External Interface/Public Rest API Document

PreTUPS 7.7.0

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Document History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Version Number | Created/Modified On: | Description of Changes | Author | Reviewer | Comments |
| 1.0 | 31-07-2017 | Rest API | Harshad Maheshwari |  |  |
| 1.1 | 16-05-2019 | Voucher Pin Expiry Extension API | Deepa Shyam |  |  |

Document Information

This chapter gives a brief introduction to the scope and organization of this document.

## Purpose& Scope of this document

The purpose of this document is to describe the interface between PreTUPS and Rest API Interface. This document covers Services as offered to operator for interfacing PreTUPS with 3rd parties.

The scope of this document is limited to the methodology being envisaged for PreTUPS service specific APIs, which could be used by External systems to interface with PreTUPS.

## Definitions, Acronyms and Abbreviations

|  |  |
| --- | --- |
| Term | Full Form |
| REST | Representational State Transfer |
| HTTP | Hypertext Transfer Protocol |
| API | Application Program Interface |
| JSON | JavaScript Object Notation |
| O | Optional |
| M | Mandatory |
| N | Numeric |
| A | Alpha Numeric |
| D | Date |
| C | Characters. |

**Field Type: <Type of Field> (<Maximum length of field>) for e.g.**

**A (10)** means the field has alphanumeric value and the maximum length of field can be 10

## Audience

* Mahindra Comviva team

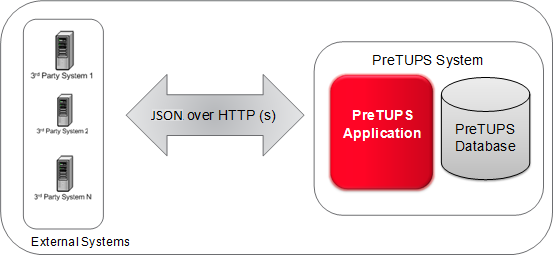
## References

NA

Rest Service (3rd Party/Public) API

The details of the Rest Service APIsare explained in the subsequent sections.

## Architecture



* **External system**: The system, which sends the request to PreTUPS System in JSON over HTTP format.
* **PreTUPS System**: The PreTUPS System includes PreTUPS Application and PreTUPS Database. The Interaction between PreTUPS Application and Database is internal.

## Communication

The communication between External system and PreTUPS would be JSON over HTTP. The External system would make the HTTP connection with PreTUPS and send the request content as JSON. Response of each request would also be sent as JSON.

## Authentication

To authenticate the External system, PreTUPS will define a Gateway for External system. PreTUPS will give the defined gateway information details to External system users. External system will send this gateway information while making HTTP connection with PreTUPS for each request. Authentication information will be send by JSON. Details of authentication information are as follows

* LOGIN
* PASSWORD
* REQUEST\_GATEWAY\_CODE
* REQUEST\_GATEWAY\_TYPE
* SERVICE\_PORT
* SOURCE\_TYPE
* Details of above-mentioned field are described in Connection procedure section.

## Connection Procedure

The External system calls the specific URL to make the HTTP Connection with PreTUPS. The details of HTTP Header and URL are mentioned below.

HTTP Header Information

POST <URL> HTTP

Content-type: application/json

Connection: close

URL

<http://host:port/pretups/rest/c2s-rest-receiver/type>

type = Request Type

## Channel User Balance Enquiry

External system will send channel user balance enquiry to PreTUPS in the following format:

# URL

http://host:port/pretups/rest/c2s-rest-receiver/exusrbalreq

# Request Syntax

{

"reqGatewayLoginId": "pretups",

"reqGatewayPassword": "1357",

"reqGatewayCode": "REST",

"reqGatewayType": "REST",

"servicePort": "190",

"sourceType": "JSON",

"data": {

"date": "07/11/2017",

"extnwcode": "NG",

"msisdn": "7200009910",

"pin": "1357",

"loginid": "",

"password": "",

"extcode": "",

"extrefnum": "",

“language1”:””

}

}

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number of external system. | 12345 | A (20) | O |
| language1 | Language Code | Language Code | 1 | D(10) | O |
| Note: Between msisdn, userLoginId and userExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request. | | | | | |

# Response Syntax

PreTUPS will send the following response (acknowledgement) to External system for the channel user balance enquiry request.

# {

# "statusCode": 200,

# "status": true,

# "successMsg": "SUCCESS",

# "dataObject": {

# "type": "EXUSRBALRESP",

# "TXNSTATUS": "200",

# "DATE": "14/07/2017 14:24:33",

# "EXTREFNUM": "",

# "RECORD": [

# {

# "PRODUCTCODE": "",

# "PRODUCTSHORTNAME": "",

# "BALANCE": ""

# },

# ]

# },

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXUSRBALRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | 200 | N (10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| Record | JSON format of data fetched form DB | JSON format of data fetched form DB | {“Key”:”Value”} | A | M |
| recordkey to identify a single record. Will be repeated in case of the multiple products for a channel user. In case of the single product then only once sub key:value pair will be present. | | | | | |
| productCode | Product code of the product | * Product code of the product |  | N (10) | M |
| productShortName | Short name of the product | Short name of the product |  | A (15) | M |
| Balance | Balance of the product | Balance of the product in higher denomination of local currency e.g. $ |  | N (20,2) | M |

# Business Rules

* Type will identify the type of resource.
* Data object will have all the data related to operation

## 2.6 Channel to Channel Transfer Service

The External System will send the following request for C2C transfer to channel user. The request format and details of request are mentioned below.

# URL

http://host:port/pretups/rest/c2s-rest-receiver/c2ctrf

# Request Syntax

# {

# "reqGatewayLoginId": "pretups",

# "reqGatewayPassword": "1357",

# "reqGatewayCode": "REST",

# "reqGatewayType": "REST",

# "servicePort": "190",

# "sourceType": "JSON",

# "data": {

# "date": "",

# "extnwcode": "",

# "msisdn": "",

# "pin": "",

# "loginid": "",

# "password": "",

# "extcode": "",

# "extrefnum": "",

# "msisdn2": "",

# "loginid2": "",

# "extcode2": "",

# "products": [{

# "productcode": "",

# "qty": ""

# }],

# "language1": ""

# }

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | M |
| msisdn2 | Channel user/Subscriber 2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| loginid2 | Channel user2 loginid | Login ID of the Channel user 2 | Mo\_cce | A (20) | O |
| extcode2 | External code of the channel user 2 | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| Products | JSON object of data required for products | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| productCode | Product short code | 101 | 5 | O | M (Product short code .fixed value 101 should be used.) |
| Qty | Quantity that needs to be transferred | Quantity to be transferred | 50055 | N (20) | M |
| language1 | Language Code | Language Code | 1 | D(10) | O  Default value 0 |
| Note: Between msisdn, LoginId and rExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request.  Note: Between msisdn2, LoginId2 and ExtCode2 one of them must be present, either msisdn, userLoginId or userExtCode. | | | | | |

# Response Syntax

The External System will receive response for C2C transfer to channel user from PreTUPS system. The request format and details of request are mentioned below.

# {

# "statusCode": 200,

# "status": true,

# "dataObject": {

# "type": "C2CRET",

# "date": "18/07/2017 17:34:20",

# "txnstatus": "SUCCESS",

# "extrefnum": "2313412",

# "message": "",

# "txnid": "",

# "errorcode": ""

# },

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXC2CTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A(10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | 20 | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## 2.7 Channel to Channel Return Service

The External System will send the following request for C2C Return to channel user. The request format and details of request are mentioned below.

# URL

http://host:port/pretups/rest/c2s-rest-receiver/c2cret

# Request Syntax

# {

# "reqGatewayLoginId": "pretups",

# "reqGatewayPassword": "1357",

# "reqGatewayCode": "REST",

# "reqGatewayType": "REST",

# "servicePort": "190",

# "sourceType": "JSON",

# "data": {

# "date": "",

# "extnwcode": "",

# "msisdn": "",

# "pin": "",

# "loginid": "",

# "password": "",

# "extcode": "",

# "extrefnum": "",

# "msisdn2": "",

# "loginid2": "",

# "extcode2": "",

# "products": [{

# "productcode": "",

# "qty": ""

# }],

# "language1": ""

# }

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| msisdn2 | Channel user/Subscriber 2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| loginid2 | Channel user2 loginid | Login ID of the Channel user 2 | Mo\_cce | A (20) | O |
| extcode2 | External code of the channel user 2 | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| Products | JSON object of data required for products | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| productCode | Product short code | 101 | 5 | O | Product short code .fixed value 101 should be used. |
| Qty | Quantity that needs to be transferred | Quantity to be transferred | 50055 | N (20) | M |
| language1 | Language Code | Language Code | 1 | D(10) | O  Default value 0 |
| Note: Between msisdn, LoginId and ExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request.  Note: Between msisdn2, LoginId2 and ExtCode2 one of them must be present, either msisdn, userLoginId or userExtCode. | | | | | |

# Response Syntax

The External System will receive response for C2C return to channel user from PreTUPS system. The request format and details of request are mentioned below.

# {

# "statusCode": 200,

# "status": true,

# "dataObject": {

# "type": "C2CRET",

# "date": "18/07/2017 17:34:20",

# "txnstatus": "SUCCESS",

# "extrefnum": "2313412",

# "message": "",

# "txnid": "",

# "errorcode": ""

# },

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXC2CTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A(10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | 20 | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## 2.8 Channel to Channel Withdraw Service

The External System will send the following request for C2C withdraw from channel user. The request format and details of request are mentioned below.

# URL

http://host:port/pretups/rest/c2s-rest-receiver/c2cwithdraw

# Request Syntax

# {

# "reqGatewayLoginId": "pretups",

# "reqGatewayPassword": "1357",

# "reqGatewayCode": "REST",

# "reqGatewayType": "REST",

# "servicePort": "190",

# "sourceType": "JSON",

# "data": {

# "date": "",

# "extnwcode": "",

# "msisdn": "",

# "pin": "",

# "loginid": "",

# "password": "",

# "extcode": "",

# "extrefnum": "",

# "msisdn2": "",

# "loginid2": "",

# "extcode2": "",

# "products": [{

# "productcode": "",

# "qty": ""

# }],

# "language1": ""

# }

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | M |
| msisdn2 | Channel user/Subscriber 2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| loginid2 | Channel user2 loginid | Login ID of the Channel user 2 | Mo\_cce | A (20) | O |
| extcode2 | External code of the channel user 2 | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| Products | JSON object of data required for products | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| productCode | Product short code | 101 | 5 | O | M (Product short code .fixed value 101 should be used.) |
| Qty | Quantity that needs to be transferred | Quantity to be transferred | 50055 | N (20) | M |
| language1 | Language Code | Language Code | 1 | D(10) | O  Default value 0 |
| Note: Between msisdn, LoginId and ExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request.  Note: Between msisdn2, LoginId2 and ExtCode2 one of them must be present, either msisdn, userLoginId or userExtCode.. | | | | | |

# Response Syntax

The External System will receive response for C2C withdraw to channel user from PreTUPS system. The request format and details of request are mentioned below.

# {

# "statusCode": 200,

# "status": true,

# "dataObject": {

# "type": "C2CWITHDRAW",

# "date": "18/07/2017 17:34:20",

# "txnstatus": "SUCCESS",

# "extrefnum": "2313412",

# "message": "",

# "txnid": "",

# "errorcode": ""

# },

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXC2CTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A(10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | AN(20) | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## 2.9Channel User Pin Change

External system will send channel user PinChange to PreTUPS in the following format:

# URL

http://host:port/pretups/rest/c2s-rest-receiver/chngpin

# Request Syntax

{

"reqGatewayLoginId": "pretups",

"reqGatewayPassword": "1357",

"reqGatewayCode": "REST",

"reqGatewayType": "REST",

"servicePort": "190",

"sourceType": "JSON",

"data": {

"date": "",

"extnwcode": "NG",

"msisdn": "7200009910",

"oldpin": "1357",

"loginid": "",

"password": "",

"extcode": "",

"extrefnum": "",

“language1”:””,

“remarks”:””

}

}

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number of external system. | 12345 | A (20) | O |
| language1 | Language Code | Language Code | 1 | D(10) | O |
| remarks | Remarks | Remark | [pin change | AN(30) | O |
| Note: Between msisdn, userLoginId and userExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request. | | | | | |

# Response Syntax

PreTUPS will send following response (acknowledgement) to External Interface for Change Pin request:

# {

# "statusCode": 200,

# "status": true,

# "successMsg": null,

# "formError": null,

# "globalError": null,

# "parameters": null,

# "dataObject": {

# "type": "CHNGPIN",

# "date": "",

# "txnstatus": "SUCCESS",

# "extrefnum": "",

# "message": "",

# "errorcode": ""

# },

# "fieldError": null,

# "messageCode": null

# }}

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXRCTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A (10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | 20 | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## C2S Transfer Service (Customer Recharge)

External Interface will send Customer Recharge request to PreTUPS in the following format:

# URL

http://host:port/pretups/rest/c2s-rest-receiver/rctrf

# Request Syntax

# {

# "reqGatewayLoginId": "pretups",

# "reqGatewayPassword": "1357",

# "reqGatewayCode": "REST",

# "reqGatewayType": "REST",

# "servicePort": "190",

# "sourceType": "JSON",

# "data": {

# "date": "",

# "extnwcode": "NG",

# "msisdn": "7212345630",

# "pin": "1357",

# "loginid": "",

# "password": "",

# "extcode": "",

# "extrefnum": "",

# "msisdn2": "7269879875",

# "amount": "100",

# "language1": "0",

# "language2": "0",

# "selector": "1"

# }

# }

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| msisdn2 | Channel user/Subscriber 2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | M |
| amount | <Amount> | Numeric Only. | 100 | 10 | M |
| language1 | <Retailer Language> | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O |
| language2 | < Payee Language> | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O |
| Selector | <Selector> | Selector should be numeric  1 – CVG  2- C  3- VG | 1 | A(10) | M |
| Note: Between msisdn, userLoginId and userExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request. | | | | | |

# Response Syntax

PreTUPS will send following response (acknowledgement) to External Interface for Credit recharge request:

# {

# "statusCode": 200,

# "status": true,

# "dataObject": {

# "type": "RCTRF",

# "date": "27/07/2017 17:20:19",

# "txnstatus": "SUCCESS",

# "extrefnum": "",

# "message": "mclass^2&pid^61:U:Success",

# "txnid": "R170727.1720.100001",

# "errorcode": ""

# },

# }Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXRCTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A (10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | 20 | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## Post Paid Bill Payment (Collection)

A Channel User would be able to reverse a customer’s Post paid account by initiating Collection/Bill Payment Request

# URL

http://host:port/pretups/rest/c2s-rest-receiver/postpaid

# Request format:

{

"reqGatewayLoginId": "pretups",

"reqGatewayPassword": "1357",

"reqGatewayCode": "REST",

"reqGatewayType": "REST",

"servicePort": "190",

"sourceType": "JSON",

"data": {

"date": "",

"extnwcode": "",

"msisdn": "",

"pin": "",

"loginid": "",

"password": "",

"extcode": "",

"extrefnum": "",

"msisdn2": "",

"amount": "",

"language1": "",

"language2": "",

"selector": ""

}

}

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| msisdn2 | Channel user/Subscriber 2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| amount | <Amount> | Numeric Only. | 100 | 10 | M |
| language1 | <Retailer Language> | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O |
| language2 | < Payee Language> | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O |
| Selector | <Selector> | Selector should be numeric  1 – CVG  2- C  3- VG | 1 | A(10) | M |
| Note: Between msisdn, userLoginId and userExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request. | | | | | |

# Response Syntax

PreTUPS will send following response (acknowledgement) to External Interface for Credit recharge request:

# {

# "statusCode": 200,

# "status": true,

# "dataObject": {

# "type": "RCTRF",

# "date": "",

# "txnstatus": "",

# "extrefnum": "",

# "message": "",

# "txnid": "”,

# "errorcode": ""

# },

# }Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXRCTRFRESP | A (20) | M |
| **txnStatus** | **Transaction Status** | **Status of the request**   * **Transaction Status= 200 means Success,** * **Transaction Status Other than 200 means failed** | **200** | **N (10)** | **M** |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | 20 | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## Last Transaction Details

The External system will send the last transfer status request to PreTUPS. The request format and the details of request are mentioned below.

# URL

http://host:port/pretups/rest/c2s-rest-receiver/lasttrf

# Request Syntax

{

"reqGatewayLoginId": "",

"reqGatewayPassword": "",

"reqGatewayCode": "",

"reqGatewayType": "",

"servicePort": "",

"sourceType": "",

"data": {

"date": "",

"extnwcode": "",

"msisdn": "",

"pin": "",

"loginid": "",

"password": "",

"extcode": "",

"language1": ""

}

}

# Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| language1 | <Retailer Language> | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | M |
| Note: Between msisdn, userLoginId and userExtCode one of them must be present, either msisdn, userLoginId or userExtCode. , If msisdn is provided then pin is mandatory All of them can also be present in request. And if login id is present then password is mandatory | | | | | |

# Response Syntax

PreTUPS send the acknowledgement to the External system about the transaction status.

# {

# "statusCode": 200,

# "status": true,

# "dataObject": {

# "type": "LASTTRF",

# "date": "",

# "txnstatus": "",

# "extrefnum": "",

# "message": "",

# "txnid": “",

# "txntype": "",

# "txndate": "”

# "records": [

# {

# "productcode":””,

# "productshortname": "",

# "balance": ""

# }

# ]

# },

# }Fields Detail

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| type | Response type | Response Type | EXLSTTRFRESP | A (20) | M |
| txnstatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | 200 | N (7) | M |
| date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | A (20) | O |
| message | Message that will be given in response | Message |  | A (250) | O |
| txnDate | Date and Time of transaction | * Date and time of transaction. HH are in 24 Hour format | 12/05/08 12:30 | D(20) | O |
| trfType | TYPE of Transaction | * The transaction type could be C2S, C2C & or O2C | C2C | A(20) | O |
| record | JSON format of data fetched form DB | JSON format of data fetched form DB | {“Key”:”Value”} | A | M |
| recordkey to identify a single record. Will be repeated in case of the multiple products for a channel user. In case of the single product then only one key:value pair will be present. | | | | | |
| productCode | Product code of the product | Product code of the product – **Fixed value 101** | 101 | N (10) | M |
| productShortName | Short name of the product |  | Etopup | A(30) | O |
| balance | Balance of the product | Transfer Amount | 100 | N(10) | O |

# Business Rules

* Type will identify the type of resource.
* Data object will have all the data related to operation

## User Creation API

Using this API, external system would be able to create Channel users in Easy load.

# URL

http://host:port/pretups/rest/opt-rest-receiver/useradd

# Request Syntax

{

"reqGatewayLoginId": "",

"reqGatewayPassword": "",

"reqGatewayCode": "",

"reqGatewayType": "",

"servicePort": "",

"sourceType": "",

"data": {

"date": "",

"extnwcode": "",

"msisdn": "",

"pin": "",

"loginid": "",

"password": "",

"extcode": "",

"extrefnum": "",

"data": [{

"geographycode": "",

"parentmsisdn": "",

"parentexternalcode": "",

"usercatcode": "",

"username": "",

"shortname": "",

"usernameprefix": "",

"subscribercode": "",

"externalcode": "",

"contactperson": "",

"contactnumber": "",

"ssn": "",

"address1": "",

"address2": "",

"city": "",

"state": "",

"country": "",

"emailid": "",

"webloginid": "",

"webpassword": "",

"msisdnlist": [{

"primarymsisdn": "",

"msisdn2": "",

"msisdn3": ""

}]

}]

}

}

# Fields Detail

| KEY | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Date and time | Date and time on which request generated by external transaction server, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O |
| extnwcode | Network code | Network code of the Channel User defined in PreTUPS as External Network code | AK | A (2) | M |
| msisdn | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| extcode | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O |
| **Between EXTCODE, MSISDN and LOGINID value of one of them must be present. All of them can also be present in the request** | | | | | |
| extrefnum | External reference number. | External reference number of the request initiator. | 1234 | A(20) | M |
| Data | JSON object of data required for user | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| parentMsisdn | Parent MSISDN | MSISDN of the parent channel user  Should be left blank in case of 1st level channel users  **Should be left blank in case of Operator user creation request** | 9818101010 | A (10) | O |
| parentExtCode | Parent External code | External code of the parent channel user  Should be left blank in case of 1st level channel users  **Should be left blank in case of Operator user creation request** | 22434 | A(12) | O |
| **For Channel user creation request, between PARENTMSISDNand PARENTEXTERNALCODE value of one of them must be present; Both can also be present in the request.**  **Value should be left blank in case of Operator user creation request** | | | | | |
| geographyCode | geographycode | Geography code of the new channel user | ZAR | A(10) | O |
| userCatCode | Category code | Category code of the new operator or channel user | DIST | A (10) | M |
| userName | User name | User name of the new channel user | Alpha Dealer | A (80) | M |
| shortName | Short name | Short name of the new operator or channel user | AD | A (15) | O |
| userNamePrefix | User name prefix | User name prefix of the new operator or channel user | M/S , Mr, Miss, Mrs | A (10) | M |
| subscriberCode | Subscriber Code | Code of the new operator or channel user | AD001 | A (12) | O |
| externalCode | External code | EXTERNAL code of the new operator or channel user. Should be unique value. | AD100001 | A (12) | O |
| contactPerson | Contact person | Name of the contact person | David | A (80) | O |
| contactNumber | Contact number | Phone number of the contact person | 9811098110 | N(15) | O |
| ssn | Social Security number | Social Security number of the contact person | 123456 | A (15) | O |
| designation | Designation | Designation of the user | Dealer | A (30) | O |
| address1 | Address1 | Address line 1 of the new channel user | Address line 1 | A (50) | O |
| address2 | Address2 | Address line 2 of the new operator or channel user | Address line 2 | A (50) | O |
| city | City | City of the new operator or channel user | Delhi | A (30) | O |
| state | State | State of the new operator or channel user | New Delhi | A (30) | O |
| country | Country | Country of the new operator or channel user | India | A (20) | O |
| emailId | E-mail id | E-mail id of the new channel user | david@email.com | A (60) | O |
| webLoginId | Login ID | Web login id of the new operator or channel user.  **Mandatory in case of Operator user creation**  **Not applicable for category, which does not have web access.**  **System default web password would get associated with the new user during creation.** | Dealer1 | A (20) | O |
| webPassword | Web Password | Password for web access of new operator or channel user.  **Not applicable for category, which does not have web access.** | Passw0rd | A (20) | O |
| **msisdns – Channel user Transaction MSISDN details. In-case of Operator user, value of MSISDN1 only needs to be provided** | | | | | |
| msisdns | JSON object of data required for user | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| primarymsisdn | Users Primary MSISDN | User Primary Transaction Mobile Number1  This is mandatory to define  In-case of Operator user, this number would get associated | 9910321500 | N(10) | M |
| msisdn2 | Users Other MSISDN | User Other Transaction Mobile Number2  **Applicable only if multiple mobile number is allowed for the Category**  **Not applicable in case of Operator user creation** | 9910321501 | N(10) | O |
| msisdn3 | Users Other MSISDN | User other Transaction Mobile Number3  **Applicable only if multiple mobile number is allowed for the Category**  **Not applicable in case of Operator user creation** | 9910321502 | N(10) | O |

GEOGRAPHYCODE value is mandatory if IS\_DEFAULT\_PROFILE is false

# Business Rules

* Web login id is optional only for those Category users, which does not have web access.
* **Web Login ID is mandatory in case of Operator user creation request.**
* MSISDN1 key:value is mandatory for creation of Operator or Channel user.
* MSISDN2, MSISDN3 are optional & would depend on the number of MSISDNs allowed for the category. Not applicable for Operator user creation
* If web access is allowed to the category, and there is no login ID mentioned in the request, then web login ID would be same as user’s primary MSISDN after successful creation of the user. **This rule would not be applicable for Operator users creation**
* If parent is the owner of the category, then parent information should be left blank in the request. **Parent info should also be left blank in-case of Operator user creation**
* The default group role of the Category (where the user is being created) would automatically get associated with the new user. This would be applicable incase web is allowed for the category. **Same would be applicable for Operator user creation**
* Newly created Channel user would needs to be approved by Operator user using the available web GUI & the following attributes needs to be associated with the Channel user
  + Transfer Control Profile
  + Commission Profile
  + Grade
* All Category services will automatically get associated with the newly created Channel user. Not applicable for Operator user creation
* Newly created Channel user would be automatically assigned with system defined default Mobile number PIN & web login password (if applicable).
* Newly created Operator user would be automatically assigned with system defined default web login password.
* All other business rules as currently applicable for Operator & Channel user creation remain same.
* Category code, Division & Department short code would be provided by Mahindra Comviva during the deployment of this CR. Post delivery, it would be the responsibility of Operator to maintain/manage the list out of the EL system.
* Since there can be only one superadmin account in EL, hence further superadmins cannot be created using this API

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against User creation request:

{

"statusCode": 200,

"status": true,

"dataObject": {

"type": "",

"date": "",

"txnstatus": "",

"extrefnum": "",

"message": "",

"userid": "",

"errorcode": "",

"extcode": "",

"primarymsisdn": ""

},

}

Fields Detail

| KEY | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| type | Response type | Response Type – **Fixed value** | USERADDRESP | A (20) | M |
| userId | PreTUPS user ID | PreTUPS internal User ID generated during user registration | SADL0000000034 | A (15) | M |
| extcode | External code | EXTERNAL code of the operator or channel user registered | AD100001 | A (10) | M |
| primarymsisdn | Mobile number | Primary Transaction MSISDN of the new Operator or Channel user | 9810333333 | N(15) | M |
| txnStatus | Transaction Status | Status of the User registration request   * Transaction Status = 200 means Success, * Transaction Status Other than 200 means failed | 200 | N (7) | M |
| message | Response message | Response message against user creation request | Message test | A (250) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

* The value of TYPE is fixed, as mentioned above
* Upon successful creation, PreTUPS would send a SMS notification to the newly created Operator or Channel user’s primary MSISDN

## Operator to Channel Transfer API

O2C Transfers are used by Operators to transfer TopUp credit to Channel user’s account. The O2C transfers can be of two types, Sale Transfer and Free of Cost (FOC) Transfer.

* In Sale Transfer, operator transfers TopUp credit to the Channel user’s accounts and charge for that transfer.
* In Free of Cost Transfer, Operator transfers the TopUp credit to the Channel user’s account Free of Charge. Free of Cost transfer is usually used by the operator for some promotional purposes.

Transfers process has two steps, Initiation and Approval.

* **Initiation**: In initiation, the transfer will be initiated for the channel user. But the TopUp credit will be credited in channel user accounts after approval. The initiation can be done by channel user and also by operator for selected channel user.
* **Approval:** The TopUp credit will be credited in channel user account only after approval. Only operator will do approval for transfers.
* Above two steps are applicable for the manual O2C transfer, but in case of the External system this process is single step known as the Direct Transfer.

# Direct Transfer

The direct transfer can be used for both sale and FOC transfer. In this type of transfer, request will be send by External system and the TopUp credit will be transferred to the channel user’s account. The channel user will be notified about this transaction through SMS with its transaction details and new balance.

# Request Syntax

The External system will send the following request for direct transfer. The request format and details of request are mentioned below.

# URL

http://host:port/pretups/rest/c2s-rest-receiver/o2ctrf

{

"reqGatewayLoginId": "pretups",

"reqGatewayPassword": "1357",

"reqGatewayCode": "REST",

"reqGatewayType": "REST",

"servicePort": "190",

"sourceType": "JSON",

"data": {

"exttxndate": "21/07/17",

"extnwcode": "PB",

"msisdn": "7171717171",

"pin": "1357",

"loginid": "",

"password": "",

"extcode": "",

"exttxnnumber": "231213412",

"products": [{

"productcode": "101",

"qty": "1"

}],

"trfcategory": "SALE",

"refnumber": "",

"paymentdetails": [{

"paymenttype": "CASH",

"paymentinstnumber": "",

"paymentdate": "21/07/17"

}],

"remarks": "xzzxc"

}

}

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| TYPE | Request type | Request Type, should be sent with each request | O2CINTREQ | A (15) | M |
| EXTNWCODE | Network code | Network code of the Operator User defined in PreTUPS as External Network code | MO | A (2) | M |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| **Between EXTCODE, MSISDN and LOGINID value of one of them must be present. All of them can also be present in the request**  Channel user MSISDN  All MSISDN should be in national dial format.  **Between (MSISDN and PIN) or EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **When MSISDN is available in request then PIN is mandatory for the request.** | | | | | |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN and EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **In case of EXTCODE in request PIN is not mandatory.** | 123 | A (10) | M |
| EXTTXNNUMBER | Unique number of the transaction | Unique transaction number generated by the External system for the transaction. Numeric | 1234 | N (10) | M |
| EXTTXNDATE | Transaction Date | Transaction Date of transaction in External system in format i.e  dd/mm/yy | 06/09/06 | D (10) | M |
| PRODUCTS - Product Details, product code must be 101. | | | | | |
| PRODUCTCODE | Product Code | Unique Product Code to be transferred, in case of single product default code is 101 | 101 | N (10) | M |
| QTY | Approved Quantity | Numeric Only. | 50 | N (8) | M |
| TRFCATEGORY | Transfer Category | Types of Transfer. Types can be Sale Transfer or FOC Transfer. For Sale Transfer the value will be **SALE** and for FOC Transfer the value will be **FOC.** This tag has only one value among SALE and FOC. | SALE  And  FOC | C (5) | M |
| REFNUMBER | Reference number for the transaction | Reference number for the transaction, if any | Ab123 | A (10) | O (Tag isOptional) |
| PAYMENTDETAILS: Payment details of the O2C transfer. | | | | | |
| PAYMENTTYPE | Type of payment i.e. Demand draft, Cash, Cheque, Others | Other than the defined types they have to be added in the system | DD, CASH, CHQ, OTH | C (15) | M |
| PAYMENTINSTNUMBER | Payment instrument no | Payment instrument numbers. Not required in case CASH | 1234 | A (15) | O (Tag isOptional) |
| PAYMENTDATE | Payment Date | Date on which Payment has been Received in format i.e. dd/mm/yy | 06/09/06 | D (10) | M |
| REMARKS | Remarks for the transaction | Remarks to be given for the transaction | O2C Approve | A (100) | O (Tag isOptional) |
| PIN | Pin of the user | Pin provided to channel user | 1357 | O (4) | O (Tag isOptional) |

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against Operator to channel request:

{

"statusCode": 200,

"status": true,

"dataObject": {

"type": "",

"date": "",

"txnstatus": "",

"extrefnum": "",

"message": “",

"txnid": "",

"errorcode": ""

},

"fieldError": null,

"messageCode": null

}

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXC2CTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A(10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | A(20) | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## Operator to Channel Withdraw

Operator can withdraw TopUp credit from Channel user account. Withdraw provides the facility to Operators to get back the TopUp credit from Channel user account at any point of time. The withdraw transaction issued by Operator for selected channel user. In this transaction the channel user’s account will be debited and operator’s stock will be credited. The channel user will get the notification about transaction and its new balance via SMS.

# Request Syntax

The External System will send the following request for withdraws. The request format and details of request are mentioned below.

# URL

http://host:port/pretups/rest/c2s-rest-receiver/o2cwithdraw

{

"reqGatewayLoginId": "",

"reqGatewayPassword": "",

"reqGatewayCode": "",

"reqGatewayType": "",

"servicePort": "",

"sourceType": "",

"data": {

"exttxndate": "”,

"extnwcode": "",

"msisdn": "",

"pin": "",

"loginid": "",

"password": "",

"extcode": "",

"exttxnnumber": "",

"products": [{

"productcode": "",

"qty": ""

}],

"trfcategory": "",

"refnumber": "",

"paymentdetails": [{

"paymenttype": "",

"paymentinstnumber": "",

"paymentdate": "”

}],

"remarks": ""

}

}

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| TYPE | Request type | Request Type, should be sent with each request | O2CINTREQ | A (15) | M |
| EXTNWCODE | Network code | Network code of the Operator User defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN | Channel user MSISDN | All MSISDN should be in national dial format.  **Between (MSISDN and PIN) or EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **When MSISDN is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | M |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| **Between EXTCODE, MSISDN and LOGINID value of one of them must be present. All of them can also be present in the request**  Channel user MSISDN  All MSISDN should be in national dial format.  **Between (MSISDN and PIN) or EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **When MSISDN is available in request then PIN is mandatory for the request.** | | | | | |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN and EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **In case of EXTCODE in request PIN is not mandatory.** | 123 | A (10) | M |
| EXTTXNNUMBER | Unique number of the transaction | Unique transaction number generated by the External system for the transaction. Numeric | 1234 | N (10) | M |
| EXTTXNDATE | Transaction Date | Transaction Date of transaction in External system in format i.e  dd/mm/yy | 06/09/06 | D (10) | M |
| PRODUCTS - Product Details, product code must be 101. | | | | | |
| PRODUCTCODE | Product Code | Unique Product Code to be transferred, in case of single product default code is 101 | 101 | N (10) | M |
| QTY | Approved Quantity | Numeric Only. | 50 | N (8) | M |
| TRFCATEGORY | Transfer Category | Types of Transfer. Types can be Sale Transfer or FOC Transfer. For Sale Transfer the value will be **SALE** and for FOC Transfer the value will be **FOC.** This tag has only one value among SALE and FOC. | SALE  And  FOC | C (5) | M |
| REFNUMBER | Reference number for the transaction | Reference number for the transaction, if any | Ab123 | A (10) | O (Tag isOptional) |
| PAYMENTDETAILS: Payment details of the O2C transfer. | | | | | |
| PAYMENTTYPE | Type of payment i.e. Demand draft, Cash, Cheque, Others | Other than the defined types they have to be added in the system | DD, CASH, CHQ, OTH | C (15) | M |
| PAYMENTINSTNUMBER | Payment instrument no | Payment instrument numbers. Not required in case CASH | 1234 | A (15) | O (Tag isOptional) |
| PAYMENTDATE | Payment Date | Date on which Payment has been Received in format i.e. dd/mm/yy | 06/09/06 | D (10) | M |
| REMARKS | Remarks for the transaction | Remarks to be given for the transaction | O2C Approve | A (100) | O (Tag isOptional) |
| PIN | Pin of the user | Pin provided to channel user | 1357 | O (4) | O (Tag isOptional) |

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against Operator to channel request:

{

"statusCode": 200,

"status": true,

"dataObject": {

"type": "",

"date": "",

"txnstatus": "",

"extrefnum": "",

"message": “",

"txnid": "",

"errorcode": ""

},

}

| **KEY** | **Fields** | **Remarks** | **Example** | **Field Type** | **Optional/**  **Mandatory** |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXC2CTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | SUCCESS | A (10) | M |
| Date | Date and time | Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |
| txnId | Transaction ID | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | AN(20) | M |
| Message | Message that will be given in response | Message |  | A (500) | O |
| errorcode | Error code | Error code | 7015 | N(10) | O |

## Operator To Channel Return

Channel Users can Return TopUp Credits, to their Operators. Return is a process using which a Channel user can gracefully return TopUp credits from its own account to the Operator’s account. After successful transaction the Channel user’s account would be debited with the requested amount and a notification message would be sent to Channel user along with the indication of its new balance

# Request Syntax

The External System will send the following request for return. The request format and details of request are mentioned below.

# Request Syntax

# URL

http://host:port/pretups/rest/c2s-rest-receiver/o2cret

{

"reqGatewayLoginId": "",

"reqGatewayPassword": "",

"reqGatewayCode": "",

"reqGatewayType": "",

"servicePort": "",

"sourceType": "",

"data": {

"exttxndate": "”,

"extnwcode": "",

"msisdn": "",

"pin": "",

"loginid": "",

"password": "",

"extcode": "",

"exttxnnumber": "",

"products": [{

"productcode": "",

"qty": ""

}],

"trfcategory": "",

"refnumber": "",

"paymentdetails": [{

"paymenttype": "",

"paymentinstnumber": "",

"paymentdate": "”

}],

"remarks": ""

}

}

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| TYPE | Request type | Request Type, should be sent with each request | O2CINTREQ | A (15) | M |
| EXTNWCODE | Network code | Network code of the Operator User defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN | Channel user MSISDN | All MSISDN should be in national dial format.  **Between (MSISDN and PIN) or EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **When MSISDN is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | M |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| password | Password | Password of the Channel user | 2468 | A (20) | O |
| pin | Channel user/Subscriber PIN | PIN of the user | 123 | A (20) | O |
| **Between EXTCODE, MSISDN and LOGINID value of one of them must be present. All of them can also be present in the request**  Channel user MSISDN  All MSISDN should be in national dial format.  **Between (MSISDN and PIN) or EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **When MSISDN is available in request then PIN is mandatory for the request.** | | | | | |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN and EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request**  **In case of EXTCODE in request PIN is not mandatory.** | 123 | A (10) | M |
| EXTTXNNUMBER | Unique number of the transaction | Unique transaction number generated by the External system for the transaction. Numeric | 1234 | N (10) | M |
| EXTTXNDATE | Transaction Date | Transaction Date of transaction in External system in format i.e  dd/mm/yy | 06/09/06 | D (10) | M |
| PRODUCTS - Product Details, product code must be 101. | | | | | |
| PRODUCTCODE | Product Code | Unique Product Code to be transferred, in case of single product default code is 101 | 101 | N (10) | M |
| QTY | Approved Quantity | Numeric Only. | 50 | N (8) | M |
| TRFCATEGORY | Transfer Category | Types of Transfer. Types can be Sale Transfer or FOC Transfer. For Sale Transfer the value will be **SALE** and for FOC Transfer the value will be **FOC.** This tag has only one value among SALE and FOC. | SALE  And  FOC | C (5) | M |
| REFNUMBER | Reference number for the transaction | Reference number for the transaction, if any | Ab123 | A (10) | O (Tag isOptional) |
| PAYMENTDETAILS: Payment details of the O2C transfer. | | | | | |
| PAYMENTTYPE | Type of payment i.e. Demand draft, Cash, Cheque, Others | Other than the defined types they have to be added in the system | DD, CASH, CHQ, OTH | C (15) | M |
| PAYMENTINSTNUMBER | Payment instrument no | Payment instrument numbers. Not required in case CASH | 1234 | A (15) | O (Tag isOptional) |
| PAYMENTDATE | Payment Date | Date on which Payment has been Received in format i.e. dd/mm/yy | 06/09/06 | D (10) | M |
| REMARKS | Remarks for the transaction | Remarks to be given for the transaction | O2C Approve | A (100) | O (Tag isOptional) |
| PIN | Pin of the user | Pin provided to channel user | 1357 | O (4) | O (Tag isOptional) |

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against Operator to channel request:

{

"statusCode": 200,

"status": true,

"dataObject": {

"type": "",

"date": "",

"txnstatus": "",

"extrefnum": "",

"message": “",

"txnid": "",

"errorcode": ""

},

}

# Fields Detail

| KEY | Fields | Remarks | Example | Field Type | **Optional/**  Mandatory |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | EXC2CTRFRESP | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success,   Transaction Status Other than 200 means failed | SUCCESS | A (10) | M |
| Date | Date and time | * Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| Extrefnum | External Reference number | Reference number that was passed by the external transaction server | 12345 | A (20) | O |

## Voucher Pin Expiry Extension

To modify the expiry date of vouchers in following cases:

**1 : Extension of expiry date**

* 1. The operator has overprinted stock of a particular product, and their sales projections have gone wrong. This is leading to the substantial unsold inventory of vouchers in the market.
  2. This remaining stock of vouchers will expire and post which it will become dead stock for the operators which they will have to destroy
  3. The operator would want to extend the expiry date of the vouchers and save the cost of these printed unused vouchers

**2 : Advancement of expiry date**

1. The operator has launched an aggressive product in the market
2. With the change in competition scenario, the context has changed, and the operator wants to withdraw sales of this “aggressive” voucher
3. To hard stop the sales, operator wants this product to expire earlier than its original expiry date

# Request Syntax

The External System will send the following request for return. The request format and details of request are mentioned below.

# Request Syntax

# URL

<http://host:port/pretups/rest/opt-rest-receiver/vmspinext>

{

"reqGatewayLoginId": "",

"reqGatewayPassword": "",

"reqGatewayCode": "",

"reqGatewayType": "",

"servicePort": "",

"sourceType": "",

"data": {

"date": "",

"extnwcode": "",

"loginid": "",

"password": "",

"vouchertype": " ",

"from\_serial\_no": "",

"to\_serial\_no": "",

"newexpirydate":""

"expiry\_change\_reason":""

}

}

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| reqGatewayLoginId | User’s login Id in PreTUPS | Valid login Id of user | btchadm | A (10) | M |
| reqGatewayPassword | User’s password in PreTUPS | Valid password of user | 1357 | A (20) | M |
| reqGatewayCode | Request Gateway Code. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| reqGatewayType | Request Gateway Type. This field is used by PreTUPS to identify request interface. | REST | M | 10 | This must be defined in the PreTUPS System |
| servicePort | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| sourceType | Source Type of the request gateway, as defined in PreTUPS | JSON | M | 10 | Fixed value |
| Data | JSON object of data required for service | Valid JSON Object required for operation | {“Key”:”Value”,”Key”:”Value”} | A | M |
| Date | Current date | Current date, should be sent with each request | yyyy/mm/dd |  | M |
| extnwcode | Network Code | Code of External Network in which the service is to be used in. | GN or NG | 10 | M |
| loginid | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | M |
| password | Password | Password of the Channel user | 2468 | A (8) | M |
| vouchertype | Voucher type |  | Test\_phy | A (10) | M |
| from\_serial\_no | Start serial number | Start serial number of voucher | 9728000000000008 | VOMS\_SERIAL\_NO\_MAX\_LENGTH | M |
| to\_serial\_no | Last serial number | Last serial number of voucher | 9728000000000008 | VOMS\_SERIAL\_NO\_MAX\_LENGTH | M |
| newexpirydate | Modified expiry date | Date on which voucher expiry date will be set | yyyy/mm/dd | D (10) | M |
| expiry\_change\_reason | Change reason | reason to be given for expiry date change |  | A (100) | O (Tag isOptional) |

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against request:

{

"statusCode": 200,

"status": true,

"dataObject": {

"type": "",

"date": "",

"txnstatus": "",

" message ": "",

"errorcode": ""

}

}

# Fields Detail

| KEY | Fields | Remarks | Example | Field Type | **Optional/**  Mandatory |
| --- | --- | --- | --- | --- | --- |
| Type | Response type | Response Type | VMSPINEXT | A (20) | M |
| txnStatus | Transaction Status | Status of the request   * Transaction Status= 200 means Success,   Transaction Status Other than 200 means failed | SUCCESS | A (10) | M |
| Date | Date and time | * Date and time on which PreTUPS sent response. HH are in 24 Hour format | DD/MM/YYYY HH24:MI:SS | D (20) | M |
| message | Message that will be given in response | Message that will be given in response |  | A (500) | O |

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