmtapi.com/v1/auth

Sandbox: https://mobile-sandbox.cmtapi.com/v1/auth

Parameter Field Description

Field	DataType	Size	Required	Notes
emailAddress	UUID	255	Υ	Email address of the user
password	String	255	Υ	Password of the user
mobileOS	String	1	Υ	MobileOS id of app (See Appendix B)
appVersion	String	255	Υ	App version id in "X.X.X" format

Response Field Description

Field	DataType	Size	Required	Notes
oauthToken	String	255	Υ	Token to be used on all subsequent resource calls.
oauthTokenSecret	String	255	Υ	Token secret used to sign all subsequent resource calls.
oauthExpiresInSeconds	Integer	4	Y	Returns the number of seconds in which the oauth token will expire. Once the oauth token expires, developers will receive a 401 (unauthorized) and must authenticate again.

Error Sub-codes (HTTP 401)

Code	Description
417	Unable to create session token

Error Sub-codes (HTTP 400)

Code	Description				
418	Undefined user name or password				
419	Invalid username or password				
420	Expired version				

Example Request (GET)

GET URL: <u>https://mobile.cmtapi.com/v1/auth?emailAddress=test@cmtyc.com&password=abcd12345x!</u>

Successful Response (JSON)

```
HTTP Status: 200 (Success)
{
        "oauthToken":"ZTlhYzE1ZWMtZDMyNy00ZjFhLWJhNmQtMThiZmU2OGViNWJk",
        "oauthTokenSecret":"ZWU5MDcxZWUtMzgwZS00M2FiLWFkNjctMGQ2MmM5MzFlOWN1",
        "oauthExpiresInSeconds":6460
}
```

```
HTTP Status: 400
{
     "responseCode":419,
     "message":"invalid username or password"
}
```

GET /auth/phone/confirm

Second step of two-step authentication. Confirms that phone for currently-logged-in user has been confirmed through SMS validation.

Resource URL

Production: https://mobile.cmtapi.com/v1/auth/phone/confirm

Sandbox: https://mobile-sandbox.cmtapi.com/v1/auth/phone/confirm

Response Field Description

Field	DataType	Size	Required	Notes
confirmed	Boolean		Υ	Whether or not the user's phone has been
				confirmed.

Example Request (GET)

GET URL: <u>https://mobile.cmtapi.com/v1/auth/phone/confirm</u>

Successful Response (JSON)

```
HTTP Status: 200 (Success)
{
        "confirmed":true
}
```

```
HTTP Status: 400
{
     "responseCode":441,
     "message":"Account not found"
}
```

POST /auth/phone/confirm/{confirmationToken}

Validates a phone number through a confirmation token.

Resource URL

Production: https://mobile.cmtapi.com/v1/auth/phone/confirm/{confirmationToken}

Sandbox: https://mobile-sandbox.cmtapi.com/v1/auth/phone/confirm/{confirmationToken}

Request URL Field Description

Field	DataType	Size	Required	Notes
confirmationToken	String	5	Υ	The 5-digit number that was texted to the user's
				phone.

Example Request (POST)

POST URL: <u>https://mobile.cmtapi.com/v1/auth/phone/confirm</u>/12345

Successful Response (JSON)

HTTP Status: 200 (Success)

```
HTTP Status: 400
{
     "responseCode":441,
     "message":"Account not found"
}
```

POST /auth/phone/validate

Starts the phone number validation process by sending a text to the user's phone.

Resource URL

Production: https://mobile.cmtapi.com/v1/auth/phone/validate

Sandbox: https://mobile-sandbox.cmtapi.com/v1/auth/phone/validate

Request Query Field Description

Field	DataType	Size	Required	Notes
phone	String		Υ	The user's phone number, formatted to E.164
				specifications.

Error Sub-codes (HTTP 400)

Code	Description
451	Error sending SMS message
452	Phone number already bound to different RideLinQ account
453	Phone number has been banned from using RideLinQ

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/auth/phone/validate?phone=+12035551212

Successful Response (JSON)

HTTP Status: 200 (Success)

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "responseCode":441,
     "message":"Account not found"
}
```

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Account Resource

Summary

This resource provides access to updating their account data and provides functionality to list, get, add, update and delete addresses for a Mobile API user. **Please note that all account resources require a valid oauth token to be passed.**

Resource	Description
GET account/	Retrieves an Account resource for the current user.
PUT account/	Updates an Account for the current user.
GET account/addresses	Gets a list of addresses for a Mobile API User
POST account/addresses	Creates a new address for a Mobile API User
GET account/addresses/:addressId	Gets an address for a Mobile API User
PUT account/addresses/:addressId	Updates an existing address for a Mobile API User
DELETE account/addresses/:addressId	Deletes an address for a Mobile API User
POST account/password	Changes the password for a Mobile API User
POST account/password/reset	Resets the password for a Mobile API User

GET account/

Gets the account data for a Mobile API Account.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/

Response Field Description

Field	DataType	Size	Required	Notes
accountId	String	255	Υ	Account ID for customer
email	String	255	Y	Email address associated with the account (also
				the login)
firstName	String	35	Υ	First name on the account
lastName	String	35	Υ	Last name on the account
twitterId	String	255	N	Used to link to a twitter account
facebookId	String	255	N	Used to link to a facebook account
linkedInId	String	255	N	Used to link to a linkedIn account
phone	String	255	N	The phone number associated with the account
accountStatus	Integer		Υ	Status of the account – See Appendix A for status
				codes
defaultCardOnFileId	String	255	N	The default card on file to use for credit card
				transactions.
defaultTipPercentage	Integer		N	The default tip percentage (values between 0 and
				200);
defaultTipAmount	Double		N	The default tip amount to be used in the
				transaction. Please note that the above will be
				combined at authorization.
autoPay	Boolean		N	If true, trips will auto-pay by default

Error Sub-codes (HTTP 400)

Code	Description
442	Account not found

Example Request (GET)

GET URL: https://mobile.cmtapi.com/v1/account

```
HTTP Status: 200 (Success)
{
    "accountId":"78260915-c622-4edf-a2e9-c3ccd620355b",
    "email":"test@cmtnyc.com",
    "firstName":"Test",
    "lastName":"User",
    "twitterId":"TWITID",
    "accountStatus":0,
    "defaultCardOnFileId":"13487915-c923-4f5t-a2e9-c3ccd643c6732",
    "defaultTipPercentage":20,
    "defaultTipAmount":1.00
}
```

Unsuccessful Response (JSON) HTTP Status: 400

```
HTTP Status: 400
{
         "responseCode":442,
         "message":"Account not found"
}
```

PUT account/

This resource provides developers a method to update Mobile API account information.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/

Request Field Description

Field		Cina	Dearringd	Notes
Field	DataType	Size	Required	Notes
accountId	String	255	Υ	Account ID for customer
email	String	255	Υ	Email address associated with the account (also
				the login)
firstName	String	35	Υ	First name on the account
lastName	String	35	Υ	Last name on the account
twitterId	String	255	N	Used to link to a twitter account
facebookId	String	255	N	Used to link to a facebook account
phone	String	255	N	The phone number associated with the account
linkedInId	String	255	N	Used to link to a linkedIn account
accountStatus	Integer		Υ	Status of the account – See Appendix A for status
				codes
language	String	16	N	Language for the user. Defaults to "en-us"
defaultCardOnFileId	String	255	N	The default card on file to use for credit card
				transactions.
defaultTipPercentage	Integer		N	The default tip percentage (values between 0 and
				200);
defaultTipAmount	Double		N	The default tip amount to be used in the
				transaction. Please note that the above will be
				combined at authorization.
autoPay	Boolean		N	If true, trips will auto-pay by default

Response Field Description

Field	DataType	Size	Required	Notes
responseCode	Integer		Υ	See Appendix for list of sub codes
message	String	255	N	Detailed message

Error Sub-codes (HTTP 400)

Code	Description
442	Account not found

Example Request (PUT)

PUT URL: https://mobile.cmtapi.com/v1/account/

Request (JSON)

```
"accountId":"78260915-c622-4edf-a2e9-c3ccd620355b",
"email":"test@cmtnyc.com",
"firstName":"Test",
"lastName":"User",
"twitterId":"TWITID",
"accountStatus":0,
"language"="en-us",
"defaultCardOnFileId":"13487915-c923-4f5t-a2e9-c3ccd643c6732",
"defaultTipPercentage":20,
"defaultTipAmount":1.00,
```

```
"autoPay":true
}

Successful Response (JSON)
HTTP Status: 200 (Success)

Unsuccessful Response (JSON)
HTTP Status: 400
{
         "responseCode":442,
          "message":"Account not found"
}
```

GET account/addresses

Gets a list of all addresses for a user.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/addresses

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/addresses

Response Field Description

Response Field Description					
Field	DataType	Size	Required	Notes	
addressId	UUID		Υ	Unique identifier for an address	
friendlyName	String	50	Y	A friendly name for the address (used for display purposes)	
buildingName	String	20	N	Optional Name of the building the address is in	
addressType	String	20	N	Optional Address Type (Home, Work, etc)	
fullAddress	String	255	Υ	Full Address Information	
ringCode	String	255	N	Used to ring the apartment or office when driver arrives.	
latitude	Double		Υ	Latitude of the address.	
longitude	Double		Υ	Longitude of the address.	
favorite	Boolean		Y	Indicates if the address is a favorite or not. (true/false)	

Error Sub-codes (HTTP 400)

Code	Description
442	Account not found

Example Request (GET)

GET URL: https://mobile.cmtapi.com/v1/account/addresses

```
HTTP Status: 200 (Success)
[{
      "addressId": "78260915-c622-4edf-a2e9-c3ccd62035ae",
      "friendlyName": "HOME",
      "addressType": "home",
      "buildingName": "test building",
      "latitude":56.4333433,
      "longitude":-67.32323232,
      "fullAddress": "378 carrington lane, San Francisco, CA 18822",
      "ringCode":"1234",
      "favorite":true
},{
      "addressId": "3d3164b9-ed51-4b05-ad04-94f7e31c3040",
      "friendlyName": "work",
      "addressType": "work",
      "buildingName": "test work",
      "latitude":36.4333433,
      "longitude":-87.32323232,
      "fullAddress": "5803 Kennett Pike, Suite C, Wilmington DE 19807",
      "favorite":false
}]
```

Unsuccessful Response (JSON) HTTP Status: 400

```
HTTP Status: 400
{
         "responseCode":442,
         "message":"Account not found"
}
```

POST account/addresses

Creates new addresses for a user.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/addresses

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/addresses

Request Field Description

11094000 1 1014 2 00				
Field	DataType	Size	Required	Notes
friendlyName	String	50	Y	A friendly name for the address (used for display purposes)
buildingName	String	20	N	Optional Name of the building the address is in
addressType	String	20	N	Optional Address Type (Home, Work, etc)
fullAddress	String	255	Υ	Full Address Information
ringCode	String	255	N	Used to ring the apartment or office when driver
				arrives.
latitude	Double		Υ	Latitude of the address.
longitude	Double		Υ	Longitude of the address.
favorite	Boolean		Y	Indicates if the address is a favorite or not. (true/false)

Response Field Description

Field	DataType	Size	Required	Notes
addressId	String	100	Υ	Unique Address ID

Error Sub-codes (HTTP 400)

Code	Description
442	Account not found

Example Request (POST)

POST URL: <u>https://mobile.cmtapi.com/v1/account/addresses</u>

```
Request (JSON)
```

```
"friendlyName":"work",
    "addressType":"work",
    "buildingName":"test work",
    "latitude":36.4333433,
    "longitude":-87.32323232,
    "fullAddress":"5803 Kennett Pike, Suite C, Wilmington DE 19807",
    "favorite":false
}

Successful Response (JSON)
HTTP Status: 201 (Created)
{
    "addressId":"3d3164b9-ed51-4b05-ad04-94f7e31c3040"
}
```

```
HTTP Status: 400
{
     "responseCode":444,
     "message":"FriendlyName is required."
}
```

GET account/addresses/:addressId

Gets address information for a specific address

Resource URL

Production: https://mobile.cmtapi.com/v1/account/addresses/:addressId

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/addresses/:addressId

URL Parameter Description

Field	DataType	Size	Required	Notes
:addressId	String	100	Υ	Unique identifier for an address

Response Field Description

Field	DataType	Size	Required	Notes
addressId	UUID		Υ	Unique identifier for an address
friendlyName	String	50	Υ	A friendly name for the address (used for display
				purposes)
buildingName	String	20	N	Optional Name of the building the address is in
addressType	String	20	N	Optional Address Type (Home, Work, etc)
fullAddress	String	255	Υ	Full Address Information
ringCode	String	255	N	Used to ring the apartment or office when driver
				arrives.
latitude	Double		Υ	Latitude of the address.
longitude	Double		Υ	Longitude of the address.
favorite	Boolean		Υ	Indicates if the address is a favorite or not.
				(True/False)

Error Sub-codes (HTTP 400)

Code	Description
441	Address not found
442	Account not found

Example Request (GET)

POST URL: https://mobile.cmtapi.com/v1/account/addresses/3d3164b9-ed51-4b05-ad04-94f7e31c3040

```
HTTP Status: 200 (Success)
{
    "addressId":"3d3164b9-ed51-4b05-ad04-94f7e31c3040",
    "friendlyName":"work",
    "addressType":"work",
    "buildingName":"test work",
    "latitude":36.4333433,
    "longitude":-87.32323232,
    "fullAddress":"5803 Kennett Pike, Suite C, Wilmington DE 19807",
    "favorite":false
}
```

Unsuccessful Response (JSON) HTTP Status: 400

```
HTTP Status: 400
{
         "responseCode":442,
         "message":"Account not found."
}
```

PUT account/addresses/:addressId

Updates a user address.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/addresses/:addressId

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/addresses/:addressId

URL Parameter Description

Field	DataType	Size	Required	Notes
:addressId	String	100	Υ	Unique identifier for an address

Request Field Description

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Field	DataType	Size	Required	Notes
addressId	UUID		N	Unique identifier for an address
friendlyName	String	50	Y	A friendly name for the address (used for display purposes)
buildingName	String	20	N	Optional Name of the building the address is in
addressType	String	20	N	Optional Address Type (Home, Work, etc)
fullAddress	String	255	Υ	Full Address Information
ringCode	String	255	N	Used to ring the apartment or office when driver arrives.
latitude	Double		Υ	Latitude of the address.
longitude	Double		Υ	Longitude of the address.
favorite	Boolean		Y	Indicates if the address is a favorite or not. (True/False)

Response Field Description

Field	DataType	Size	Required	Notes
responseCode	Integer		Υ	See Appendix for list of sub codes
message	String	255	N	Detailed message

Error Sub-codes (HTTP 400)

Code	Description
441	Address not found
442	Account not found

Example Request (PUT)

POST URL: https://mobile.cmtapi.com/v1/account/addresses/3d3164b9-ed51-4b05-ad04-94f7e31c3040

Request (JSON)

```
{
    "addressId":"3d3164b9-ed51-4b05-ad04-94f7e31c3040",
    "friendlyName":"work",
    "addressType":"work",
    "buildingName":"test work",
    "latitude":36.4333433,
    "longitude":-87.32323232,
    "fullAddress":"5803 Kennett Pike, Suite C, Wilmington DE 19807",
    "favorite":false
}
```

Successful Response (JSON) HTTP Status: 200 (Success)

```
Unsuccessful Response (JSON)
HTTP Status: 400
{
    "responseCode":442,
    "message":"Account not found."
}
```

DELETE account/addresses/:addressId

Deletes a user address.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/addresses/:addressId

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/addresses/:addressId

URL Parameter Description

Field	DataType	Size	Required	Notes
:addressId	String	100	Υ	Unique identifier for an address

Error Sub-codes (HTTP 400)

Code	Description
441	Address not found
442	Account not found

Example Request (DELETE)

DELETE URL: https://mobile.cmtapi.com/v1/account/addresses/3d3164b9-ed51-4b05-ad04-94f7e31c3040

Successful Response (JSON)

HTTP Status: 200 (Success)

```
HTTP Status: 400
{
     "responseCode":442,
     "message":"Account not found."
}
```

POST account/password

Changes the password for a user.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/password

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/password

Request Field Description

Field	DataType	Size	Required	Notes
oldPassword	String	100	Υ	The old password for the account
newPassword	String	100	Υ	The new password for the account

Error Sub-codes (HTTP 400)

Code	Description	
442	Account not found	
419	Old password does not match password on file	

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/account/password

```
Request (JSON)
      "oldPassword": "password1",
      "newPassword": "password2"
```

Successful Response (JSON) HTTP Status: 200 (Success)

```
HTTP Status: 400
{
       "responseCode":442,
      "message": "Account not found."
```

POST account/:emailAddress/password/reset

Resets the password for a user.

Resource URL

Production: https://mobile.cmtapi.com/v1/account/:emailAddress/password/reset

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/:emailAddress/password/reset

URL Field Description

Field	DataType	Size	Required	Notes
emailAddress	String	100	Υ	The email address associated with the account

Error Sub-codes (HTTP 400)

Code	Description	
442	Account not found	

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/account/password/reset

Successful Response (JSON)

HTTP Status: 200 (Success)

```
HTTP Status: 400
{
     "responseCode":442,
     "message":"Account not found."
}
```

Pairing Initialization Resources

The Pairing Initialization Resources duplicate the functionality of the Pairing Resources, but with the additional feature of asynchronous confirmation of pairing, unpairing, and updating messages. All requests made through these resources should be considered in a pending state until a confirmation is received.

Resource	Description
POST /init/pairing	Pairs the e-hail app to a CMT vehicle.
POST /init/pairing/external/cof	Pairs the e-hail app to a CMT vehicle and passes credit card information.
DELETE /init/pairing/:pairingToken	Un-pairs the e-hail app from a CMT vehicle
PUT /init/pairing/:pairingToken	Updates current pairing data.

POST /init/pairing

Pairs an e-hail application to a vehicle for payment and trip collection and gets a pairing token (used in subsequent requests).

Resource URL

Production: https://mobile.cmtapi.com/v1/init/pairing

Sandbox: https://mobile-sandbox.cmtapi.com/v1/init/pairing

Request Field Description

Request Field Description							
Field	DataType	Size	Required	Notes			
pairingCode	String	7	Υ	Pairing code for this trip			
customerId	String	50	Υ	Unique identifier for the mobile user (customer)			
customerName	String	50	Υ	Customer name for display			
latitude	Double		Υ	Latitude of device requesting the pairing token			
longitude	Double		Y	Longitude of the device requesting the pairing token			
callbackUrl	String	500	N	url used for callback features.			
autoCompletePayment	Boolean		Y	Indicates if payment will occur automatically by the ehail provider (true) or if payment will be completed using the in-vehicle equipment (false).			
autoTipPercentage	Integer		N*	Indicates the percentage tip automatically used. Valid ranges are 0 to 200. *autoTipPercentage and/or autoTipAmount is			
				required if autoCompletePayment is enabled.			
autoTipAmount	Double		N*	Indicates the amount tip automatically be used. Valid ranges are 0 to 200.			
				*autoTipPercentage and/or autoTipAmount is required if autoCompletePayment is enabled.			
mobileType	Integer		N	The operating system code for the mobile device used to pair. [See Appendix B]			
mobilePlatformId	String		N	Built-in string representing the mobile device hardware type. Examples: "iPhone4,1" for iPhone 4S, "iPhone5,1" for iPhone 5 (GSM).			
mobileOSVersion	String		N	Version of the operating system the mobile device is running. Example: "7.0.2"			
mobileAppId	String		N	String representing the application being used to pair. Example: "Hailo", "RideLinQ"			
mobileAppVersion	String		N	String representing the application version. Example: "1.0.2"			
sessionId	String	100	N	Fraud session id (Kount)			
tripRequestNumber	String		N	The id number for the trip request (order)			

Response Field Description

Field	DataType	Size	Required	Notes
pairingToken	String	30	Υ	Unique pairing token used in all subsequent
				requests.
pairingCode	String	10	Υ	Returned pairing code.
medallion	String	20	Υ	Medallion
tripId	Integer		Υ	Trip Identifier
driverId	Integer		Υ	Driver Identifier
timeoutSeconds	Long		Υ	The time in seconds after which the request will be considered to have failed.
deviceName	String		N*	The pimId associated with the referenced device.
				* Note: This value is returned for Arro users only

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Error Sub-codes (HTTP 400)

Code	Description			
101	The pairing code is invalid			
102	Missing or invalid customer ID			
103	Pairing code already in use			
104	Invalid Customer Name			
105	Invalid Lat/Lon			
106	Invalid Callback URL			
420	Expired app version			

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/init/pairing

```
Request (JSON)
       "pairingCode":"1234567",
       "customerId": "3231432232",
       "customerName":"Test Customer",
      "latitude":78.342342,
       "longitude":-43.893454,
       "callbackUrl": "https://host.appcompany.com/faredata/",
      "autoCompletePayment":true,
      "autoTipPercentage":25,
      "autoTipAmount":0.0
}
Successful Response (JSON)
HTTP Status: 201 (Created)
       "pairingToken": "dg76Jki190hgsF3gfe67873DfgghJ",
       "pairingCode":"1234567",
       "medallion":"1N42",
      "tripId":34,
       "driverId":2342344,
       "timeoutSeconds":240
}
Unsuccessful Response (JSON)
HTTP Status: 400
{
       "code":102,
       "description": "Missing or invalid customer ID"
}
```

POST /init/pairing/external/cof

Pairs an e-hail application to a vehicle for payment and trip collection and gets a pairing token (used in subsequent requests). This method allows the ehail provider to pass a card on file token with the request which will be used for preauthorization and payment. Providers must inform the CMT development team in advance if they plan on making use of this resource.

The vehicle to be paired with may be identified in one of three ways: The vehicle's unique deviceName, the current trip's pairing code, or the vehicle's medallion, current driver id, and market. In the last pairing method, if market is left out, it will default to NYC.

Resource URL

Production: https://mobile.cmtapi.com/v1/init/pairing/external/cof

Sandbox: https://mobile-sandbox.cmtapi.com/v1/init/pairing/external/cof

Request Field Description

Field	DataType	Size	Required	Notes
medallion	String	20	N*	Unique identifier for the vehicle, within a given market
				* NOTE: Either medallion/driverId, pairingCode, or deviceName must be specified in order to pair
driverId	String	20	N*	Hack license or driver id used in the pairing
				* NOTE: Either medallion/driverId, pairingCode, or deviceName must be specified in order to pair
pairingCode	String	7	N*	Pairing code for this trip
				* NOTE: Either medallion/driverId, pairingCode, or deviceName must be specified in order to pair
deviceName	String	20	N*	Globally unique identifier for the vehicle within CMT's architecture.
				* NOTE: Either medallion/driverId, pairingCode, or deviceName must be specified in order to pair
customerId	String	50	Υ	Unique identifier for the mobile user (customer)
customerName	String	50	Y	Customer name for display
latitude	Double		Υ	Latitude of device requesting the pairing token
longitude	Double		Y	Longitude of the device requesting the pairing token
callbackUrl	String	500	N	url used for callback features.
autoCompletePayment	Boolean		Y	Indicates if payment will occur automatically by the ehail provider (true) or if payment will be completed using the in-vehicle equipment (false).
autoTipPercentage	Integer		N*	Indicates the percentage tip automatically used. Valid ranges are 0 to 200.
				*autoTipPercentage and/or autoTipAmount is required if autoCompletePayment is enabled.
autoTipAmount	Double		N*	Indicates the amount tip automatically be used. Valid ranges are 0 to 200.
				*autoTipPercentage and/or autoTipAmount is required if autoCompletePayment is enabled.
cardOnFileId	String		Y	A token, created by the tokenization resource, representing the card on file to be used for preauthorization and payment.
market	String	5	N	A three-to-five digit code indicating which CMT

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	1	1	1	1
				market the vehicle is in. Defaults to NYC. (See
				Appendix B)
lastFour	String	4	N	The last four digits of the card on file
zipCode	String	5	N	The zip code associated with the card on file
tripRequestNumber	String		N	The id number for the trip request (order)
tipIncentive	Double		N	Indicates the incentive amount to be added to the
				tip. The incentive cannot be changed by
				subsequent tip updates, and will be added to the
				values of autoTipPercentage or autoTipAmount.
sessionId	String	100	N	Fraud session id (Kount)
billingFullName	String	100	N	Full name associated with the given credit card.
				* Note : This field is only used if the first name and
				last name are not provided.
billingFirstName	String	100	N	First name associated with the given credit card
billingLastName	String	100	N	Last name associated with the given credit card
billingAddress	String	100	N	Address associated with the given credit card
billingCity	String	100	N	City associated with the given credit card
billingState	String	100	N	State associated with the given credit card
billingPhone	String	100	N	Phone number associated with the given credit
_				card
email	String	100	N	Customer's email
customerIpAddress	String	100	N	IP address of customer's client

Response Field Description

Field	DataType	Size	Required	Notes
pairingToken	String	30	Y	Unique pairing token used in all subsequent requests.
pairingCode	String	10	Υ	Returned pairing code.
medallion	String	20	Υ	Medallion
tripId	Integer		Υ	Trip Identifier
driverId	Integer		Υ	Driver Identifier
timeoutSeconds	Long		Υ	The time in seconds after which the request will be considered to have failed.
deviceName	String		N*	The pimId associated with the referenced device.
				* Note: This value is returned for Arro users only

Error Sub-codes (HTTP 400)

Elloi Sub-codes (ub-codes (HTTP 400)					
Code	Description					
101	The pairing code is invalid					
102	Missing or invalid customer ID					
103	Unable to pair with this driver/vehicle. Usually returned if the					
	vehicle is not in a trip currently					
104	Invalid Customer Name					
105	Invalid Lat/Lon					
106	Invalid Callback URL					
107	Invalid driver. Driver specified is not in given vehicle.					
108	Missing card on file id					
116	Pairing with flat fare trips is disabled					

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/init/pairing/external/cof

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```
Pairing Style 1 (Medallion/Driver) Request (JSON)
      "medallion": "EH9009",
      "driverId": "9999",
      "market": "CHI",
      "customerId": "3231432232",
      "customerName": "Test Customer",
      "latitude":78.342342,
      "longitude":-43.893454,
      "callbackUrl": "https://host.appcompany.com/faredata/",
      "autoCompletePayment":true,
      "autoTipPercentage":25,
      "autoTipAmount":0.0,
      "cardOnFileId":"57474e484f734d716c4e513172717358337a697a315076656452453d",
      "lastFour":"1111",
       "tripRequestNumber":"1111"
}
Pairing Style 2 (Pairing Code) Request (JSON)
      "pairingCode": "1234567",
      "customerId": "3231432232",
      "customerName": "Test Customer",
      "latitude":78.342342,
      "longitude": -43.893454,
      "callbackUrl": "https://host.appcompany.com/faredata/",
      "autoCompletePayment":true,
      "autoTipPercentage":25,
      "autoTipAmount":0.0,
      "cardOnFileId":"57474e484f734d716c4e513172717358337a697a315076656452453d",
      "lastFour":"1111",
      "tripRequestNumber":"1111"
}
Pairing Style 3 (DeviceName) Request (JSON)
      "deviceName": "EH9009",
      "customerId": "3231432232",
      "customerName": "Test Customer",
      "latitude":78.342342,
      "longitude":-43.893454,
      "callbackUrl": "https://host.appcompany.com/faredata/",
      "autoCompletePayment":true,
      "autoTipPercentage":25,
      "autoTipAmount":0.0,
      "cardOnFileId":"57474e484f734d716c4e513172717358337a697a315076656452453d",
      "lastFour":"1111",
      "tripRequestNumber":"1111"
}
```

Successful Response (JSON)

```
HTTP Status: 201 (Created)
{
    "pairingToken":"dg76Jkil90hgsF3gfe67873DfgghJ",
    "pairingCode":"1234567",
    "medallion":"EH9009",
    "tripId":34,
    "driverId":"9999",
    "timeoutSeconds":240
}
```

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "code":101,
     "description":"missing or invalid customer id"
}
```

DELETE /init/pairing/:pairingToken

Un-pairs an e-hail application from a CMT vehicle.

Resource URL

Production: https://mobile.cmtapi.com/v1/init/pairing/:pairingToken

Sandbox: https://mobile-sandbox.cmtapi.com/v1/init/paring/:pairingToken

URL Parameters

Field	DataType	Size	Required	Notes
:pairingToken	String	100	Υ	Pairing token received during the pairing process.

Response Field Description

Field	DataType	Size	Required	Notes
timeoutSeconds	Long		Υ	The time in seconds after which the request will be considered to have failed.

Error Sub-codes (HTTP 400)

Code	Description
101	The pairing token is invalid
102	Missing or invalid customer id

Example Request (DELETE)

DELETE URL: https://mobile.cmtapi.com/v1/init/pairing/dq76Jkil90hqsF3qfe67873DfqqhJ

Successful Response (JSON)

```
HTTP Status: 200 (Success)
{
     "timeoutSeconds":240
}
```

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "code":101,
     "description":"The pairing token is invalid"
}
```

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PUT /init/pairing/:pairingToken

Augments the current pairing with updated auto-pay fields.

Resource URL

Production: https://mobile.cmtapi.com/v1/pairing/dg76Jkil90hgsF3gfe67873DfgghJ

Sandbox: https://mobile-sandbox.cmtapi.com/v1/pairing/dg76Jkil90hgsF3gfe67873DfgghJ

Request Field Description

Request Field Description					
Field	DataType	Size	Required	Notes	
customerId	String	50	Υ	Unique identifier for the mobile user (customer)	
customerName	String	75	Υ	Customer name for display	
latitude	Double		Y	Latitude in degrees of device requesting the pairing token	
longitude	Double		Y	Longitude in degrees of the device requesting the pairing token	
callbackUrl	String	500	N	url used for callback features.	
autoCompletePayment	Boolean		Y	Indicates if payment will occur automatically by the ehail provider (true) or if payment will be completed using the in-vehicle equipment (false).	
autoTipPercentage	Integer		N*	Indicates the percentage tip automatically used. Valid ranges are 0 to 200. *autoTipPercentage and/or autoTipAmount is required if autoCompletePayment is enabled.	
autoTipAmount	Double		N*	Indicates the amount tip automatically be used. Valid ranges are 0 to 200. *autoTipPercentage and/or autoTipAmount is required if autoCompletePayment is enabled.	

Response Field Description

Field	DataType	Size	Required	Notes	
timeoutSeconds	Long		Υ	The time in seconds after which the request will be considered to have failed.	

Error Sub-codes (HTTP 400)

Code	Description
102	Missing or invalid customer ID
104	Invalid Customer Name
105	Invalid Lat/Lon
106	Invalid callback URL
103	No data found for pairing token

Example Request (POST)

PUT URL: https://mobile.cmtapi.com/v1/pairing/dg76Jkil90hgsF3gfe67873DfgghJ

```
Request (JSON) {
```

```
"customerId":"321232322",
"customerName":"Updated Customer",
"latitude":78.342342,
"longitude":-43.893454,
"callbackUrl":"https://host.appcompany.com/faredata/",
"autoCompletePayment":true,
```

```
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```

Card on File Resources

The card on file resources are used to manage the credit card tokens received from a Card on File provider.

Resource	Description
GET /cof	Gets all cards on file
POST /cof	Creates a new card on file
DELETE /cof/:cofld	Deletes a card on file

GET /cof

Retrieves all cards that are currently on file for this account.

Resource URL

Production: https://mobile.cmtapi.com/v1/cof

Sandbox: https://mobile-sandbox.cmtapi.com/v1/cof

Response Field Description

Field	DataType	Size	Required	Notes
cofId	String	50	Υ	Unique identifier of the card on file
friendlyName	String	75	Υ	Friendly Name of the card on file
token	String	60	Υ	The token used to authorize
cardType	String	10	Υ	The card type used in the transaction
lastFour	String	4	Υ	The last four digits of the card

Error Sub-codes (HTTP 400)

Code	Description
442	Account not found

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/cof

Successful Response (JSON)

```
HTTP Status: 200 (OK)
[{
       "cofId": "8d6e3087-3c62-4e12-ac23-d811f3588e77",
       "friendlyName": "Chase Card",
       "token": "3242345rfdsgt345t4rfagret43534fegetw4r52qrfsdg425",
       "cardType":"VISA",
       "lastFour":"1111"
},{
       "cofId": "b06b8072-a7db-44a3-8160-f53041f24681",
       "friendlyName": "Discover Card",
       "token": "3242345rfsgdy54tfghfjyuregetw4r52qrfsdg425",
       "cardType": "DISCOVER",
       "lastFour": "1231"
}]
Unsuccessful Response (JSON)
```

```
HTTP Status: 400
{
       "code":442,
       "description": "Account not found"
}
```

POST /cof

Creates a new card on file

Resource URL

Production: https://mobile.cmtapi.com/v1/cof

Sandbox: https://mobile-sandbox.cmtapi.com/v1/cof

Request Field Description

Request Field Description						
Field	DataType	Size	Required	Notes		
friendlyName	String	75	Υ	Friendly Name of the card on file		
token	String	60	Υ	The token used to authorize		
cardType	String	10	Υ	The card type used in the transaction		
lastFour	String	4	Υ	The last four digits of the card		
zipCode	String	5	Υ	The zip code associated with the card		
billingFirstName	String	100	N	First name associated with the given credit card		
billingLastName	String	100	N	Last name associated with the given credit card		
billingAddress	String	100	N	Address associated with the given credit card		
billingCity	String	100	N	City associated with the given credit card		
billingState	String	100	N	State associated with the given credit card		
				Phone number associated with the given credit		
billingPhone	String	100	N	card		
email	String	100	N	Customer's email		
customerIpAddress	String	100	N	IP address of customer's client		

Return Field Description

Field	DataType	Size	Required	Notes
cofId	String	50	Υ	Id of the created card on file

Error Sub-codes (HTTP 400)

Code	Description			
441	Card not found			
442	Account not found			

Example Request (POST)

POST URL: <u>https://mobile.cmtapi.com/v1/cof</u>

Request (JSON)

```
{
    "friendlyName":"Chase Card",
    "token":"3242345rfdsgt345t4rfagret43534fegetw4r52qrfsdg425",
    "cardType":"VISA",
    "lastFour":"1111"
}
```

Successful Response (JSON)

```
HTTP Status: 201 (Created)
```

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "code":442,
     "description":"Account not found"
```

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}

DELETE /cof/:cofId

Deletes card on file

Resource URL

Production: https://mobile.cmtapi.com/v1/cof/:cofld

Sandbox: https://mobile-sandbox.cmtapi.com/v1/cof/:cofld

URL Parameters

Field	DataType	Size	Required	Notes
:cofId	String	100	Υ	The id of the card on file

Error Sub-codes (HTTP 400)

Code	Description
441	Card not found
442	Account not found

Example Request (DELETE)

DELETE URL: <u>https://mobile.cmtapi.com/v1/cof/b06b072-a743-443a-3221-f54543ce451</u>

Successful Response (JSON)

HTTP Status: 200 (Success)

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "code":442,
     "description":"Account not found"
}
```

Payment Resources

The payment resources are used to re-authorize and credit completed trips.

Resource	Description
POST /payment/{pairingToken}/credit	Credit a trip
POST /payment/{pairingToken}/authorize/{cofToken}	Authorizes a trip with a new credit card token

POST /payment/{pairingToken}/credit

Credits a credit card for a trip.

Resource URL

Production: https://mobile.cmtapi.com/v1/payment/{pairingToken}/credit

Sandbox: https://mobile-sandbox.cmtapi.com/v1/payment/{pairingToken}/credit

URL Field Description

Field	DataType	Size	Required	Notes
pairingToken	String	64	Υ	Unique identifier for the trip to be credited

Request Field Description

Field	DataType	Size	Required	Notes
cofToken	String	64	Υ	Unique identifier of the card on file
lastFour	String	4	Υ	Last four digits of the credit card
authAmount	Integer		N	Total amount to be credited; If not included, total for the trip will be authorized

Error Sub-codes (HTTP 400)

Code	Description
403	Authentication error; invalid credentials to credit this trip
441	Trip data not found
607	Declined/Rejected by bank
616	May only credit against successful authorizations
617	May not credit for more than amount of trip

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/payment/NTUwMTAxZDYtMWQ2OS00YmQ0LWIwN2YtODc0YmY0N

TIIZmZi/credit

Successful Response (JSON)

HTTP Status: 200 (OK)

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "code":441,
     "description":"Trip data not found"
}
```

POST /payment/{pairingToken}/authorize/{cofToken}

Re-authorizes a trip using the provided token credit card.

Resource URL

Production: https://mobile.cmtapi.com/v1/payment/{pairingToken}/authorize/{cofToken}

Sandbox: https://mobile-sandbox.cmtapi.com/v1/payment/{pairingToken}/authorize/{cofToken}

URL Field Description

Field	DataType	Size	Required	Notes
cofToken	String	64	Υ	Unique identifier of the card on file
pairingToken	String	64	Υ	Unique identifier of the trip to be authorized

Request Field Description

	Request Fela Description					
Field	DataType	Size	Required	Notes		
lastFour	String	4	Υ	Last four c		
pairingToken	String	64	Υ	Unique identifier of the trip to be authorized		
zipCode	String	9		Either the 5 or 9 digit representation		
sessionId	String	100		Fraud session id (Kount)		
billingFirstName	String	100		First name associated with the given credit card		
billingLastName	String	100		Last name associated with the given credit card		
billingAddress	String	100		Address associated with the given credit card		
billingCity	String	100		City associated with the given credit card		
billingState	String	100		State associated with the given credit card		
billingPhone	String	100		Phone number associated with the given credit card		
email	String	100		Customer's email		
customerIpAddress	String	100		IP address of customer's client		
billingFullName	String	100		Full name associated with the given credit card. * Note: This field is only used if the first name and last name are not provided.		

Error Sub-codes (HTTP 400)

Code	Description
403	Authentication error; invalid credentials to authorize this trip
441	Trip data not found
607	Declined/Rejected by bank
616	May only credit against successful authorizations
617	May not credit for more than amount of trip

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/payment/NTUwMTAxZDYtMWQ2OS00YmQ0LWIwN2YtODc0YmY0N

TllZmZi/authorize/f0f80042-dca6-4d94-bd1c-38f948874218

Successful Response (JSON)

```
HTTP Status: 200 (OK)
```

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "code":441,
     "description":"Trip data not found"
}
```

Validate Resource

Summary

The Validate Resources provide services for validating credit card information with the bank to ensure the credit is valid and active.

Supported cards are American Express, Mastercard, Visa, Discover, Diner's Club, and JCB.

Resource	Description
POST /validate	Provides access to validate credit card data.
POST tokenize/validate	Provides access to validate tokenized credit card data.

POST /validate

This method is designed to validate credit card data with the bank. **NOTE: In the event** that the response sub-code is HTTP 400, indicating an error, then only two fields, responseCode and responseMessage, will be returned.

Validate Credit Card Resource URLs

Production: https://payment.cmtapi.com/v2/validate

Sandbox: https://payment-sandbox.cmtapi.com/v2/validate

Request Field Description

Field	DataType	Size	Required	Notes
accountNumber	String	200	Х	Card account number
expirationDate	String	4	Х	Card expiration date in YYMM format
CVV	String	8		Card verification value
zipCode	String	9		Either the 5 or 9 digit representation
sessionId	String	100		Fraud session id (Kount)
billingFirstName	String	100		First name associated with the given credit card
billingLastName	String	100		Last name associated with the given credit card
billingAddress	String	100		Address associated with the given credit card
billingCity	String	100		City associated with the given credit card
billingState	String	100		State associated with the given credit card
billingPhone	String	100		Phone number associated with the given credit card
email	String	100		Customer's email
customerIpAddress	String	100		IP address of customer's client
billingFullName	String	100		Full name associated with the given credit card. * Note: This field is only used if the first name and last name are not provided.

Response Field Description

Response Field Description						
Field	DataType	Size	Required	Notes		
responseCode	Integer		х	See response codes in next tables.		
responseMessage	String	100	х	Message description		
cardType	String	16	х	One of the following six values: AMERICAN_EXPRESS, VISA, JCB, DISCOVER, MASTERCARD, DINERS_CLUB		
lastFour	String	4	х	Last four digits of the tokenized credit card number		

Success Sub-codes (HTTP 200)

- 4		1
	Code	Description
	1	Approved

Error Sub-codes (HTTP 400)

Code	Description		
601	Invalid fields: [See message for more details]		
602	Invalid card type or card type not supported		
603	Invalid data		
604	Invalid CVV		
605	Invalid AVS		
606	Invalid CVV and AVS		
607 Declined/Rejected by bank			
608	Error processing request		

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Sample Validate Credit Card Request (POST):

POST URL: https://payment.cmtapi.com/v2/validate

Successful Response (JSON):

```
HTTP Status: 200 (OK)
```

```
{
    "responseCode":1,
    "responseMessage":"Approved",
    "cardType":"VISA",
    "lastFour":"1111"
}
```

Unsuccessful Response (JSON):

HTTP Status: 400

```
{
     "responseCode":601,
     "responseMessage":"Invalid fields: accountNumber is not valid"
}
```

B. POST /tokenize/validate

This method is designed to validate tokenized credit card data with the bank. **NOTE: In the event that the response sub-code is HTTP 400, indicating an error, then only two fields, responseCode and responseMessage, will be returned.**

Validate Token Resource URLs

Production: https://payment.cmtapi.com/v2/tokenize/validate

Sandbox: https://payment-sandbox.cmtapi.com/v2/tokenize/validate

Request Field Description

Request Field Description				
Field	DataType	Size	Required	Notes
Token	String	200	Х	Tokenize credit card value
cvv	String	8		Card verification value
zipCode	String	9		Either the 5 or 9 digit representation
sessionId	String	100		Fraud session id (Kount)
billingFirstName	String	100		First name associated with the given credit card
billingLastName	String	100		Last name associated with the given credit card
billingAddress	String	100		Address associated with the given credit card
billingCity	String	100		City associated with the given credit card
billingState	String	100		State associated with the given credit card
billingPhone	String	100		Phone number associated with the given credit card
email	String	100		Customer's email
customerIpAddress	String	100		IP address of customer's client
billingFullName	String	100	N	Full name associated with the given credit card. * Note: This field is only used if the first name and last name are not provided.

Response Field Description

Response Field Description				
Field	DataType	Size	Required	Notes
responseCode	Integer		х	See response codes in next tables.
responseMessage	String	100	х	Message description
cardType	String	16	x	One of the following six values: AMERICAN_EXPRESS, VISA, JCB, DISCOVER, MASTERCARD, DINERS_CLUB
lastFour	String	4	х	Last four digits of the tokenized credit card number

Success Sub-codes (HTTP 200)

Code	Description
1	Approved

Error Sub-codes (HTTP 400)

Code	le Description		
601	Invalid fields: [See message for more details]		
602	Invalid card type or card type not supported		
603	Invalid data		
604	Invalid CVV		
605 Invalid AVS			
606 Invalid CVV and AVS			

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607	Declined/Rejected by bank			
608	Error processing request			
609	Unable to retrieve token			

Sample Request:

POST URL: https://payment.cmtapi.com/v2/tokenize/validate

Successful Response (HTTP 200):

```
{
    "responseCode":1,
    "responseMessage":"Approved",
    "cardType":"VISA",
    "lastFour":"1111"
}
```

Unsuccessful Response (HTTP 400):

```
{
    "responseCode":601,
    "responseMessage":"Invalid fields: accountNumber is not valid"
}
```

Trip Resource

Summary

The Trip resource provides access to trip data after a trip has been completed. **Please note** that all trip resources require a valid oauth token to be passed.

Resource	Description
GET /trip/{pairingToken}	Gets the trip details associated with the provided pairing token.

GET /trip/:pairingToken

This method is designed to retrieve trip data. In the case of a pairing initialization, once the vehicle returns a pairing acknowledgement, this resource will return a 200 success with only pairing details populated. In a pairing update initialization, the resource will return a 200 success with the relevant fields updated. Once the trip has ended, the json will be populated with trip data.

Resource URL

Production: https://mobile.cmtapi.com/v1/trip/:pairingToken

Sandbox: https://mobile-sandbox.cmtapi.com/v1/trip/:pairingToken

URL Parameters

Field	DataType	Size	Required	Notes
:pairingToken	String	250	Υ	The token associated with the trip to be returned.

Response Field Description

Response i leid Des	<u>scription</u>			
Field	DataType	Size	Required	Notes
type	String	4	Υ	Set to "TRIP" for tripData callbacks.
tripId	Integer		Υ	The id of the trip.
driverId	Integer		Υ	The driver id for the trip.
pairingToken	String		Υ	The pairing token for the trip.
startTime	String		Υ	The start time of the trip, in ISO 8601 format
				(See example request below)
endTime	String		Υ	The end time of the trip, in ISO 8601 format
total	Integer		Υ	The total cost of the trip, including fare,
				fareAtAlternateRate, extra, surcharge, tax, and
				tip.
fare	Integer		Υ	The fare amount in cents at the initial rate class.
fareAtAlternateRate	Integer		Υ	The fare amount in cents after a rate change
				(generally only has a value when going from
				rate 1 to 4).
extra	Integer		Υ	Extra costs for the trip.
tip	Integer		Υ	The tip amount for the trip.
surcharge	Integer		Υ	The surcharge amount for the trip.
tax	Integer		Υ	The tax amount for the trip.
rateAtTripStart	Integer		Υ	The rate class at trip start.
rateAtTripEnd	Integer		Υ	The rate class at trip end.
rateChangeTime	String		Υ	The time, in ISO 8601 format, at which the rate
				class changed. Empty if no rate change.
distance	Double		Υ	The distance of the trip.
autoCompletePayment	Boolean		Υ	Indicates if payment will occur automatically by
				the ehail provider (true) or if payment will be
				completed using the in-vehicle equipment
				(false).
autoTipPercentage	Integer		Υ	The automatically-set percentage used to
				calculate the tip.
autoTipAmount	Integer		Υ	The automatically-set tip amount.
tollHistory	Array		Υ	An array of any tolls included in the trip. Can be
				empty.
tollName	String			The name of the toll.
tollAmount	Integer			The amount of the toll.
customerId	String		Υ	The internal id of the customer that has been
				paired with this trip
customerName	String		Υ	The name of the customer which will be
				displayed on the taxi screen
lastFour	String		Υ	The last four digits of the customer's credit
				card*

			Note: This field is only visible to Arro/TaxiHail users; when preauthorization is enabled, it will only appear after the trip has authorized.
accessFee	Integer	Y	The improvement surcharge for the trip* Note: This field is only visible to Arro/TaxiHail users
lat	Double	Y	The latitude of the vehicle* Note: This field is only visible to Arro/TaxiHail users
lon	Double	Y	The longitude of the vehicle* Note: This field is only visible to Arro/TaxiHail users

Error Sub-codes (HTTP 400)

Code	Description
441	Trip not found or has not ended yet
103	Trip was unable to pair with vehicle due to timing of pairing
	request
104	Credit card was declined on preauthorization
110	Unable to preauthorize credit card
111	Trip has been unpaired
112	Trip has ended without sending pairing information
113	Pairing initialization request timed out
114	Credit card declined at trip end
115	System error processing payment at trip end

Example Request (GET)

GET URL: http://mobile.cmtapi.com/v1/trip/MTM2NDFiYWItOGU2Yy00N2IxLTkzZDqtNzEyNGM1Y2YwMzM3

```
Successful Response (JSON) – Pairing initialization
```

"endTime": "2015-06-10T10:07:29.513-04:00",

```
HTTP Status: 200 (Success)
      "driverId":90009,
      "autoCompletePayment":true,
      "autoTipAmount":5.0,
      "autoTipPercentage":10,
      "tripId":6,
      "pairingToken": "MTM2NDFiYWItOGU2Yy00N2IxLTkzZDgtNzEyNGM1Y2YwMzM3",
      "customerId": "customer@gmail.com",
      "customerName": "Sarah Conner"
}
Successful Response (JSON) - Trip ended
HTTP Status: 200 (Success)
      "startTime": "2015-06-10T10:07:27.000-04:00",
      "driverId":90009,
      "autoTipAmount":5.0,
      "autoTipPercentage":10,
      "tripId":6,
```

```
"pairingToken": "MTM2NDFiYWItOGU2Yy00N2IxLTkzZDgtNzEyNGM1Y2YwMzM3",
      "fare":400,
      "fareAtAlternateRate":0,
      "tip":180,
      "surcharge":0,
      "tax":0,
      "accessFee":0,
      "rateChangeTime":"",
      "distance":0.0,
      "rateAtTripStart":1,
      "rateAtTripEnd":1,
      "tollHistory":[],
      "type":"TRIP",
      "lastFour":"1234",
      "extra":0
}
Unsuccessful Response (JSON)
HTTP Status: 400
      "code":441,
       "description": "Trip data not found"
}
```

Tokenize Resource

Summary

The Tokenize resource provides a programmatic interface to create a token for the credit card information given. Please note that all resources require a valid oauth key to be passed; they do not require token authentication. Additionally, the URL used is the payment host and not the mobile host (see below).

Supported cards are American Express, Mastercard, Visa, Discover, Diner's Club, and JCB.

Resource	Description		
POST /tokenize	Provides access to tokenize credit card data.		
PUT /tokenize/:cardToken	Provides access to update tokenized credit card data.		
DELETE /tokenize/:cardToken	Provides access to delete tokenized credit card data.		

POST /tokenize

This method is designed to tokenize credit card data.

Resource URL

Production: https://payment.cmtapi.com/v2/tokenize

Sandbox: https://payment-sandbox.cmtapi.com/v2/tokenize

Request Field Description

Field	DataType	Size	Required	Notes
accountNumber	String	200	Υ	Card account number
expiryDate	String	4	Υ	Card expiration date in YYMM format
validateAccountInformation	Boolean			If true, a preauthorization is sent to verify the cardholder data to protect against fraud. The default is false.
CVV	String	8		Card verification value
zipCode	String	9		Either the 5 or 9 digit representation
sessionId	String	100		Fraud session id (Kount)
customerId	String	100		Id of the customer
billingFirstName	String	100		First name associated with the given credit card
billingLastName	String	100		Last name associated with the given credit card
billingAddress	String	100		Address associated with the given credit card
billingCity	String	100		City associated with the given credit card
billingState	String	100		State associated with the given credit card
billingPhone	String	100		Phone number associated with the given credit card
email	String	100		Customer's email
customerIpAddress	String	100		IP address of customer's client
billingFullName	String	100		Full name associated with the given credit card. * Note: This field is only used if the first name and last name are not provided.

Response Field Description

Response i leid Description					
Field	DataType	Size	Required	Notes	
responseCode	Integer		Υ	See sub-codes below.	
responseMessage	String	100	Υ	Message description	
cardType	String	16	Υ	One of the following six values: AMERICAN_EXPRESS, VISA, JCB, DISCOVER, MASTERCARD, DINERS_CLUB	
lastFour	String	4	Υ	Last four digits of the tokenized credit card number	
cardOnFileToken	String	100	Y	Token to be used to call the service to use the saved card information	

Success Sub-codes (HTTP 200)

Code	Description
1	Success

Error Sub-codes (HTTP 400)

Code	Description
601	Invalid fields: [See message for more details]
602	Invalid card type or card type not supported
603	Invalid data
604	Invalid CVV2
605	Invalid AVS

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606	Invalid CVV2 and AVS
607	Declined if the validateAccountInformation flag was set to true and card was not able to
	be authorized.
608	Error processing request

Example Request (POST)

POST URL: https://payment.cmtapi.com/v2/tokenize

```
Request (JSON)
    "accountNumber": "8888888888",
    "expiryDate":"1504"
Successful Response (JSON)
HTTP Status: 200 (Success)
{
        "responseCode":1,
        "responseMessage": "Success",
        "cardType":"VISA",
        "lastFour":"1234",
        "cardOnFileToken": "abcdefghijklmnop123456"
}
Unsuccessful Response (JSON)
HTTP Status: 400
      "responseCode":601,
      "message":"Invalid card type or card type not supported"
```

DELETE /tokenize/:cardToken

This method is designed to delete tokenized credit card data.

Resource URL

Production: https://payment.cmtapi.com/v2/tokenize:/cardToken

Sandbox: https://payment-sandbox.cmtapi.com/v2/tokenize/:cardToken

Response Field Description

Field	DataType	Size	Required	Notes
responseCode	Integer		Υ	See sub-codes below
responseMessage	String	100	Υ	Message description

Success Sub-codes (HTTP 200)

Code	Description
1	Success

Error Sub-codes (HTTP 400)

Code	Description
601	Invalid fields: [See message for more details]
603	Invalid data
608	Error processing request

Example Request (DELETE)

```
PUT Data Response (JSON)
```

```
HTTP Status: 200 (Success)
{
         "responseCode":1,
         "responseMessage":"Success"
}
```

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
        "responseCode":608,
        "message":" Error processing request"
}
```

Authorization Resource

Summary

The Authorization resource provides a mechanism to authorize credit card transactions for paired transactions. Please note that all resources require a valid oauth key to be passed; they do not require token authentication. Additionally, the URL used is the payment host and not the mobile host (see below).

Resource	Description
POST /pairing/:pairingToken/authorize	Authorizes payment by the included credit card for the total amount given, checking against trip data for the given pairing token.

POST /pairing/:pairingToken/authorize

Resource URL

Production: https://payment.cmtapi.com/v2/pairing/:pairingToken/authorize

Sandbox: https://payment-sandbox.cmtapi.com/v2/pairing/:pairingToken/authorize

URL Parameters

Field	DataType	Size	Required	Notes
:pairingToken	String	100	Υ	Unique pairing token received during the pairing
				process.

Request Field Description

Request Field Descri	Puon			
Field	DataType	Size	Required	Notes
totalInCents	Integer		Υ	Total amount to be authorized. This
				amount will be paid to the
				operator/driver/fleet. Must match total
				amount reported in trip, including tip.
encryptionKeyVersion	Integer		N	Version of the key used in the encryption
encryptionToken	String	50	N	Send "CMT_PAYNET" encrypted (if
				encryption is not 0)
encryptionAlgorithm	Integer		N	0=None, 1=3DES
customerReferenceNumber	String	50	N	
ehailServiceFeeInCents	Integer		Υ	The service fee charged by the e-hail
				provider. Set to 0 if you are not providing
				it to us.
currencyCode	String	5	N	Currency code for the transaction. Options
				are USD (default), GBP, EUR, and CAD.
accountNumber	String	200	Y (if	The primary account number for
			cardOnFileToken	authorization
			is not set)	
expiryDate	String	4	Y (if	The expiry date in YYMM format
			cardOnFileToken	
			is not set)	
cvv2	String	5	N	Card verification value
zipCode	String	9	N	Either the 5 or 9 digit representation
cardOnFileToken	String		Y (if	Card on file token
			accountNumber	
			is not set)	

Response Field Description

Field	DataType	Size	Required	Notes
tripId	Integer		Υ	The trip associated with the authorization
totalInCents	Integer		Υ	Total amount of the authorization
authorizationCode	String	8	Υ	The authorization code
lastFour	String	4	Υ	The last 4 digits of the credit card
cardType	String	10	Υ	The card type used in the transaction
transactionId	Long			Unique identifier used to reference the authorization
responseCode	Integer			See sub-codes below.
message	String	100		Additional message on response

Success Sub-codes (HTTP 200)

Code	Description
1	Approved
2	Partial Approval

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Error Sub-codes (HTTP 400)

Code	Description
601	Invalid fields: [See message for more details]
602	Invalid pairing token
603	Total amount does not match recorded amount for trip
604	Invalid CVV2
605	Invalid AVS
606	Unable to decrypt data
607	Declined
608	Error processing request

Example Request (POST)

POST URL: https://payment.cmtapi.com/v2/pairinq/dg76Jkil90hqsF3gfe67873DfgqhJ/authorize

```
Request (JSON)
      "totalInCents":5382,
      "ehailServiceFeeInCents":0,
      "accountNumber":"411111111111111",
      "expiryDate":"1605",
      "cvv2":"142"
}
Successful Response (JSON)
HTTP Status: 200 (Success)
      "tripId":1223,
      "authorizationCode": "AR32564",
      "lastFour":"1111",
      "cardType":"VISA",
      "transactionId":12345678901234,
      "responseCode":0,
      "message": "Approved"
}
Unsuccessful Response (JSON)
HTTP Status: 400
      "responseCode":602,
      "message": "Invalid pairing token"
}
```

Support Resource

Summary

The Support resource allows RideLinQ users to submit feedback or support requests, which are emailed to a support contact.

Resource	Description
POST /support	Submits feedback or support to support-team@ridelinq.com.

POST /support

Resource URL

Production: https://mobile.cmtapi.com/v1/support

Sandbox: https://mobile-sandbox.cmtapi.com/v1/support

Request Field Description

Field	DataType	Size	Required	Notes
body	String	255	Υ	Body of the emailed request
subject	String	100	N	Subject of the emailedrequest. Defaults to "RideLinQ Support Request" if not specified

Error Sub-codes (HTTP 400)

Code	Description
442	Account not found
443	Unable to access account information; try again later.

Example Request (POST)

POST URL: https://mobile.cmtapi.com/v1/support

```
Request (JSON)
{
        "subject":"Help required",
        "body":"I am in need of assistance. Please send help."
}
Successful Response (JSON)
HTTP Status: 200 (Success)

Unsuccessful Response (JSON)
HTTP Status: 400
{
        "responseCode":442,
        "message":"Account not found"
}
```

Version Resource

Summary

The Version resource allows the RideLinQ app to check the currently published version of the app.

Resource	Description
GET /version	Gets the current version of the RideLinQ app for a given operating system.

GET /version

Resource URL

Production: https://mobile.cmtapi.com/v1/version

Sandbox: https://mobile-sandbox.cmtapi.com/v1/version

Parameter Field Description

Field	DataType	Size	Required	Notes
mobileOSCode	Integer		Υ	Code corresponding to the current Mobile
				Operating System. [See Appendix B]

Response Field Description

Field	DataType	Size	Required	Notes
version	String		Υ	String representing the current version.

Example Request (GET)

GET URL: https://mobile.cmtapi.com/v1/version?mobileOSCode=1

Successful Response (JSON)

```
HTTP Status: 200 (Success)
{
         "version":"1.0.0"
}
```

Unsuccessful Response (JSON)

```
HTTP Status: 400
{
     "responseCode":442,
     "message":"Account not found"
}
```

History Resource

Summary

The History resource allows the user to retrieve a list of his last 10 trips.

Resource	Description
GET /account/history	Gets the a list of the current user's last 10 trips

GET /account/history

Resource URL

Production: https://mobile.cmtapi.com/v1/account/history

Sandbox: https://mobile-sandbox.cmtapi.com/v1/account/history

Parameter Field Description

Field	DataType	Size	Required	Notes
limit	Integer		N	The number of records to retrieve. Defaults to 10. Maximum is 100.
offset	Integer		N	Number of records to offset (used for paging.) Defaults to 0.

Response Field Description

Field Field Desc	DataType	Size	Doguired	Notes	
		Size	Required		
trips	Array	4	Y	Subfields are indented	
type	String	4	Y	Set to "TRIP" for tripData callbacks.	
medallion	String			Medallion of the vehicle associated with the trip	
tripId	Integer		Y	The id of the trip.	
driverId	Integer		Y	The driver id for the trip.	
pairingToken	String		Y	The pairing token for the trip.	
startTime	String		Y	The start time of the trip, in UTC ISO 8601 format (See example request below)	
endTime	String		Y	The end time of the trip, in UTC ISO 8601 format	
total	Integer		Y	The total cost of the trip, including fare, fareAtAlternateRate, extra, surcharge, tax, and tip.	
fare	Integer		Υ	The fare amount in cents at the initial rate class.	
fareAtAlternateRate	Integer		Y	The fare amount in cents after a rate change (generally only has a value when going from rate 1 to 4).	
extra	Integer		Υ	Extra costs for the trip.	
tip	Integer		Υ	The tip amount for the trip.	
surcharge	Integer		Υ	The surcharge amount for the trip.	
tax	Integer		Υ	The tax amount for the trip.	
rateAtTripStart	Integer		Υ	The rate class at trip start.	
rateAtTripEnd	Integer		Υ	The rate class at trip end.	
rateChangeTime	String		Y	The time, in UTC ISO 8601 format, at which the rate class changed. Empty if no rate change.	
distance	Double		Υ	The distance of the trip.	
autoCompletePayment	Boolean		Y	Indicates if payment will occur automatically by the ehail provider (true) or if payment will be completed using the in-vehicle equipment (false).	
autoTipPercentage	Integer		Y	The automatically-set percentage used to calculate the tip.	
autoTipAmount	Integer		Υ	The automatically-set tip amount.	
tollHistory	Array		Y	An array of any tolls included in the trip. Can be empty. Subfields are indented.	
tollName	String			The name of the toll.	
tollAmount	Integer			The amount of the toll.	

Example Request (GET)

GET URL: <u>https://mobile.cmtapi.com/v1/account/history?limit=10&offset=0</u>

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```
Successful Response (JSON)
HTTP Status: 200 (Success)
      "trips":
             [{
                    "medallion": "EH9009",
                    "driverId":90009,
                    "autoTipAmount":105,
                    "autoTipPercentage":10,
                    "pairingToken": "YzE1NThjYjYtjE1Yi00MDA3LThiNTEtZWUzYTBiZjQxOTJj",
                    "tripId":5,
                    "fare":100,
                    "surcharge":0,
                    "tip":114,
                    "tax":0,
                    "distance":0.0,
                    "fareAtAlternateRate":0,
                    "rateAtTripStart":1,
                    "rateAtTripEnd":1,
                    "rateChangeTime":"2013-08-05T14:50:24.610Z",
                    "tollHistory":[],
                    "type": "TRIP",
                    "total":100,
                    "extra":0,
                    "startTime": "2013-08-05T14:50:24.610Z",
                    "endTime": "2013-08-05T14:51:16.876Z"
             },{
                    "medallion": "EH9009",
                    "driverId":90009,
                    "autoTipAmount":100,
                    "autoTipPercentage":20,
                    "pairingToken":"ZGZiY2E4OTgtYmYyYy00ZWRmLWIxZWIOTA1OTA10GQ1NDAw",
                    "tripId":10,
                    "fare":500,
                    "surcharge":0,
                    "tip":200,
                    "tax":0,
                    "distance":0.0,
                    "fareAtAlternateRate":0,
                    "rateAtTripStart":1,
                    "rateAtTripEnd":1,
                    "rateChangeTime":"2013-08-05T16:09:49.728Z",
                    "tollHistory":[],
                    "type": "TRIP",
                    "total":500,
                    "extra":0,
                    "startTime": "2013-08-05T16:09:49.728Z",
                    "endTime": "2013-08-26T19:51:19.200Z"
             }]
}
```

Unsuccessful Response (JSON)

HTTP Status: 400

```
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```

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```
{
    "responseCode":443,
    "message":"Persistence error"
}
```

Health Check Resource

SummaryThe health check resource allows clients to confirm that MAPI is available.

Resource	Description
GET /hc	Confirms that MAPI is available

GET /hc

This resource allows clients to confirm that MAPI is up. The resource does not require oauth credentials.

Resource URL

Production: https://mobile.cmtapi.com/v1/hc

Sandbox: https://mobile-sandbox.cmtapi.com/v1/hc

Example Request (GET)

GET URL: https://mobile.cmtapi.com/v1/hc

Successful Response (JSON)

HTTP Status: 200 (Success)

Appendix A

Tokenize Response Codes

Code Message

0	An error occurred
1	Success
2	Token not found
3	Bad merchant token
4	Unable to decrypt merchant token
5	Invalid data (Required fields missing or data is not in valid format)
6	Card information is invalid (if the preauthorization is declined from the authorizer)
7	Invalid CVV2 (If the CVV2 information given is invalid from the authorizer)
8	Invalid AVS (If the AVS information given is invalid from the authorizer)

Appendix B

Mobile Operating System Codes

Code Message

0	Unknown
1	iOS
2	Android
3	Windows