**TOLL PLUS**

**INTERFACE CONTROL DOCUMENT**

**API INTEGRATION**

**FOR**

**CORPORATE CUSTOMERS**

**Project: Centralized Electronic BackOffice Application**

**CLIENT: ICICI BANK LTD**

**VERSION1.1**

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# Introduction

API’s to be developed for checking Balance at Customer ID Level, Tag Account Level, Fetching Transaction details, Blacklisted Tag details, Recharges Information, Update Blacklist tag Information and Load Recharge.

The purpose is to make the process more easy in form of API Integrated Transaction System between Corporate Customers and ICICI Bank Ltd in the process of fetching information from ICICI System and Updating Information to ICICI System.

# Goal

To develop API’s for checking Balance at Customer ID Level, Tag Account Level, Fetching Transaction details, Blacklisted Tag details, Recharges Information, Update Blacklist tag Information and Load Recharge from Corporate Customer’s Systems to ICICI Bank System.

# Business Rules

**The Proposed Solution**: To develop API’s for checking Balance at Customer ID Level, Tag Account Level, Fetching Transaction details, Blacklisted Tag details, Recharges Information, Update Blacklist Tag Information and Load Recharge.

# Technical Specifications

The API requests to be sent from Corporate Customer Systems to Issuer System (ICICI Bank System) in the form of API Message Request in JSON format using HTTPS protocol. Accordingly, the API Response is sent from Issuer System (ICICI bank System) to Corporate Customer System.

Below is the list of APIs to be developed:

|  |
| --- |
| 1. GET Customer & Vehicle Balance Details API 2. GET Blacklist Details API 3. GET Transaction Details API 4. GET Transaction Details API 5. GET TAGAccountCreditTransactions API 6. Recharge Vehicle Balance API 7. Get Vehicles API[Customer app Specific] 8. Get OTP API[Customer app Specific] 9. Customer Recharge API[Customer app Specific] 10. Remove Blacklist 11. Create Addon Tag Account 12. Assign Tag 13. TagReplacement 14. GetVehicleStatusForAssignTag |

The Header in each of the request to the above APIs should include Customer (As APIClient\_ID) of the Corporate Customer and the assigned API Key (shared by Issuer)for the purpose of security authentication, failed which the request cannot be processed.

**One Wallet Customer: A One Wallet Customer is a customer who opted for debit of all debit transactions from a single wallet called One Wallet. All one Wallet Customers have an upper limit of 1 Lakh rupees. One Wallet Customers also have the below types of Wallets as well**

**Security Deposit Wallet:** This wallet is used to maintain the security deposits of all the vehicles of the Customer

**Cashback Wallet:** This wallet is used to maintain the Cashback amount processed of all the vehicles for the customer

**Chargeback Wallet:** This wallet is used to maintain the chargeback credit amount of all the vehicles of the customer.

# Get Customer & Vehicle Balance Details API

# API: GetCustomerAndVehicleBalanceDetails

**Description:** This API method returns the CUG Wallet Balance ,FleetSize etc when Customer ID is only provided and returns the Vehicle balance and vehicle status details for the requested Customer ID and Vehicle numbers.

**URL:** https://<host>/Customer/GetCustomerAndVehicleBalanceDetails

**Method Type:** POST

**Content Type:** application/json, utf-8 encoding

**Header:**

**APIClient\_ID**: 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00**CE**

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

API Return NoContent (Http Status code 204) with response if the API request does not have any data to return.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate Customer and is Mandatory field.  When Customer ID is only provided returns only CUG Wallet Balance ,FleetSize and TotalTagsAssigned. |
| **VehicleNumbers** | Collection of Vehicle numbers. Can be requested up to a maximum of 10.If invalid or unknown vehicle numbers are provided in the request, it will not return any response for the respective vehicle.  To get Vehicle balance details both Customer ID and Vehicle numbers are mandatory. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate customer |
| **CUGWalletBalance** | Returns the available CUG Wallet Balance.  It will be One Wallet Balance if the customer is **One Wallet**. |
| **FleetSize** | Returns Total number of vehicles of the corporate customer. |
| **TotalTagsAssigned** | Returns the total number of tags assigned for the vehicles of corporate customer. |
| **IsOneWalletCustomer** | Returns true if the customer is a One Wallet Customer |
| **VehicleDetails** | Contains Collection of Vehicle details that need to be returned for the requested vehicle numbers in the request. |
| **VehicleDetails-VehicleNumber** | Vehicle number |
| **VehicleDetails-VehicleAvailableBalance** | Returns the available toll balance of the vehicle |
| **VehicleDetails-VehicleAccountNumber** | Account number of vehicle. |
| **VehicleDetails-IsLowBalance** | Returns true if the balance of the vehicle is beyond the defined threshold balance else false. |
| **VehicleDetails-VehicleStatus** | The status of the vehicle can be any one of the following   * Suspended * Closed * Write Off * Refund Requested * Pending Closed * Inactive * Active |
|  |  |

# Request JSON

**{**

**"CustomerId":10014151,**

**"VehicleNumbers":["AP01AB1111","TS01BC1111","BD01DE1111"]**

**}**

# Response JSON

**{**

**"CustomerId": 10014151,**

**"CUGWalletBalance": 5000,**

**"FleetSize":5,**

**"TotalTagsAssigned":5,**

**"VehicleDetails": [**

**{**

**"VehicleAvailableBalance": 494.7,**

**"IsLowBalance": false,**

**"VehicleAccountNumber": 20125051,**

**"VehicleStatus": "Active",**

**"VehicleNumber": "AP01AB1111"**

**},**

**{**

**"VehicleAvailableBalance": 494.7,**

**"IsLowBalance": false,**

**"VehicleAccountNumber": 20125052,**

**"VehicleStatus": "Active",**

**"VehicleNumber": "TS01BC1111"**

**}**

**]**

**}**

# One Wallet Customer Request JSON

**{**

**"CustomerId":10014151**

**}**

# One Wallet Customer Response JSON

**{**

**"CUGWalletBalance": 95995,**

**"IsOneWallet": true,**

**"TotalTagsAssigned": 2,**

**"FleetSize": 2,**

**"CustomerId": 11150374,**

**"VehicleDetails": [],**

**"OneWalletBalances": [**

**{**

**"WalletBalance": 0,**

**"WalletType": "CASHBACK"**

**},**

**{**

**"WalletBalance": 10,**

**"WalletType": "CHARGEBACK"**

**},**

**{**

**"WalletBalance": 1400,**

**"WalletType": "MISCELLANEOUS"**

**},**

**{**

**"WalletBalance": 95995,**

**"WalletType": "ONEWALLET"**

**},**

**{**

**"WalletBalance": 400,**

**"WalletType": "SECURITYDEPOSIT"**

**}**

**]**

**}**

# Get BlackList Details API

# API: GetVehicleBlackListDetails

**Description:** This API method returns the blacklist details of the requested vehicles. Customer ID and Vehicle number are mandatory for this API to get the Blacklist details. If the Wrong or invalid Vehicle number is provided, it will not fetch any results. Multiple vehicle numbers upto 10 can be provided in the request to get the details.

**URL:** https://<host>/Customer/GetVehicleBlackListDetails

**Method Type:** POST

**Content Type:** application/json, utf-8 encoding

**Header:**

**APIClient\_ID** : 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

API Return NoContent (Http Status code 204) with response if the API request does not have any data to return.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate Customer- Mandatory field. |
| **VehicleNumbers** | Collection of Vehicle numbers- Mandatory field.  Can be requested up to a maximum of 10. If invalid or unknown vehicle numbers are provided in the request, it will not return any response for the respective vehicle.  To get Vehicle blacklist details both Customer ID and Vehicle numbers (at least one Vehicle Number) are mandatory in the request. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate customer |
| **VehicleBlacklistDetails** | Contains Collection of Vehicle blacklist details that need to be returned for the requested vehicle numbers in the request. |
| **VehicleBlacklistDetails-VehicleNumber** | Vehicle number |
| **VehicleBlacklistDetails-Reason** | Reason for the blacklist of the vehicle, Empty if the vehicle is not blacklisted |
| **VehicleBlacklistDetails-IsBlacklisted** | Returns true if the vehicle is blacklisted else false. |
| **VehicleBlacklistDetails-BlackListedDateTime** | Date and time when the vehicle is blacklisted.  Returns in !SO 8601 format |
| **VehicleBlacklistDetails-VehicleAccountNumber** | Account number of vehicle. |

# Request JSON

**{**

**"CustomerId": 10003035,**

**"VehicleNumbers": [**

**"MH06AC8236",**

**"MH06AC8237"**

**]**

**}**

# Response JSON

**{**

**"CustomerId": 10003035,**

**"VehicleBlacklistDetails": [**

**{**

**"BlackListedDateTime": "2016-09-16T14:58:33+05:30",**

**"IsBlackListed": false,**

**"VehicleAccountNumber": 20000026,**

**"Reason": "Tag added to Blacklist: Customer Balance is Negative",**

**"VehicleNumber": "MH06AC8236"**

**},**

**{**

**"BlackListedDateTime": "2016-09-16T14:58:33+05:30",**

**"IsBlackListed": true,**

**"VehicleAccountNumber": 20000025,**

**"Reason": "Tag Added To BlackList: Tag is Damaged",**

**"VehicleNumber": "MH06AC8236"**

**},**

**{**

**"BlackListedDateTime": "2016-09-16T14:58:33+05:30",**

**"IsBlackListed": true,**

**"VehicleAccountNumber": 20000023,**

**"Reason": "Tag Added to BlackList: Vehicle Deactivated",**

**"VehicleNumber": "MH06AC8236"**

**},**

**{**

**"BlackListedDateTime": "2016-09-16T14:58:33+05:30",**

**"IsBlackListed": false,**

**"VehicleAccountNumber": 20000031,**

**"Reason": "",**

**"VehicleNumber": "MH06AC8237"**

**}**

**]**

**}**

# 

# Get Transaction Details API

# API: GetTransactionDetails

**Description:**

This API method returns the transaction details of the requested vehicle number of a Customer for the given duration. This API request accepts Customer ID (mandatory) & vehicle number (optional) to return the Transaction details.

* Customer ID (mandatory) & vehicle number (optional) 🡪 if vehicle number is provided then details of that particular vehicle are provided.
* If only Customer id is provided then max 200 transactions are provided rest of the transaction are retrieved from paging (Need to pass page no to retrieve next set of transactions)
* Max duration of 7 days transactions will be available and transactions only up to T-40 days are allowed.

**URL:** https://<host>/Customer/GetTransactionDetails

**Method Type:** POST

**Content Type:** application/json, utf-8 encoding

**Header:**

**APIClient\_ID** : 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00**CE**

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

API Return No Content (Http Status code 204) with response if the API request does not have any data to return.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the Corporate Customer - Mandatory field. |
| **VehicleNumber** | Specifies Vehicle number - Optional field |
| **StartTransactionDate** | Start date of the duration for requesting the transactions dated number - Mandatory and should be send in ISO8601 format.  Transaction details can be retrieved for a maximum of past 40 days. Start Transaction Date should be less than or equal to that of today’s date.  Max duration of 7 days transactions only can be requested in case Vehicle Number is not specified. |
| **EndTransactionDate** | End date of the duration for requesting the transaction dated to, Date should be send in ISO8601format.  End date should not be future date. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate customer |
| **TransactionDetails** | Contains collection of Transaction details that needs to be returned for the requested Customer ID / vehicle number and duration in the request. |
| **TransactionDetails-TransactionId** | Transaction ID of the transaction. |
| **TransactionDetails-PlazaName** | Plaza name of the transaction. |
| **TransactionDetails-TransactionAmount** | Transaction Amount. |
| **TransactionDetails-TransactionDateTime** | Date time of transaction. Returns in ISO 8601 date format |
| **TransactionDetails-ProcessingDateTime** | Processed date time of the transaction. Returns in ISO 8601 date format |
| **TransactionDetails-TransactionReference**  **Number** | Reference number of the transaction. |
| **TransactionDetails-TransactionStatus** | Status of the Transaction. |
| **TransactionDetails-PlazaCode** | Exit Plaza Code of the transaction. |
| **TransactionDetails-LaneCode** | Exit Lane Code of the transaction. |

# Request & response JSON

Request 1: Without VehicleNumber Number

Request 2: With VehicleNumber

Request 3: With PageNo

|  |  |
| --- | --- |
| Request | response |
| {  "CustomerId":10015732,  "StartTransactionDate":"2018-02-01T01:02:03",  "EndTransactionDate":"2018-02-27T01:02:02"  } | {      "CustomerId": 10015732,      "TransactionDetails": [          {              "ProcessingDateTime": "2018-02-26T15:22:03.480+05:30",              "TransactionDateTime": "2018-02-27T00:57:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5469201,              "VehicleNumber": "3FFFDFRR7",              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000291169",              "PlazaName": "LTVBT"          },          {              "ProcessingDateTime": "2018-02-26T15:22:09.333+05:30",              "TransactionDateTime": "2018-02-27T00:51:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5469243,              "VehicleNumber": "3FFFDFRR7",              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000291163",              "PlazaName": "LTVBT"          },          {              "ProcessingDateTime": "2018-02-26T15:22:03.230+05:30",              "TransactionDateTime": "2018-02-27T00:47:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5469199,              "VehicleNumber": "3FFFDFRR7",              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000291159",              "PlazaName": "LTVBT"          }      ],      "TotalPages": 3,      "CurrentPageNumber": 1,      "NoofTxnsForEachPage": 3,      "TotalTransactions": 9,      "VehicleNumber": null  } |
| {  "CustomerId":10015732,  "VehicleNumber":'3FFFDFRR7',  "StartTransactionDate":"2018-02-01T01:02:03",  "EndTransactionDate":"2018-02-27T01:02:02"  } | {      "CustomerId": 10015732,      "TransactionDetails": [          {              "ProcessingDateTime": "2018-02-26T15:22:03.480+05:30",              "TransactionDateTime": "2018-02-27T00:57:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5469201,              "VehicleNumber": null,              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000291169",              "PlazaName": "LTVBT"          },          {              "ProcessingDateTime": "2018-02-26T15:22:09.333+05:30",              "TransactionDateTime": "2018-02-27T00:51:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5469243,              "VehicleNumber": null,              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000291163",              "PlazaName": "LTVBT"          }      ],      "TotalPages": null,      "CurrentPageNumber": null,      "NoofTxnsForEachPage": null,      "TotalTransactions": null,      "VehicleNumber": "3FFFDFRR7"  } |
| {  "CustomerId":10015732,  "StartTransactionDate":"2018-02-01T01:02:03",  "EndTransactionDate":"2018-02-27T01:02:02",  "PageNo":2  } | {      "CustomerId": 10015732,      "TransactionDetails": [          {              "ProcessingDateTime": "2018-02-26T15:21:34.583+05:30",              "TransactionDateTime": "2018-02-26T21:03:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5468969,              "VehicleNumber": "3FFFDFRR7",              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000290935",              "PlazaName": "LTVBT"          },          {              "ProcessingDateTime": "2018-02-26T15:21:34.313+05:30",              "TransactionDateTime": "2018-02-26T21:02:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5468967,              "VehicleNumber": "3FFFDFRR7",              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000290934",              "PlazaName": "LTVBT"          },          {              "ProcessingDateTime": "2018-02-26T15:21:34.127+05:30",              "TransactionDateTime": "2018-02-26T21:00:00+05:30",              "TransactionAmount": 20,              "TransactionId": 5468964,              "VehicleNumber": "3FFFDFRR7",              "LaneCode": "00013",              "PlazaCode": "001002",              "TransactionStatus": "POSTED",              "TransactionReferenceNumber": "810000000290932",              "PlazaName": "LTVBT"          }      ],      "TotalPages": 3,      "CurrentPageNumber": 2,      "NoofTxnsForEachPage": 3,      "TotalTransactions": 9,      "VehicleNumber": null  } |

# Black List Vehicle

# API: Add Blacklist Vehicles

**Description:**

This API can be used if the Customer wants to include the Vehicles in Blacklist. Customer ID is mandatory and one of (Sub Group Name OR Vehicle Number) is mandatory.

Multiple Vehicle numbers up to a maximum of 10 can be provided in the request for Blacklist.

The Blacklist process is similar to the existing Blacklist functionality at Internal Web Portal (Customer calls CSR to add the vehicle to Blacklist status).

If the Vehicle is already in the Blacklist, it cannot be added to the Blacklist again.

**URL:** https://<host>/Customer/BlacklistVehicles

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

***Note:In case if SubgroupId is provided along with CustomerId, then API Response may take time depending on the number of Vehicles belong to that sub group.***

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the Corporate Customer - Mandatory field. |
| **VehicleNumbers** | Collection of Vehicle numbers. Can be requested up to a maximum of 10. If invalid or unknown vehicle numbers are provided in the request, it will not return any response for the respective vehicle.  For Blacklisting a vehicle, Customer ID is mandatory and one of (Sub Group Name or Vehicle numbers) is also mandatory. |
| **SubGroupName** | Name of the Sub group ,in case to Blacklist all vehicles based on SubGroup Name.Only one subgroup name is allowed. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate customer |
| **BlackListDetails** | Contains Collection of Vehicle details that needs to be returned for the requested vehicle numbers in the request. |
| **BlackListDetails-VehicleNumber** | Vehicle number of the requested vehicle for Blacklist. |
| **BlackListDetails-SubGroupName** | If subgroup name is passed in the request, all the tags under that group will be Added to Blacklist. |
| **BlackListDetails-Message** | Returns “Vehicle Blacklisted Successfully” if the vehicle is blacklisted.  If the request is already Blacklisted, then returns  “Vehicle already Blacklisted with Reason code-xxxxx”. |
| **BlackListDetails-IsTagBlacklisted** | Returns true if the vehicle is Blacklisted with the current request is successful else false(if already Blacklisted or any other reason). |

# Request & Response JSON

|  |  |
| --- | --- |
| **Request** | **Response** |
| {  "CustomerId":10003793,  "VehicleNumbers":["MH14EC8243","MH14EF5679","MH14DM5679","MH14CU5679"]  } | {                "CustomerId": 10003793,                 "IsSuccess": true,                "BlackListDetails": [                             {                                           "IsTagBlackListed": true,                                           "Message": "Tag already Blacklisted",                                            "TagAccountId": 20001567,                                           "VehicleNumber": "MH14EC8243"                             },                             {                                                                                  "IsTagBlackListed": true,                                           "Message": "Tag Blacklisted Successfully",                                                                                  "TagAccountId": 20001568,                                           "VehicleNumber": "MH14EF5679"                             },                             {                                           "IsTagBlackListed": false,                                          "Message": "Tag already Blacklisted",                                                                                  "TagAccountId": 20001569,                                           "VehicleNumber": "MH14DM5679"                             },                             {                                           "IsTagBlackListed": true,                                           "Message": "Tag Blacklisted Successfully",                                           "TagAccountId": 20001570,                                           "VehicleNumber": "MH14CU5679"                             }                ]  } |
| {  "CustomerId":10003793,  "SubGroupName":"SubGroup1"  } | HTTPStatus:0K (202) |
| {  "CustomerId":10003793,  "SubGroupName":"SubGroup1"  } | HTTPStatus: BadRequest (400)  {  "Invalid SubGroup Name"  } |
| {  "CustomerId":10003793,  "SubGroupName":"SubGroup1"  } | HTTPStatus: BadRequest (400)  {  "No Vehicles found for the given SubGroup"  } |

# Black List Vehicle

**Description:**

This API can be used if the Customer wants to remove the Vehicles from Blacklist.

* Customer ID is mandatory and one of (Sub Group Name OR Vehicle Number) is mandatory
* Multiple Vehicle numbers up to a maximum of 10 can be provided in the request for Blacklist.
* Only the tags blacklisted through “ADD BLACKLISTVEHICLES” can be removed with this API
* Customer id used to add vehicles to blacklist can only remove blacklist for those tags and not any other tags.
* Customer Tags Added to blacklist by the BOS Internal user cannot be removed from blacklist by the Customer.

**URL:** https://<host>/Customer/BlacklistVehicles

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

***Note:In case if SubgroupId is provided along with CustomerId, then API Response may take time depending on the number of Vehicles belong to that sub group.***

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the Corporate Customer - Mandatory field. |
| **VehicleNumbers** | Collection of Vehicle numbers. Can be requested up to a maximum of 10. If invalid or unknown vehicle numbers are provided in the request, it will not return any response for the respective vehicle.  For removing Blacklist on a vehicle, Customer ID is mandatory and one of (Sub Group Name or Vehicle numbers) is also mandatory. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate customer |
| **BlackListDetails** | Contains Collection of Vehicle details that needs to be returned for the requested vehicle numbers in the request. |
| **BlackListDetails-VehicleNumber** | Vehicle number of the requested vehicle for removing Blacklist. |
| **BlackListDetails-Subgroup name** | If subgroup name is passed in the request, all the tags under that group will be removed from Blacklist. |
| **BlackListDetails-Message** | Returns “Vehicle Blacklist removed Successfully” if the vehicle is removed from blacklist.  If the request is already removed from Blacklist, then returns  “Vehicle already removed from Blacklist”. |
| **BlackListDetails-IsTagBlacklisted** | Returns true if the vehicle is not Blacklisted with the current request is successful else false (if already not Blacklisted or any other reason). |

# Request & Response JSON

|  |  |
| --- | --- |
| **Request** | **Response** |
| {  "CustomerId":10003794,  "VehicleNumbers":["MH15EC8243","MH16EF5679","MH17DM5679","MH18CU5679"]  } | {                "CustomerId": 10003794,                "IsSuccess": true,                "BlackListDetails": [                             {                                           "IsTagBlackListed": false,                                                                                  "TagAccountId": 20001547,                                           "Message": "Tag already Blacklisted",                                           "VehicleNumber": "MH15EC8243"                             },                             {                                                                                  "IsTagBlackListed": false,                                                                                    "TagAccountId": 20001548,                                           "Message": "Tag Removed From Blacklisted Successfully",                                           "VehicleNumber": "MH16EF5679"                             },                             {                                           "IsTagBlackListed": true,                                                                                  "TagAccountId": 20001549,                                          "Message": "Failed to reomve Tag from BlackList",                                           "VehicleNumber": "MH17DM5679"                             },                             {                                           "IsTagBlackListed": true,                                           "Message": "Tag cannot be removed from blacklist as it is added from different user",                                           "TagAccountId": 20001550,                                           "VehicleNumber": "MH18CU5679"                             }                ]  } |
| {  "CustomerId":10003793,  "SubGroupName":"SubGroup2"  } | HTTPStatus:0K(202) |
| {  "CustomerId":10003793,  "SubGroupName":"UnknownSubgroup"  } | HTTPStatus: BadRequest (400)  {  "Invalid SubGroup Name"  } |
| {  "CustomerId":10003793,  "SubGroupName":"SubGroupWithOutHavingTags"  } | HTTPStatus: BadRequest (400)  {  "No Vehicles found for the given SubGroup"  } |

# GETTAGAccountCreditTransactions

# API: TAGAccountCreditTransactions

**Description:** This API method returns the Credit transactions\Recharge details for the requested Customer ID and Vehicle number in a given duration.

The details can be requested only for a single vehicle number.

**URL:** https://<host>/Customer/TAGAccountCreditTransactions

**For One Wallet Customer There is another API ,Please refer OneWalletCreditTransactions**

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

API Return NoContent (Http Status code 204) with response if the API request does not have any data to return.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate customer - Mandatory field. |
| **VehicleNumber** | Vehicle number. If invalid or unknown vehicle number is provided in the request, it will not return any response.  To get recharge balance details both Customer ID and Vehicle number are mandatory. |
| **FromDate** | Starting date of the duration to get the recharge orcedit transaction details-Credit transaction start date.  Date format should be in ISO8601 format.  Transaction details can be retrieved for a maximum of past 40 days. Date should be less than or equal to that of today’s date. |
| **ToDate** | End date of the duration to get the recharge details-transaction date.  Date format should be in ISO8601 format.  Should not be greater than today’s date. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID |
| **CreditTransactionDetails** | Contains Collection of credit transaction details that need to be returned for the requested vehicle numbers in the request. |
| **CreditTransactionDetails-VehicleNumber** | Vehicle number |
| **CreditTransactionDetails-Amount** | Credit transaction amount |
| **CreditTransactionDetails-DateOfTransaction** | Date of credit transaction.  Returns in ISO 8601 date format |
| **CreditTransactionDetails-TypeOfTransaction** | Type of credit transaction for Eg Adjustment,UPIPayment,RIBPayments,CIBPayments etc.. |
|  |  |

# Request JSON

**{**

**"CustomerId": 10039454,**

**"VehicleNumber":"TYYTYT767656",**

**"FromDate":"2018-01-25T00:42:18.097+05:30",**

**"ToDate":"2018-01-25T15:42:18.097+05:30"**

**}**

# Response JSON

**{**

**"CustomerId": 10005413,**

**"CreditTransactionDetails": [**

**{**

**"DateOfTransaction": "2017-08-03T15:42:18.097+05:30",**

**"Amount": 50000,**

**"TypeOfTransaction": "ADJUSTMENTS",**

**"VehicleNumber": "TN37CF2388"**

**},**

**{**

**"DateOfTransaction": "2017-08-01T12:43:08.647+05:30",**

**"Amount": 55,**

**"TypeOfTransaction": "UPIPAYMENTS",**

**"VehicleNumber": "TN37CF2388"**

**},**

**{**

**"DateOfTransaction": "2017-08-03T15:46:21.197+05:30",**

**"Amount": 20,**

**"TypeOfTransaction": "RIBPAYMENTS",**

**"VehicleNumber": "TN37CF2388"**

**},**

**{**

**"DateOfTransaction": "2017-08-03T15:39:10.933+05:30",**

**"Amount": 500,**

**"TypeOfTransaction": "CIBPAYMENTS",**

**"VehicleNumber": "TN37CF2388"**

**},**

**{**

**"DateOfTransaction": "2017-08-01T17:49:50.227+05:30",**

**"Amount": 1000,**

**"TypeOfTransaction": "CIBPAYMENTS",**

**"VehicleNumber": "TN37CF2388"**

**},**

**{**

**"DateOfTransaction": "2017-08-03T15:25:19.970+05:30",**

**"Amount": 500,**

**"TypeOfTransaction": "EPayments",**

**"VehicleNumber": "TN37CF2388"**

**}**

**]**

**}**

# Recharge Vehicle Balance

# API: RechargeVehicleBalance

**Description:** This API method can be used to recharge the vehicle(s) by Customer using the CUG Wallet Balance.

If Customer requested Recharge for one or more vehicle, Recharge will be initiated if the Total Recharge amount of all the requested vehicles is less than or equal to the available CUG Wallet

Balance amount of the Customer, then the recharge request of each vehicle will be sent to processing queue for CUG Wallet Balance transfer.

if the Total Recharge amount is greater than the available CUG Wallet balance amount, the recharge request is completely rejected. Customer has to send new requested with modified recharge limit.

**URL:** https://<host>/Customer/RechargeVehicleBalance

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

**API\_KEY:** C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the corporate Customer - Mandatory field. |
| **RechargeDetails** | Collection of Vehicle numbers Can be requested up to a maximum of 10.If invalid or unknown vehicle numbers are provided in the request, it will not recharge for the entire request.  For Recharge Customer ID, Vehicle number(s), Amount(s) are mandatory. |
| **RechargeDetails-VehicleNumber** | Vehicle number for the recharge to be initiated |
| **RechargeDetails-RechargeAmount** | Amount to be recharged for the vehicle. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of corporate customer |
| **VehicleRechargeDetails** | Contains Collection of Vehicle Recharge details that need to be returned for the requested recharges. |
| **VehicleRechargeDetails-Reason** | Reason in case if the recharge request is rejected.Empty if request is successfully accepted for processing. |
| **VehicleRechargeDetails-RechargeStatus** | Returns Recharge status message. |
|  |  |

# Request JSON

**{**

**"CustomerId": 10014151,**

**"RechargeDetails": [**

**{**

**"RechargeAmount": 1000,**

**"VehicleNumber": "AP31AD1119"**

**},**

**{**

**"RechargeAmount": 1000,**

**"VehicleNumber": "TS07UAD1119"**

**}**

**]**

**}**

# Response JSON

# When Recharge Requested is Accepted

**{**

**"CustomerId": 10014151,**

**"Reason":"",**

**"Status": "ACCEPTED"**

**}**

# When Recharge Requested is Rejected, because of in sufficient funds

**{**

**"CustomerId": 10014151,**

**"Reason": "INSUFFICIENTFUNDS",**

**"Status": "REJECTED"**

**}**

# Get Vehicles List

# API: GetVehicles

**Description:** This API method is specific to Customer appand is used to get the list of Vehicles of the requested customer. If Customer has more than 50 vehicles, the response will be paginated into multiple pages with each page consisting of 50 vehicles.

**URL:** https://<host>/Customer/GetVehicles

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the Customer - Mandatory field. |
| **PageNumber** | Mandatory field.  By default it should be set to 1 for the initial request.  if customer has more than 50 vehicles. Should be requested again by setting the page number to get the records of the specified page number. |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | CustomerId of customer |
| **CurrentPageNumber** | Current Page number for the result set. |
| **NumberOfVehiclesInCurrentPage** | Returns number of vehicles in current page  If Customer has 990 vehicles and 20th page is requested then  NumberOfVehicleInCurrentPage is 40. |
| **TotalPages** | Total number pages available for the vehicles.  For Eg :if Customer has 1000 vehicles, TotalPages is 20. |
| **TotalNumberOfVehicles** | Returns the total number of vehicles for the customer.  For Eg :if Customer has 1000 vehicles, Total Number of Vehicles is 1000. |
| **Vehicles** | Contains list of Vehicles of the current page(Up to 50 vehicles) |
| **Vehicles-VehicleNumber** | Vehicle number |
| **Vehicles-TollBalance** | Available Toll balance of the vehicle. |
|  |  |

# Request JSON

**{**

**"CustomerId":10004116,**

**"PageNo":1**

**}**

# Response JSON

**{**

**"CurrentPageNumber": 1,**

**"TotalPages": 1,**

**" NumberOfVehiclesInCurrentPage": 3,**

**"TotalNumberOfVehicles": 3,**

**"CustomerId": 10004116,**

**"Vehicles": [**

**{**

**"TollBalance": 1000,**

**"VehicleNumber": "MAHAG1100"**

**},**

**{**

**"TollBalance": 1000,**

**"VehicleNumber": "MAHAG1099"**

**},**

**{**

**"TollBalance": 1000,**

**"VehicleNumber": "MAHAG1098"**

**},**

**]**

**}**

# Get OTP

# API: GetOTP

**Description:** This API Returns 6 digit OTP if Customer ID and Mobile number in the request are matched with that of system.

**URL:** https://<host>/Customer/GetOTP

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the customer (Mandatory) |
| **MobileNumber** | MobileNumber of the Customer |

**Response Attributes**

|  |  |
| --- | --- |
| **CustomerId** | Customer ID |
| **OTP** | 6 digit One Time Password |
| **MobileNumber** | Mobile Number of the Customer |

# Request JSON

**{**

**"CustomerId":10014844,**

**"MobileNumber":"23423423425"**

**}**

# Response JSON

**{  
"CustomerId": 10014844,  
"OTP": "634861",  
"MobileNumber": "23423423423"  
}**

# Customer Recharge

# API: CustomerRecharge

**Description: This API method used to recharge at customer end for Tag Account of a vehicle or CUG Wallet.For One Wallet Customers it recharges the One Wallet.**

**URL:** https://<host>/Customer/CustomerRecharge

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request(Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK(Http Status code 200) with response if the API request is successfully processed.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerID** | Customer ID of the customer (Mandatory).  If only CustomerID is specified and Vehicle number not specified, then it recharges the CUG Wallet. |
| **PaymentMode** | An optional field, Mode of payment can be either of the following  RIB,  CIB,  BillDesk |
| **VehicleNumber** | Optional field, Vehicle Number of the Customer. It will be empty for CUG Wallet Recharge.  If specified, it will recharge vehicle tag account. |
| **Amount** | Transaction Amount for recharge(Mandatory) |
| **TransactionReferenceNumber** | Unique reference number for the payment made at Third party the system(Mandatory) |

# Response Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID |
| **Amount** | Transaction Amount |
| **VehicleNumber** | Vehicle Number of the Customer. It will be empty for CUG Wallet Recharge. |
| **TransactionReferenceNumber** | Unique transaction reference number for the payment made at Third party system. |
| **ICICITransactionReferenceNumber** | Unique reference number generated at ICICI CCH system. |
| **TransactionStatus** | Success/Failure (Status of the transaction). |
| **PostBal** | Revised Balance of CUG Wallet/Tag Account. |

# Request JSON For Tag Account Recharge

**{**

**"CustomerID":10014844,**

**"Amount":100,**

**"VehicleNumber": "AS053456",**

**"PaymentMode":"CIB",**

**"TransactionReferenceNumber":"NUMD000123345"**

**}**

# Response JSON For Tag Account Recharge

**{  
"CustomerId": 10014844,**

**"VehicleNumber":"AS053456",**

**"Amount":100,  
"TransactionReferenceNumber":"asdf1234445",**

**“ICICITransactionReferenceNumber": "V00000012345",  
"TransactionStatus": "Success",**

**"PostBal":120  
}**

# Request JSON For CugWallet Recharge

**{**

**"CustomerID":10014844,**

**"Amount":100,**

**" VehicleNumber":"",**

**"TransactionReferenceNumber ":"HS0190289484"**

**}**

# Response JSON For Cug Wallet Recharge

**{  
"CustomerId": 10014844,  
"TransactionReferenceNumber ":"asdf1234445",**

**"Amount":100,**

**"ICICITransactionReferenceNumber":"V00000012345",  
"TransactionStatus": "Success",**

**"VehicleNumber":""**

**"PostBal":120  
}**

# Send OTP

# API: sendOTP

**Description:** This API generates 6 digits OTP and dispatches the OTP to customer mobile and returns the same OTP in the API response, if Customer ID\VehicleNumber and Mobile number in the request are matched with that of CCH system.

**URL:** https://<host>/Customer/SendOTP

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

# Request Attributes

|  |  |
| --- | --- |
| **CustomerId** | Customer ID of the customer,  Mandatory if VehicleNumber is not provided in the request |
| **VehicleNumber** | Vehicle number of the customer.  Either CustomerId or Vehicle number is mandatory.  If both CustomerId and VehicleNumber are provided in the request, System considers only CustomerId and validates only CustomerId. |
| **MobileNumber** | MobileNumber of the Customer added at Customer Account level (Not the mobile number at Vehicle level). |

**Response Attributes**

|  |  |
| --- | --- |
| **CustomerId** | Customer ID if specified in the request else empty |
| **VehicleNumber** | Vehicle Number specified in the request. |
| **OTP** | 6 digits One Time Password |
| **MobileNumber** | Mobile Number of the Customer |

# Request JSON-WithCustomerId and EmptyVehicleNumber

**{**

**"CustomerId":10012699,**

**"MobileNumber":"8700090988",**

**"VehicleNumber":""**

**}**

# Response JSON

**{**

**"IsSuccess": true,**

**"CustomerId": 10012699,**

**"Messages": ["OTP Generated Successfully"],**

**"OTPExpiryDateTime": "2018-05-03T11:18:48.2046902Z",**

**"VehicleNumber":"" ,**

**"OTP": "532527",**

**"MobileNumber": "8700090988"**

**}**

# Request JSON-With VehicleNumber and Empty CustomerId

**{**

**"CustomerId":0,**

**"MobileNumber":"8700090988",**

**"VehicleNumber":"KA51B2214"**

**}**

# Response JSON for VehicleNumber and EmptyCustomerId

**{**

**"IsSuccess": true,  
   "CustomerId": 0,  
   "Messages": ["OTP Generated successfully"],  
   "OTPExpiryDateTime": "2018-05-03T11:18:48.2046902Z",**

**"VehicleNumber": "KA51B2214",  
   "OTP": "631411",  
   "MobileNumber": "8700090988"**

**}**

# RETAILER-Createaddonaccount

# API: createaddonaccount

**Description:** This API can be used by Regular Sub Agents (or Corporate Customers with RetailerId) to add tag account(s) to an existing customer account. The required amount for the creation of Tag Account will be deducted from MPOS Sub agent wallet. Account creation will not be completed if the sub agent does not have sufficient balance available in his/her wallet. All the business and validation rules are same to that of Add on Account creation in POS Portal.API Allows up to 10 Add on tag accounts in a single request.API accepts the request for processing after validating all the Business and validation rules and returns the response. Tag accounts creation will be done in the back ground and the status of Tag Account creation can be known by calling another API ***GetVehicleStatusForAssignTag***

**URL:** https://<host>/Retailer/CreateAddonAccount

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is accepted for Tag Account(s) creation.

Request Attributes

|  |  |
| --- | --- |
| **AccountNo** | Customer ID of the customer, Account number of the customer to add new tag accounts.  Mandatory field.  Eg: 10011241 |
| **RetailerId** | Valid Regular Sub Agent Id belongs to a Regular MPOS. Addition of Tag accounts will be carried by API on behalf of this regular sub agent and the amount will be deducted from the wallet of this sub agent. |
| **VehicleDetails** | List of vehicle details for the creation of Add on Tag account. Each Vehicle will have the following attributes |
| **VehicleDetails- VehicleNumber** | License Plate or Vehicle Registration Number of the Vehicle. |
| **VehicleDetails-VehicleClass** | Vehicle class of the requested add on Vehicle.  Refer Master Data Sheet for the valid values Pass Code  Eg: |
| **VehicleDetails- VehicleMake** | Manufacturer of the Vehicle |
| **VehicleDetails- VehicleModel** | Model of the Vehicle |
| **VehicleDetails- VehicleColor** | Vehicle color |
| **VehicleDetails- VehicleYear** | Vehicle Registered year – 4 digits. |
| **VehicleDetails- VehicleState** | Vehicle Registered state |
| **VehicleDetails- EmailAddress** | Email address |
| **VehicleDetails- MobileNumber** | Mobile number |
| **VehicleDetails- VehicleType** | Type of Vehicle  Eg:Car\Jeep\Van  Refer attached Master Data Sheet |
| **VehicleDetails- FirstName** | First name of the customer |
| **VehicleDetails- MiddleName** | Middle Name of the Customer |
| **VehicleDetails- LastName** | Last Name of the Customer |
| **VehicleDetails-Gender** | Gender of the Customer  Refer attached Master Data Sheet |
| **VehicleDetails- DateOfBirth** | Date of Birth of the Customer  Should be in ISO8601 format. |
| **VehicleDetails- AddressLine1** | Address 1 of the customer |
| **VehicleDetails- AddressLine2** | Address 2 of the customer |
| **VehicleDetails- AddressLine3** | Address 3 of the customer |
| **VehicleDetails- City** | City |
| **VehicleDetails-State** | State  Refer attached Master Data Sheet |
| **VehicleDetails-Pincode** | Pincode of the specified Address. |
| **VehicleDetails-OwnerEmailAddress** |  |
| **VehicleDetails-OwnerMobileNO** |  |
| **VehicleDetails-IDProofType** | Identity Proof  Refer attached Master Data Sheet |
| **VehicleDetails-IDProofNo** | Identification number of the specified Identity Proof |
| **VehicleDetails-AddressProofType** |  |
| **VehicleDetails-VehicleFundedBySelf** | Either true or false |
| **VehicleDetails-FundedBy** | If **VehicleFundedBySelf** is false , then specify this |

**Response Attributes**

|  |  |
| --- | --- |
| **AccountNo** | Customer ID of the Customer. |
| **Messages** | List of messages in a comma separated string with details of failure message of a vehicle. |
| **IsSuccess** | True , if the request is valid and processed successfully,  False in case the request is not valid. |

# Request JSON-Add on Tag Account Creation

**{  
    "AccountNo": 10003307,  
    "RetailerId": 10013077,  
    "VehicleDetails": [  
        {  
            "VehicleNumber": "TS09TS1118",  
            "VehicleClass": "Car/Jeep/Van",  
            "VehicleMake": "Acura",  
            "VehicleModel": "SEDAN",  
            "VehicleColor": "Red",  
            "VehicleYear": "2017",  
            "VehicleState": "Andhra Pradesh",  
            "EmailAddress": ["abc@gmail.com"](mailto:abc@gmail.com),  
            "MobileNumber": "9848778899",  
            "VehicleType": "OWNED",  
            "FirstName": null,  
            "MiddleName": null,  
            "LastName": null,  
            "Gender": "",  
            "DateOfBirth": null,  
            "AddressLine1": null,  
            "AddressLine2": null,  
            "AddressLine3": null,  
            "City": null,  
            "State": null,  
            "PinCode": null,  
            "OwnerEmailAddress": null,  
            "OwnerMobileNO": null,  
            "IDProofType": "Aadhaar Card",  
            "IDProofNo": "123456",  
            "AddressProofType": "Driving Licence",  
            "VehicleFundedBySelf": true,  
            "FundedBy": null  
        }  
    ]  
}**

# Response JSON

**{  
    "IsSuccess": true,  
    "AccountNo": 10003307,  
    "Messages": null**

**}**

# RETAILER-AssignTag

# API: AssignTag

**Description:** This API can be used by Regular Sub Agents (or Corporate Customers with RetailerId ) to assign Tag for those vehicles which are in Active State. This API accepts Tag Serial number and License Plate number as input along with RetailerId. The Tag should belong to the RetailerId .This API follows the existing Business and Validation rules to that of POS Portal Tag Assignment Process. Tag Assignment can be requested for multiple vehicles with a respective Tag Serial Number for each class.

**The API Checks the following Business Rules**

1. Is the RetailerId Specified in the request is Valid Regular Sub Agent and exist in the CCH system.
2. Is the Status of each of the Vehicle Number specified in the request is **Active** Status.
3. Is The Tag Serial Number specified for each Vehicle is Valid and is available at Retailer Inventory for Tag Assignment.
4. Is The Tag Serial Number specified for each Vehicle in request is of same vehicle class for the respective vehicle (i.e CAR\JEEP\VAN Tag cannot be assigned for Trucks).
5. After Tag Assignment API Should register the Tag to NPCI Mapper.
6. Should Consider Tag Fee Waiver Codes if exists.

Note: In case of Multiple Vehicles, if any of the business rule fails for a vehicle specified in the request, those vehicle can be identified in the response with ***FailureCount*** and ***Messages*** property which displays the Vehicle number and its failure reason. Please refer Sample Response JSON at Section.

For Point 2, to check the status of a vehicle to proceed for Tag Assignment, the API ***GetVehicleStatusForAssignTag*** can be used.

**URL:** https://<host>/Retailer/AssignTag

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is accepted for Tag Assignment.

Request Attributes

|  |  |
| --- | --- |
| **AccountNo** | Customer ID of the customer, Account number of the customer to add new tag accounts.  Mandatory field.  Eg: 10011241 |
| **RetailerId** | Valid Regular Sub Agent Id belongs to a Regular MPOS. Addition of Tag accounts will be carried by API on behalf of this regular sub agent and the amount will be deducted from the wallet of this sub agent. |
| **TagDetails** | List of Tag details for the assignment of Tags for vehicles. Each Vehicle will have the following attributes. |
| **TagDetails - VehicleNumber** | License Plate or Vehicle Registration Number of the Vehicle for which Tag needs to be assigned. |
| **TagDetails -** **TagSerialNumber** | Tag Serial Number of the Tag available at Retailer to assign for the given Vehicle.  The Tag should be available at inventory for Tag Assignment and is already not assigned to any vehicle and the Vehicle class of Tag should match with Vehicle.  Eg: |

**Response Attributes**

|  |  |
| --- | --- |
| **AccountNo** | Customer ID of the Customer. |
| **Messages** | List of messages in a comma separated string with details of failure message of a vehicle. |
| **IsSuccess** | True , if the request is valid and processed successfully,  False in case the request is not valid. |
| **SuccessCount** | Number of tags Successfully assigned |
| **FailureCount** | Number of tags which are failed in Tag Assignment process. |

# Request JSON-Add on Tag Account Creation

**{  
   "AccountNo": 10003307,  
    "RetailerId": 10013077,  
    "TagDetails":**

**[  
        { "VehicleNumber" : "TS09TS1116",  
        "TagSerialNumber":"120001514"  
        }  
        ]  
}**

# Response JSON

**{  
    "IsSuccess": true,  
    "AccountNo": 10003307,  
    "Messages": null**

**}**

# RETAILER-TagReplacement

# API: TagReplacement

**Description:** This API can be used by Regular Sub Agents (or Corporate Customers with RetailerId ) to replace the existing tag of a vehicle with a new Tag in case if the existing tag of the vehicle is Lost\Returned Damaged \Stolen. This API accepts only a single vehicle for Tag Replacement. The requested Vehicle should have required sufficient balance to complete the assignment of a new tag. This API performs the following actions.

1. Change the Status of the existing tag to Lost\Stolen\ReturnedDamaged.
2. Moves the Available balance of the Vehicle Tag Account to TollBalance
3. Creates a new Tag Request
4. Assign the new Tag to the vehicle that was provided in the request.
5. Performs all the Business rule validations of Tag Assignment process and if success Tag Assignment process will be completed
6. In case if business validations failed or Balance not available , the Assignment process can be done using ***AssignTag*** API.

**URL:** https://<host>/Retailer/TagReplacement

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is accepted for Tag Assignment.

Request Attributes

|  |  |
| --- | --- |
| **CustomerTagAccountId** | TagAccountNumber of the Vehicle.  Eg: |
| **RetailerId** | Valid Regular Sub Agent Id belongs to a Regular MPOS. Tag Replacement will be carried by API on behalf of this regular sub agent. |
| **NewTagSerialNumber** | Serial Number of the new Tag that will replace the existing tag. |
| **ReplacementType** | Tag Can be replacement with any of the following three reasons.   * LOST * STOLEN * RETURNEDDAMAGED |
| **VehicleNumber** | Vehicle Number of the vehicle requested for Tag Replacement. |
| **VehicleClass** | Vehicle Class of the vehicle. |

**Response Attributes**

|  |  |
| --- | --- |
| **CustomerTagAccountId** | Customer Tag Account number of the Customer. |
| **Messages** | List of validation messages of string type. |
| **IsSuccess** | True , if the request is valid and processed successfully,  False in case the request is not valid. |

# Request JSON-Add on Tag Account Creation

**{**

**"CustomerTagAccountId":20132216,**

**"RetailerId":10013077,**

**"NewTagSerialNumber":"120001012",**

**"ReplacementType":"Lost",**

**"VehicleNumber":"SADASQ342345346346",**

**"VehicleClass":"Car/Jeep/Van"**

**}**

**RETURNEDDAMAGED Request Sample**

**Request :**

**{**

**"CustomerTagAccountId":20133750,**

**"RetailerId":10013077, "NewTagSerialNumber":"120001523",**

**"ReplacementType":"ReturnedDamaged",**

**"VehicleNumber":"TS09TS5559",**

**"VehicleClass":"Car/Jeep/Van"**

**}**

# Response JSON-Success Replacement

**{**

**"IsSuccess": true,**

**"CustomerTagAccountId": 20132216,**

**"Messages": [**

**"Tag request Replacement Successfully"**

**]**

**}**

# Response JSON-Low Balance

**{**

**"IsSuccess": false,**

**"CustomerTagAccountId": 20132216,**

**"Messages": [**

**"Tag Serial Number 120001011 is not in Assigned status. "**

**]}**

# RETAILER-GetVehicleStatusforAssignTag

# API: GetVehicleStatusforAssignTag

**Description:** This API can be used by Regular Sub Agents (or Corporate Customers) to check the status of the Add on Account Vehicle request. This API can be used after CreateAddonAccount and before AssignTag API to get the current status of the vehicle for the request done via CreateAddonAccount API. This API Accepts CustomerId and VehicleNumber as input request and returns the current status as response.

If the Current status in the returned response is **Processed**, then Tag can be assigned for the vehicle, else Tag Cannot be assigned for the vehicle.

**Method Type:** POST

**Content Type:** application/json

**URL:** https://<host>/Retailer/GetVehicleStatusForAssignTag

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is accepted for Tag Assignment.

Request Attributes

|  |  |
| --- | --- |
| **CustomerTagAccountId** | Customer Id\Account Number of the Customer.  Eg: |
| **VehicleNumber** | Vehicle Number of the vehicle requested for Tag Replacement. |

**Response Attributes**

|  |  |
| --- | --- |
| **CustomerId** | Customer Tag Account number of the Customer. |
| **Messages** | List of validation messages of string type. |
| **IsSuccess** | True , if the request is valid and processed successfully,  False in case the request is not valid. |
| **VehicleStatus** | List of Vehicles |
| **VehicleStatus -VehicleCurrentStatus** | Current Status of the vehicle, If payment is done for a vehicle and Tag Account number created Status will be returned as “Processed”.  Else returns “New” |
| **VehicleStatus -VehicleNumber** | Requested Vehicle Number |

# Request JSON-Add on Tag Account Creation

**{**

**"CustomerId":10015673,**

**"VehicleNumber":"AP01BP1234"**

**}**

# Response JSON

**{**

**"IsSuccess": true,**

**"CustomerId": 10015673,**

**"Messages": null,**

**"VehicleStatus": [**

**{**

**"VehicleCurrentStatus": "Processed",**

**"VehicleNumber": "AP01BP1234"**

**}**

**]**

**}**

# DSA Recharge API

# API: DSA Recharge API

**Pre-Requisite: Before using this API for Recharge, Corporate Customer should enroll as Regular MPOS with MPOS Wallet, MPOS Sub Agent should have balance available in his/her Wallet.**

**Description:** This API can be used to recharge the Tag Account of the customer and the recharge amount will be deducted from the specified regular subagent wallet.

**Method Type:** POST

**Content Type:** application/json

**URL:** https://<host>/Customer/DSARecharge

**Header:**

**APIClient\_ID** : 10014151

API\_KEY:C442D6E5D6D099FC1E7D9760917358428506150927EC1210EE5CE53359706589BC00CE

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is accepted

Request Attributes

|  |  |
| --- | --- |
| TagAccountNo | Specify the Tag Account Number of the Customer for the recharge to be done. |
| RetailerId | Regular Sub Agent id of the customer performing the recharge, recharge amount will be debited from the wallet of this agent. Recharge request will be rejected if the available wallet balance is less than the recharge amount. |
| RechargeAmount | Recharge Amount to be recharged for Tag Account |

**Response Attributes**

|  |  |
| --- | --- |
| IsSuccess | Return true and HttpStatusCode 200 if the transaction is success |
| TagAccountNo | TagAccountNo of the customer requested for Recharge |
| TransactionReferenceNumber | Transaction reference number for the recharge request. |
| RechargeAmount | Amount recharged |
| Messages | List of text messages. |

# Request JSON- DSA Recharge API

**{**

**"TagAccountNo": 10041835,  
  "RetailerId": 10038564,  
  "RechargeAmount": 100**

**}**

# Response JSON

**{**

**"IsSuccess": True,  
  "TagAccountNo": 10041835,  
  "TransactionReferenceNumber": "V000123",  
  "RechargeAmount": 100,  
  "Messages":["Recharged Successfully"]**

**}**

**{  
  "IsSuccess": False,  
  "TagAccountNo": 10041835,  
  "TransactionReferenceNumber": null,  
  "RechargeAmount": null,  
  "Messages":["Retailer has insufficient balance to recharge account"]     
}**

# API – Get DSA Recharge Details

# Request JSON- Get DSA Recharge Details

**{**

**"SubAgentId": 10003773,**

**"TransactionStartDate": "2018-10-09T00:00:00",**

**"TransactionEndDate": "2018-10-10T00:00:00",**

**"CCHTransactionReferenceNumber":"",**

**"PageNumber": 1**

**}**

# Response JSON - Get DSA Recharge Details

**{**

**"IsSuccess": true,**

**"TotalPages": 1,**

**"CurrentPageNumber": 1,**

**"NoofTxnsForEachPage": 2,**

**"TotalTransactions": 2,**

**"SubAgentId": 10003773,**

**"Messages": [],**

**"RechargeDetails": [**

**{**

**"TransactionDateTime": "2018-10-09T15:11:19.830+05:30",**

**"TransactionAmount": 500,**

**"AccountNumber": 10015762,**

**"RechargeType": "VEHICLE",**

**"VehicleNumber": "TS09EH1111",**

**"CCHTransactionReferenceNumber": "VO000000000109210"**

**},**

**{**

**"TransactionDateTime": "2018-10-09T15:09:48.983+05:30",**

**"TransactionAmount": 5000,**

**"AccountNumber": 10015762,**

**"RechargeType": "CUG",**

**"VehicleNumber": "",**

**"CCHTransactionReferenceNumber": "VO000000000109209"**

**}**

**]**

**}**

# **Get debit adjustment details**

This API fetches the debit adjustment details (other than trips) for both One wallet and normal customers. Vehicle number is not required for One Wallet Customer in the request.

# Request JSON- Get Debit Adjustment Details

**{**

**"CustomerId":10003035,**

**"VehicleNumber":"",**

**"StartDate":"2019-03-01T00:00:00",**

**"EndDate":"2019-03-07T00:00:00",**

**"IsPagingRequired”: true,**

**"PageNo":1**

**}**

# Response JSON- Get Debit Adjustment Details

**"AdjustmentDetails": [**

**{**

**"AdjustmentDate": "2019-03-06T07:02:42.023Z",**

**"Amount": 20000,**

**"TagAccountNo": 0,**

**"AccountNo": 10003035,**

**"VehicleNumber": "",**

**"AdjustmentReason": "test"**

**}]**

# **Get Transactions By Posted Date**

This API fetches trips\Transactions (of both normal and one wallet customer) based on Transaction Posted Date (The date which the actual transaction is performed).

# Request JSON - Get Transactions By Posted Date

**{**

**"CustomerId":10043514,**

**"StartTransactionDate":"2019-04-07T13:10:00",**

**"EndTransactionDate":"2019-04-08T18:10:00",**

**"VehicleNumber":"YTYTYT566556565656",**

**"IsPagingRequired”: true,**

**"PageNumber":"1"**

**}**

# Response JSON - Get Transactions By Posted Date

**{**

**"CustomerId": 10043514,**

**"TransactionDetails": [**

**{**

**"ProcessingDateTime": "2019-04-08T12:20:43.923+05:30",**

**"TransactionDateTime": "2019-04-08T11:41:05+05:30",**

**"TransactionAmount": 1600,**

**"TransactionId": 8787157,**

**"VehicleNumber": null,**

**"LaneCode": "00013",**

**"PlazaCode": "001002",**

**"TransactionStatus": "POSTED",**

**"TransactionReferenceNumber": "106102586",**

**"PlazaName": "Vadodra"**

**},**

**{**

**"ProcessingDateTime": "2019-04-08T11:27:47.180+05:30",**

**"TransactionDateTime": "2019-04-08T11:21:05+05:30",**

**"TransactionAmount": 5000,**

**"TransactionId": 8787155,**

**"VehicleNumber": null,**

**"LaneCode": "00013",**

**"PlazaCode": "001002",**

**"TransactionStatus": "POSTED",**

**"TransactionReferenceNumber": "106102583",**

**"PlazaName": "Vadodra"**

**}**

**],**

**"TotalPages": 1,**

**"CurrentPageNumber": 1,**

**"NoofTxnsForEachPage": 2,**

**"TotalTransactions": 2,**

**"VehicleNumber": "YTYTYT566556565656"**

**}**

# **One Wallet Credit Transactions**

This API fetches the credit transactions of a one wallet customer (includes internal transfers as well)

# Request JSON – OneWalletCreditTransactions

**{**

**"AccountNo":10003035,**

**"FromDate":"2019-04-03T00:00:00",**

**"ToDate":"2019-04-09T00:00:00",**

**"IsPagingRequired": true,**

**"PageNo":1**

**}**

# Response JSON – OneWalletCreditTransactions

**{**

**"CustomerId": 10003035,**

**"OWCreditTransactionDetails": [**

**{**

**"DateOfTransaction": "2019-04-03T09:47:55.350+05:30",**

**"Amount": 40000,**

**"Description": "Cash Payments",**

**"TypeOfTransaction": "Cash"**

**}**

**]}**

# **Time Sync API**

# Description: This API method returns the current server time.

**URL:** https://<host>/Customer/TimeSync

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID:**90000006

**API\_KEY:**EC663F8F93830366F15926FBA05C2B826198420556297002FDA74F14357F693A537EA4

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

# **Response Attributes**

|  |  |
| --- | --- |
| **ServerCurrentTime** | Returns Current Server time |

# **Response JSON**

**{**  
**"ServerCurrentTime":"2020-01-22T16:26:50.7588645+05:30"  
   }**

# **Heart Beat API**

**Description:** This API method returns the current server time.

**URL:** https://<host>/Customer/HeartBeat

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID:**90000006

**API\_KEY:**EC663F8F93830366F15926FBA05C2B826198420556297002FDA74F14357F693A537EA4

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

# **Response Attributes**

|  |  |
| --- | --- |
| **Message** | Checks whether API works at remote server. |

# **Response JSON**

**{**  
**"Message":"HeartBeat API Responded"  
   }**

# **Customer State Extraction API**

# Description: This API method returns the customer statement related data

**URL:** https://<host>/Customer/GetCustomerStatement

**Method Type:** POST

**Content Type:** application/json

**Header:**

**APIClient\_ID:**10003946

**API\_KEY:**CCF243C459BE01E928A9EF5BEBBA05C12C5A5AC8C6297002FDA74F14356955A2196477

API Returns Bad Request (Http Status Code 400) in the response if the API request validation fails with Http Message.

API Return OK (Http Status code 200) with response if the API request is successfully processed.

# **Request Attributes**

|  |  |
| --- | --- |
| **Account Number** | The Account number to check against.Mandatory |
| **UserName** | The username of the enduser . Mandatory |
| **StartDate** | The Transaction start date: Mandatory |
| **EndDate** | The Transaction end date: Mandatory |
| **CustomerID** | The CustomerID of the customer. Optional field |

# **Request JSON**

**{**

**"AccountNumber": 10060542,**

**"CustomerId": 0,**

**"UserName":"bhavanipos",**

**"StartDate": "2019-07-28",**

**"EndDate": "2020-01-27"**

**}**

# **Response Attributes**

|  |  |
| --- | --- |
| Account details List | The Account details go in here |
| OneWalletSummaryList | The One wallet details go in here |

# **Response JSON**

**{**

**"IsSuccess": true,**

**"Messages": [],**

**"StatementList": {**

**"AccountDetailsList": [**

**{**

**"StatementDate": "2020-01-28T13:09:50Z",**

**"EndDate": "2020-01-27T18:30:00Z",**

**"StartDate": "2019-07-27T18:30:00Z",**

**"CustomerId": 0,**

**"AccountNo": 10060542,**

**"StatementReferenceNo": "280120/183950/29",**

**"StateName": "Telangana",**

**"ICICIFullAddress": "ICICI Bank Towers, Bandra Kurla Complex, Mumbai 400071",**

**"StateCode": "36",**

**"TypeOfAddress": "Permanent",**

**"CustomerGSTIN": "",**

**"Supply": "Mumbai",**

**"ICICIGSTIN": "27AAACI1195H3ZK",**

**"NameOfICCIBranch": "ICICI Bank Limited BKC",**

**"OrganizationName": "",**

**"FullAddress": "test,<BR/>hyderabad - 520003,<BR/>Telangana,<BR/>INDIA.",**

**"FullName": "VK RISH"**

**}**

**],**

**"AccountTransactionsList": [],**

**"AccountTripsList": null,**

**"CustomerAdjustmentsList": null,**

**"CUGTransactionsList": null,**

**"GSTINDetailsList": null,**

**"UPIGSTINDetailsList": null,**

**"OneWalletSummaryList": [**

**{**

**"EndingBalance": 0.0000,**

**"BeginingBalance": 0.0000,**

**"CreditAmount": 0.0000,**

**"DebitAmount": 0.0000,**

**"AccountNumber": 0,**

**"BalanceType": "Miscellaneous Wallet"**

**},**

**{**

**"EndingBalance": 0.0000,**

**"BeginingBalance": 0.0000,**

**"CreditAmount": 0.0000,**

**"DebitAmount": 0.0000,**

**"AccountNumber": 0,**

**"BalanceType": "Chargeback Wallet"**

**},**

**{**

**"EndingBalance": 0.0000,**

**"BeginingBalance": 0.0000,**

**"CreditAmount": 0.0000,**

**"DebitAmount": 0.0000,**

**"AccountNumber": 0,**

**"BalanceType": "Cashback Wallet"**

**},**

**{**

**"EndingBalance": 0.0000,**

**"BeginingBalance": 0.0000,**

**"CreditAmount": 0.0000,**

**"DebitAmount": 0.0000,**

**"AccountNumber": 0,**

**"BalanceType": "Security Tag Deposit Wallet"**

**},**

**{**

**"EndingBalance": 0.0000,**

**"BeginingBalance": 0.0000,**

**"CreditAmount": 0.0000,**

**"DebitAmount": 0.0000,**

**"AccountNumber": 0,**

**"BalanceType": "One Wallet"**

**}**

**],**

**"OneWalletVehiclesummaryList": [**

**{**

**"EndingBalance": 0,**

**"BeginingBalance": 0,**

**"Blacklisted": false,**

**"TripCount": 0,**

**"AccountNumber": 0,**

**"CustomerId": 20337501,**

**"Status": "Active",**

**"VehicleType": "Car/Jeep/Van",**

**"VehicleNumber": "1234567180"**

**}**

**],**

**"OneWalletCashbackDetailsList": [],**

**"OneWalletChargebackDetailsList": [],**

**"OneWalletSDDetailsList": [],**

**"OWRefundDetailsList": null,**

**"OWMiscellaneousDetailsList": []**

**}**

**}**

# Master Data

**Please refer the below excel sheet for master data to be used in createaddontagaccount**



# Date Format

All the dates that need to be passed in the request to the following APIs should be ISO8601 format.

For more details on ISO8601 format please refer <https://en.wikipedia.org/wiki/ISO_8601>.

The Response returned by API is followed with Date Format in ISO8601.

**ISO8601 DateTime Format:**

Format: YYYY-MM-DDThh:mm:ssZ+/-hh:mm

(Ex: 2017-07-16T19:20:30+05:30)

where;

YYYY = four-digit year

MM = two-digit month (01=January, etc.)

DD = two-digit day of month (01 through 31)

hh = two digits of hour (00 through 23) (am/pm NOT allowed)

mm = two digits of minute (00 through 59)

ss = two digits of second (00 through 59)

Z +/- hh:mm = time zone indicator(Z) followed by time zone difference from GMT in hours and minutes. THIS IS OPTIONAL. If not provided, it is assumed to be IST (+05.30).

# Process Flow Diagram:

API Based Transaction System

# API Security

***Security Server Certificates/Transport Level Security***

* SSL Certificate needs to be procured for secured data transmissions.
* Corporate Customer System accessing the Issuing System, which is SSL/TLS enabled (HTTPS). This helps both the Systems to exchange data with each other in encrypted format with secure channel.
* For Server SSL certificates, ICICI Bank Ltd needs to procure the certificates by Trusted Certifying authority.

***Message Authentication:***

* The Authentication Process followed with every request message header which includes CUSTOMER ID & its respective API KEY.

# Document History

**Document History**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version** | **Date** | **Author** | **Summary** | **Approved By** | **Approved Date** |
| 1.0 | 12/07/2017 | Madhu Rudhra BA Lead | Initial Doc | Swati  ICICI Bank Ltd |  |
| 1.1 | 10/08/2017 | Rajendra,  Madhu Rudhra | Added Customer app specific APIs |  |  |
| 1.2 | 18/08/2017 | Rajendra,  Madhu Rudhra | 4.5 Section- Renamed API and API Response |  |  |
| 1.3 | 08/01/2018 | Rajendra | Added new fields and renamed TransactionReferenceNumber | Raka  ICICI Bank Ltd |  |
| 1.4 | 03/05/2018 | Rajendra | Added new API - Send OTP details and updated method returning 204 error code | Raka |  |
| 1.5 | 02/07/2018 | Rajendra | Added APIs for Retailer\Corporate Customer for Add on Tag Creation, Assignment and Replacement | Swati |  |
| 1.6 | 06/09/2018 | Rajendra | Add API for DSA Recharge |  |  |