External Interface/Public API Document

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Confidentiality Statement

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Document History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Version Number | Created/Modified On: | Description of Changes | Author | Reviewer | Comments |
| 1.0 | 13-01-2014 | Initial version post internal review | Product Management |  |  |
| 1.1 | 04-08-2017 | Voucher query API modified action tag added | Yogesh |  |  |
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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 External Gateway Interface. This document covers RP2P 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 |
| EXTGW | External Gateway / System |
| HTTP | Hypertext Transfer Protocol |
| API | Application Program Interface |
| XML | Extensible Markup Language |
| 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

External Gateway (3rd Party/Public) API

The details of the External Gateway (EXTGW) APIs are explained in the subsequent sections.

## Architecture



* **External system**: The system, which sends the request to PreTUPS System in XML 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 XML over HTTP. The External system would make the HTTP connection with PreTUPS and send the request content as XML. Response of each request would also be sent as XML.

## 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 URL. 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: xml

Connection: close

URL

[http://PreTUPShost/PreTUPSReceiever?LOGIN=<Login>&Password=<Password>&Request\_Gateway\_Code=<RequestGatewayCode>&Request\_Gateway\_Type=<RequestGatewayType>&Service\_Port=<ServicePort>&Source\_Type=<SourceType](http://Pretupshost/PretupsReceiever?LOGIN=%3cLogin%3e&Password=%3cPassword%3e&Request_Gateway_Code=%3cRequestGatewayCode%3e&Request_Gateway_Type=%3cRequestGatewayType%3e&Service_Port=%3cServicePort%3e&Source_Type=%3cSourceType)>

Example

http://PreTUPShost/PreTUPSReceiever?LOGIN=123&Password=123&Request\_Gateway\_Code=EXT0011&Request\_Gateway\_Type=EXTGW&Service\_Port=190&Source\_Type=EXT

| Fields | Description | Example | Optional/  Mandatory | Max Length | Remarks |
| --- | --- | --- | --- | --- | --- |
| PreTUPSHost | The IP, port and host name. The IP and Port on which PreTUPS application is running | 172.16.1.109:5555/PreTUPS/ | M | N.A | N.A |
| LOGIN | Login Id of the request gateway, as defined in PreTUPS | Test | M | 10 | This must be registered into PreTUPS System |
| PASSWORD | Password of the request gateway, as defined in PreTUPS | Test | M | 10 | This must be registered into PreTUPS System |
| REQUEST\_GATEWAY\_CODE | Request Gateway Code. This field is used by PreTUPS to identify request interface. | EXT0011 | M | 10 | This must be defined in the PreTUPS System |
| REQUEST\_GATEWAY\_TYPE | Request Gateway Type. This field is used by PreTUPS to identify request interface. | EXTGW | M | 10 | This must be defined in the PreTUPS System |
| SERVICE\_PORT | Service port of the request gateway, as defined in PreTUPS | 190 | M | 10 | This must be defined in the PreTUPS System |
| SOURCE\_TYPE | Source Type of the request gateway, as defined in PreTUPS | EXTSYS | M | 10 | Fixed value |

* Actual values would be shared with MTM during deployment

## Operator to Channel Transfer XML 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.

<?xml version="1.0"?>

<COMMAND>

<TYPE><O2CINTREQ></TYPE>

<EXTNWCODE>***<Network External Code>***</EXTNWCODE>

<MSISDN>***<Retailer MSISDN>***</ MSISDN>

<PIN>***<PIN>***</ PIN>

<EXTCODE>***< Channel user unique External code>***</EXTCODE>

<EXTTXNNUMBER>**<Unique transaction number>**

</EXTTXNNUMBER >

<EXTTXNDATE>**<dd/mm/yy>**</EXTTXNDATE>

<PRODUCTS>

<PRODUCTCODE>**101**</PRODUCTCODE>

<QTY>***<Qty>***</QTY>

</PRODUCTS>

<TRFCATEGORY>***<SALE or FOC>***</TRFCATEGORY>

<REFNUMBER>***<Reference number>***</REFNUMBER>

<PAYMENTDETAILS>

<PAYMENTTYPE>***<DD>***</PAYMENTTYPE>

<PAYMENTINSTNUMBER>***<1234>***

</PAYMENTINSTNUMBER>

<PAYMENTDATE>***<dd/mm/yy>***</PAYMENTDATE>

</PAYMENTDETAILS>

<REMARKS>***<Any free text>***</REMARKS>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| 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 |
| 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) |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

**Example of XML for O2C direct transfer request**

<?xml version="1.0"?><COMMAND><TYPE>O2CINTREQ</TYPE><EXTNWCODE>NG</EXTNWCODE><MSISDN>7272777777</MSISDN><PIN>1357</PIN><EXTCODE></EXTCODE><EXTTXNNUMBER>122455966</EXTTXNNUMBER><EXTTXNDATE>16/03/16</EXTTXNDATE><PRODUCTS><PRODUCTCODE>101</PRODUCTCODE><QTY>100</QTY></PRODUCTS><TRFCATEGORY>SALE</TRFCATEGORY><REFNUMBER></REFNUMBER><PAYMENTDETAILS><PAYMENTTYPE>CHQ</PAYMENTTYPE><PAYMENTINSTNUMBER>8668990</PAYMENTINSTNUMBER><PAYMENTDATE>16/03/16</PAYMENTDATE><PAYMENTDETAILS><REMARKS>O2CDirectTransfer</REMARKS></COMMAND>

**Example of XML for FOC direct transfer request**

<COMMAND>

   <TYPE>O2CINTREQ</TYPE>

   <EXTNWCODE>OB</EXTNWCODE>

   <MSISDN></MSISDN>**<PIN></PIN>**

   <EXTCODE>9810974622</EXTCODE>

   <EXTTXNNUMBER>1000001</EXTTXNNUMBER>

   <EXTTXNDATE>05/05/12</EXTTXNDATE>

   <PRODUCTS>

         <PRODUCTCODE>101</PRODUCTCODE>

         <QTY>100</QTY>

   </PRODUCTS>

   <TRFCATEGORY>FOC</TRFCATEGORY>

   <REFNUMBER>100014</REFNUMBER>

   <PAYMENTDETAILS>

         <PAYMENTTYPE>CASH</PAYMENTTYPE>

         <PAYMENTINSTNUMBER></PAYMENTINSTNUMBER>

         <PAYMENTDATE>07/05/12</PAYMENTDATE>

   </PAYMENTDETAILS>

   <REMARKS>FOC transaction from External system</REMARKS>

</COMMAND>

# Response Syntax

PreTUPS send the acknowledgement to the External system about the transaction status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

<?xml version="1.0"?>

<COMMAND>

<TYPE>O2CINTRESP</TYPE>

<TXNID>***<PreTUPS Transaction ID>***</TXNID>

<TXNSTATUS>***<Transaction Status>***</TXNSTATUS>

<EXTTXNNUMBER>***<Unique transaction number of External system>*** </EXTTXNNUMBER>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | O2CINTRESP | C (15) | M |
| TXNID | PreTUPS Transaction ID | Transaction ID for O2C transfer generated by PreTUPS System. | OT061005.1628.0001 | A (20) | M |
| TXNSTATUS | Transaction Status | Status of the O2C transfer request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| EXTTXNNUMBER | Unique id of the transaction in External transaction system | Unique Transaction number of the O2C transfer request in the External System. | 1234345 | A (10) | M |

* The value for TYPE tag is fixed as mentioned in syntax.

**Example of XML for O2C direct transfer response**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd"><COMMAND><TYPE>O2CINTRESP</TYPE><TXNID>OT070517.1759.0001</TXNID><TXNSTATUS>200</TXNSTATUS><EXTTXNNUMBER>100114</EXTTXNNUMBER></COMMAND>

## 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.

<?xml version="1.0"?>

**<COMMAND>**

**<TYPE>O2CWDREQ</TYPE>**

**<EXTNWCODE><networkcode></EXTNWCODE>**

**<MSISDN><RetailerMSISDN></MSISDN>**

**<PIN><channel user's pin></PIN>**

**<EXTCODE><externalcode></EXTCODE>**

**<PRODUCTS><PRODUCTCODE>101</PRODUCTCODE><QTY>withdraw units</QTY></PRODUCTS>**

**<EXTTXNNUMBER><unique number for transaction></EXTTXNNUMBER>**

**<EXTTXNDATE><dd/mm/yy></EXTTXNDATE>**

**<REMARKS></REMARKS>**

**</COMMAND>**

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request. | O2CWDREQ | 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 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 |
| PIN | Pin of the user | Pin provided to channel user | 1357 | O (4) | O (Tag isoptional) |
| 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 | 123 | A (10) | M |
| PRODUCTS - Product Details, sub tags of this tag will be repeated in case of the multiple products. In case of the single product send product code 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 |
|  | | | | | |
| EXTTXNNUMBER | Unique number of the transaction | Unique transaction number generated by the External system for the transaction. Alphanumeric | 1234 | A (10) | M (Tag is mandatory) |
| EXTTXNDATE | Transaction Date | Transaction Date of transaction in External system in format i.e.  dd/mm/yy | 06/09/16 | D (10) | M (Tag is mandatory) |
| REMARKS | Remarks for the transaction | Remarks to be given for the transaction | O2C Approve | A (100) | O (Tag isoptional) |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

****Example of XML for withdraw request****

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd"><COMMAND><TYPE>O2CWDREQ</TYPE><EXTNWCODE>NG</EXTNWCODE><MSISDN>7272777777</MSISDN><PIN>1357</PIN><EXTCODE></EXTCODE><PRODUCTS><PRODUCTCODE>101</PRODUCTCODE><QTY>600</QTY></PRODUCTS><EXTTXNNUMBER>9568959900</EXTTXNNUMBER><EXTTXNDATE>16/03/16</EXTTXNDATE><REMARKS></REMARKS></COMMAND>

# Response Syntax

PreTUPS system sends the acknowledgement to the External system about the transaction status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

<?xml version="1.0"?>

<COMMAND>

<TYPE>O2CWDRESP</TYPE>

<TXNID><PreTUPS Transaction ID></TXNID>

<EXTTXNNUMBER><External System Txn number></EXTTXNNUMBER>

<TXNSTATUS><Transaction Status></TXNSTATUS>

</COMMAND>

**Fields Detail**

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | O2CWDRESP | C (15) | M |
| TXNID | PreTUPS Transaction ID | Transaction ID for O2C transfer generated by PreTUPS System. | OW061005.1658.0001 | A (20) | M |
| TXNSTATUS | Transaction Status | Status of the O2C transfer request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| EXTTXNNUMBER | Unique id of the transaction in External transaction system | Unique Transaction number of the O2C transfer request in the External System. | 1234345 | A (10) | O |

* The Transaction status details explained in appendix.
* The value for TYPE tag is fixed as mentioned in syntax.

## 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

<?xml version="1.0"?>

<COMMAND>

<TYPE>O2CRETREQ</TYPE>

<EXTNWCODE>NG</EXTNWCODE>

<MSISDN><Retailer MSISDN></MSISDN>

<PIN>1357</PIN>

<EXTCODE><channel User external code></EXTCODE>

<PRODUCTS><PRODUCTCODE>101</PRODUCTCODE><QTY><return quantity></QTY></PRODUCTS>

<EXTTXNNUMBER><unique number for the transaction></EXTTXNNUMBER>

<EXTTXNDATE><dd/mm/yy></EXTTXNDATE>

<REMARKS><any remarks></REMARKS>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request | O2CRETREQ | 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 EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request | 9942222 | N (15) | M |
| PIN | Channel user pin | Pin of channel user | 2468 | N(4) | M |
| 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 | 123 | A (10) | M |
| PRODUCTS - Product Details, sub tags of this tag will be repeated in case of the multiple products. In case of the single product send product code 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 |
|  |  |  |  |  |  |
| EXTTXNNUMBER | Unique number of the transaction | Unique transaction number generated by the External system for the transaction. Alphanumeric | 1234 | A (10) | M (Tag is mandatory) |
| EXTTXNDATE | Transaction Date | Transaction Date of transaction in External system in format i.e.  dd/mm/yy | 06/09/06 | D (10) | M (Tag is mandatory) |
| REMARKS | Remarks for the transaction | Remarks to be given for the transaction | O2C Approve | A (100) | O (Tag is optional) |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

# Response Syntax

PreTUPS system would send the acknowledgement to the External system regarding the transaction status. The acknowledgement will be in XML and sent as response of the request. The XML response details are mentioned below.

# Response Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>OCRETRESP</TYPE>

<TXNID**>**<PreTUPS Transaction ID></TXNID>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<EXTTXNNUMBER><External System Txn number></EXTTXNNUMBER>

</COMMAND>

# Fields Details

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | OCRETRESP | C (15) | M |
| TXNID | PreTUPS Transaction ID | Transaction ID for O2C transfer generated by PreTUPS System. | OR061005.1658.0001 | A (20) | M |
| TXNSTATUS | Transaction Status | Status of the O2C transfer request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| EXTTXNNUMBER | Unique id of the transaction in External transaction system | Unique Transaction number of the O2C transfer request in the External System. | 1234345 | A (10) | O |

* The Transaction status details explained in appendix.
* The value for TYPE tag is fixed as mentioned in syntax.

## Channel to Channel Transfer Service

Channel to Channel (C2C) transfer/withdraw through external system would allow Channel users to transfer and withdraw airtime or TopUp value in PreTUPS through some external system.

This should be a single step process and it is assumed that final request of transfer/withdraw would come to PreTUPS.

It is also assumed that Externals system maintains Channel users details and there is at least one common filed in both system, like mobile number or login id or external code.

External code is the Channel user unique code maintained in External system. External code should be mapped with user information in PreTUPS.

Channel to Channel (C2C) transfer through external system would allow Channel users to transfer airtime or TopUp value in PreTUPS through some external system.

# Request Syntax

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

<?xml version="1.0"?>

<COMMAND>

<TYPE>**EXC2CTRFREQ**</TYPE>

<DATE><**Date and time** ></DATE>

<EXTNWCODE>*<***Network External Code***>*</EXTNWCODE>

<MSISDN1>*<***Channel user 1 MSISDN***>*</MSISDN1>

<PIN><**Channel user 1 PIN**></PIN>

<LOGINID><**Channel user 1 Login ID**></LOGINID>

<PASSWORD><**Channel user 1 Login Password**></PASSWORD>

<EXTCODE>*<***Channel user 1 unique External code***>*</EXTCODE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<MSISDN2><**Channel user 2 MSISDN**></MSISDN2>

<EXTCODE2><**Channel user 2 unique External Code**></EXTCODE2>

<LOGINID2><**Channel user 2 Login ID**></LOGINID2>

<PRODUCTS>

<PRODUCTCODE>**101**</PRODUCTCODE>

<QTY>***<Qty>***</QTY>

</PRODUCTS>

<LANGUAGE1><**Channel user 1 (Sender) Language**></LANGUAGE1>

</COMMAND>

# Field Détails

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | EXC2CTRFREQ | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel user defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN1 | Channel user1 | All MSISDN should be in national dial format i.e. with out country code.  **When MSISDN1 is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | O (Tag is mandatory) |
| PIN | Channel user1 PIN | PIN of the user | 123 | A (10) | O (Tag is mandatory) |
| LOGINID | Channel user 1 login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| PASSWORD | Channel user1 Password | Password of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request.** | 2468 | A (10) | O (Tag is mandatory) |
| EXTCODE | External code of the channel user1 | Unique external code of the Channel user defined in PreTUPS. | 123 | A (10) | O (Tag is mandatory) |
| EXTREFNUM | External Reference number | Unique Reference number in the external system.  PreTUPS will not check uniqueness | 12345 | A (20) | O (Tag is mandatory) |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE. All of them can also be present in the request | | | | | |
| MSISDN2 | Channel user2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O (Tag is mandatory) |
| LOGINID2 | Channel user2 loginid | Login id of the payee (Channel user) | Ma\_c | A(20) | O (Tag is mandatory) |
| EXTCODE2 | Channel user2 Unique External Code | Unique external code of the Channel user | 145 | A(10) | O (Tag is mandatory) |
| **Note:** Between MSISDN2, LOGINID2 and EXTCODE2 value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE. All of them can also be present in request | | | | | |
| 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 | Sender Channel user’s notification language | Numeric only, Channel user Language Code  This code must be defined in PreTUPS system. | 0 | A (10) | O (Tag is mandatory)  Default value 0 |

# Response format

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.

<?xml version="1.0"?>

<COMMAND>

<TYPE>**EXC2CTRFRESP**</TYPE>

<TXNSTATUS>*<***Transaction Status***>*</TXNSTATUS>

<DATE><**Date and time**></DATE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<TXNID>*<***PreTUPS Transaction ID***>*</TXNID>

<MESSAGE><**Transaction Message**></MESSAGE>

</COMMAND>

# Field Details

| TAG | 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 | 200 | N (10) | M |
| DATE | Date and time | Date and time on which response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory) |
| 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  (Tag is mandatory) |

## 

## C2C withdraw

Channel to Channel (C2C) withdraw through external system would allow Channel users to withdraw airtime or TopUp value in PreTUPS through some external system.

# Request Syntax

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

<?xml version="1.0"?>

<COMMAND>

<TYPE> **EXC2CWDREQ**</TYPE>

<DATE><**Date and time** ></DATE>

<EXTNWCODE>*<***Network External Code***>*</EXTNWCODE>

<MSISDN1>*<***Channel user 1 MSISDN***>*</MSISDN1>

<PIN><**Channel user 1 PIN**></PIN>

<LOGINID><**Channel user 1 Login ID**></LOGINID>

<PASSWORD><**Channel user 1 Login Password**></PASSWORD>

<EXTCODE>*<***Channel user 1 unique External code***>*</EXTCODE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<MSISDN2><**Channel user 2 MSISDN**></MSISDN2>

<EXTCODE2><**Channel user 2 unique External Code**>/EXTCODE2>

<LOGINID2><**Channel user 2 Login ID**></LOGINID2>

<PRODUCTS>

<PRODUCTCODE>**101**</PRODUCTCODE>

<QTY>***<Qty>***</QTY>

</PRODUCTS>

<LANGUAGE1><**Channel user 1 (Sender) Language**></LANGUAGE1>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | **EXC2CWDREQ** | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel user defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN1 | Channel user1 | All MSISDN should be in national dial format i.e. with out country code.  **When MSISDN1 is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | O (Tag is mandatory) |
| PIN | Channel user1 PIN | PIN of the user | 123 | A (10) | O (Tag is mandatory) |
| LOGINID | Channel user 1 login ID | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request.** | Mo\_cce | A (20) | O |
| PASSWORD | Channel user1 Password | Password of the Channel user | 2468 | A (10) | O (Tag is mandatory) |
| EXTCODE | External code of the channel user1 | Unique external code of the Channel user defined in PreTUPS. | 123 | A (10) | O (Tag is mandatory) |
| EXTREFNUM | External Reference number | Unique Reference number in the external system.  PreTUPS will not check uniqueness | 12345 | A (20) | O (Tag is mandatory) |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE. All of them can also be present in the request | | | | | |
| MSISDN2 | Channel user2 MSISDN | All MSISDN should be in national dial format i.e. without country code. | 9942222 | N (15) | O (Tag is mandatory) |
| LOGINID2 | Channel user2 loginid | Login id of the payee (Channel user) | Ma\_c | A(20) | O (Tag is mandatory) |
| EXTCODE2 | Channel user2 Unique External Code | Unique external code of the Channel user | 145 | A(10) | O (Tag is mandatory) |
| **Note:** Between MSISDN2, LOGINID2 and EXTCODE2 value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE. All of them can also be present in request | | | | | |
| 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 | Sender Channel user’s notification language | Numeric only, Channel user Language Code  This code must be defined in PreTUPS system. | 0 | A (10) | O (Tag is mandatory)  Default value 0 |

# XML Response format:

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.

<?xml version="1.0"?>

<COMMAND>

<TYPE>**EXC2CWDRESP**</TYPE>

<TXNSTATUS>*<***Transaction Status***>*</TXNSTATUS>

<DATE><**Date and time**></DATE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<TXNID>*<***PreTUPS Transaction ID***>*</TXNID>

<MESSAGE><**Transaction Message**></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | **EXC2CWDRESP** | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory) |
| 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  (Tag is mandatory) |

## C2C return

Channel to Channel (C2C) return through external system would allow Channel users to return airtime or TopUp value in PreTUPS through some external system.

# Request Syntax

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

<?xml version="1.0"?>

<COMMAND>

<TYPE>**EXC2CRETREQ**</TYPE>

<DATE><**Date and time** ></DATE>

<EXTNWCODE>*<***Network External Code***>*</EXTNWCODE>

<MSISDN1>*<***Channel user 1 MSISDN***>*</MSISDN1>

<PIN>< **Channel user 1 PIN**></PIN>

<LOGINID><**Channel user 1 Login ID**></LOGINID>

<PASSWORD><**Channel user 1 Login Password**></PASSWORD>

<EXTCODE>*<***Channel user 1 unique External code***>*</EXTCODE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<MSISDN2><**Channel user 2 MSISDN**></MSISDN2>

<EXTCODE2><**Channel user 2 unique External Code**>/EXTCODE2>

<LOGINID2><**Channel user 2 Login ID**></LOGINID2>

<PRODUCTS>

<PRODUCTCODE>**101**</PRODUCTCODE>

<QTY>***<Qty>***</QTY>

</PRODUCTS>

<LANGUAGE1><**Channel user 1 (Sender) Language**></LANGUAGE1>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | **EXC2CRETREQ** | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel user defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN1 | Channel user1 | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN1 is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | O (Tag is mandatory) |
| PIN | Channel user1 PIN | PIN of the user | 123 | A (10) | O (Tag is mandatory) |
| LOGINID | Channel user 1 login ID | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | Mo\_cce | A (20) | O |
| PASSWORD | Channel user1 Password | Password of the Channel user | 2468 | A (10) | O (Tag is mandatory) |
| EXTCODE | External code of the channel user1 | Unique external code of the Channel user defined in PreTUPS. | 123 | A (10) | O (Tag is mandatory) |
| EXTREFNUM | External Reference number | Unique Reference number in the external system.  PreTUPS will not check uniqueness | 12345 | A (20) | O (Tag is mandatory) |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE. All of them can also be present in the request | | | | | |
| MSISDN2 | Channel user2 MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | O (Tag is mandatory) |
| LOGINID2 | Channel user2 loginid | Login id of the payee (Channel user) | Ma\_c | A(20) | O (Tag is mandatory) |
| EXTCODE2 | Channel user2 Unique External Code | Unique external code of the Channel user | 145 | A(10) | O (Tag is mandatory) |
| **Note:** Between MSISDN2, LOGINID2 and EXTCODE2 value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE. All of them can also be present in request | | | | | |
| 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 | Sender Channel user’s notification language | Numeric only, Channel user Language Code  This code must be defined in PreTUPS system. | 0 | A (10) | O (Tag is mandatory)  Default value 0 |

# XML Response format:

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.

<?xml version="1.0"?>

<COMMAND>

<TYPE>**EXC2CRETRESP**</TYPE>

<TXNSTATUS>*<***Transaction Status***>*</TXNSTATUS>

<DATE><**Date and time**></DATE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<TXNID>*<***PreTUPS Transaction ID***>*</TXNID>

<MESSAGE><**Transaction Message**></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | **EXC2CRETRESP** | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory) |
| 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  (Tag is mandatory) |

## Suspend & Resume Channel Users

Suspend-Resume user management will be provided to the Channel administrator. A suspended Channel user cannot login into the system. Suspend-Resume user management can be divided into two types

* **Suspend**: Channel administrator can send the request for suspension of the channel user.
* **Resume**: Channel administrator can send the request for resumption of the channel user.

Channel administrator can send a request to suspend or resume a Channel user from the system, If a Channel user is suspended from the system, then that Channel user will not allowed to use the system. After resumption, channel user can continue to access the system.

# Request Syntax

The External System will send the following request for suspend or resume a channel user. The request format and details of request are mentioned below.

<?xml version="1.0"?>

<COMMAND>

<TYPE><SRCUSRREQEX></TYPE>

<MSISDN1>< Msisdn of the Operator user ></MSISDN1>

<NETWORK><Network Code></NETWORK>

<PIN><PIN of Operator user></PIN>

<MSISDN2>< Msisdn Of user which is to be suspended ></MSISDN2>

<ACTION>S/R</ACTION>

<LANGUAGE1>0</LANGUAGE1>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Filed Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | |
| TYPE | Request type | Request Type, should be sent with each request - fixed | SRCUSRREQEX | A (20) | M |
|  |  |  |  |  |  |
| MSISDN1 | Mobile Number | Msisdn of the Operator user | 7200009908 | D(10) | M |
| NETWORK | Network code | Network code of the Operator User defined in PreTUPS as External Network code | MO | A (2) | M |
|  |  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |  |
| PIN | PIN | PIN of the Operator user | 2468 | A (8) |
|  |  |  |  |  |  |
| MSISDN2 | Mobile Number | Msisdn Of user | 7788667722 | D(10) | M |
| **DATA –Data sub tags will be considered as main request tags** | | | | | |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

**Example of XML for Suspend-Resume user request**

#DATA=<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd"><COMMAND><TYPE>SRCUSRREQEX</TYPE><MSISDN1>7700000004</MSISDN1><NETWORK>NG</NETWORK><PIN>1357</PIN><MSISDN2>7700000002</MSISDN2><ACTION>S</ACTION><LANGUAGE1>0</LANGUAGE1></COMMAND>

# Response Syntax

PreTUPS system sends the response to the Channel administrator about the request. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below

<?Xml version="1.0"?>

<COMMAND>

<TYPE>SRCUSRRESP</TYPE>

<TXNSTATUS>Status (Code)</TXNSTATUS>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common Response TAGS** | | | | | |
| TYPE | Response type | Response Type | SRCUSRRESP | A (20) | M |
| TXNSTATUS | Transaction Status | Status of the Barring request  Transaction Status= 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (10) | M |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| **DATA – Data sub tags will be send if required in the response.** | | | | | |

**Example of XML for Suspend-Resume user response**

<?xml version="1.0"?><COMMAND><TYPE>SRCUSRRESP</TYPE><TXNSTATUS>200</TXNSTATUS></COMMAND>

## C2S Transfer Service (Customer Recharge)

A Channel User would be able to recharge a customer’s account by transferring Credit from its own account to the Customer’s account.

This API also allow the other external system (Website, ATM, Vending M/C, EFT etc.) to interface with PreTUPS to use the recharge service.

# C2S Transfer (Customer Recharge) Request XML

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

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXRCTRFREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE><Network External Code></EXTNWCODE>

<MSISDN><Retailer MSISDN></MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID</LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

<EXTCODE><Channel user unique External code></EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

</COMMAND>

# Field Details

| TAG | Fields | | Remarks | | Example | | Field Type | | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | | Request Type, should be sent with each request – fixed | | EXRCTRFREQ | | A (20) | | M | |
| DATE | Date and time | | Date and time on which request was sent by external system, HH are in 24 Hour Format | | DD-MM-YYYY HH:MM:SS | | D (20) | | O | |
| EXTNWCODE | Network code | | Network code of the Channel User defined in PreTUPS as External Network code | | MO | | A (2) | | M | |
| MSISDN | Channel user/Subscriber MSISDN | | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | | 9942222 | | N (15) | | O | |
| PIN | Channel user/Subscriber PIN | | PIN of the user | | 123 | | A (10) | | O | |
| LOGINID | Login ID | | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | | Mo\_cce | | A (20) | | O | |
| PASSWORD | Password | | Password of the Channel user | | 2468 | | A (10) | | O | |
| EXTCODE | External code of the channel user | | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request** | | 123 | | A (10) | | O | |
| EXTREFNUM | External Reference number | | Unique Reference number in the external system. | | 12345 | | A (20) | | O | |
|  | | | | | | | | | | |
| MSISDN2 | | Payee 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 (Tag is mandatory) |
| LANGUAGE2 | | < Payee Language> | | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | | 0 | | A(10) | | O (Tag is mandatory) |
| SELECTOR | | <Selector> | | Selector should be numeric  1 – CVG  2- C  3- VG | | 1 | | A(10) | | M |

# Response

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXRCTRFRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS>

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | |
| 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 response was sent from PreTUPS. HH are in 24 Hour format | DD-MM-YYYY HH:MM:SS | D (20) | M |
| EXTREFNUM | External Reference number | Reference number that was passed by the external system | 12345 | A (20) | O |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message | Your request is accepted for processing | A (500) | O |

* If TXNSTATUS is 200 then the following message would be shown to the user: “Your request is accepted for processing”
* In this case External system needs to send the recharge status request to PreTUPS for checking the final status of the transaction. This can be achieved by providing a button on the page like “Check recharge status”
* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.

## C2S Transfer Status

External Interface will send recharge status request to PreTUPS in the following format: This API will be used by the external system to check the final status of the recharge

# XML format

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>EXRCSTATREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</ MSISDN>

<PIN>*<Pin>*</PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

<EXTCODE>*< Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<TXNID><PreTUPS TXN ID></TXNID>

<LANGUAGE1><Retailer Language></LANGUAGE1>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | |
| TYPE | Request type | Request Type, should be sent with each request - fixed | EXRCSTATREQ | A (20) | M |
| DATE | Date and time | Date and time on which request generated by external system, HH are in 24 Hour Format | DD-MM-YYYY HH:MM:SS | D (20) | O |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | O |
| PIN | Channel user/Subscriber PIN | PIN of the user | 123 | A (10) | O |
| LOGINID | Login ID | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | Mo\_cce | A (20) | O |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN, LOGINID and EXTCODE one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request** | 123 | A (10) | O |
| EXTREFNUM | External Reference number | Unique Reference number in the external system. | 12345 | A (20) | O |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| LANGUAGE1 | <Retailer Language> | Numeric only, Retailer Language Code This code must be defined in PreTUPS system. | 0 | 1 | O (Tag is mandatory) |

# Response

PreTUPS will send the following response (acknowledgement) to External Interface for recharge status request.

* If there are more than one service available in C2S transfer then other values for TYPE tag will be provided.

# XML format

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>EXRCSTATRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS>

<DATE><Date and time></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<REQSTATUS><Request Status></REQSTATUS>

<MESSAGE><Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | |
| TYPE | Response type | Response Type | EXRCSTATRESP | 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 response was sent by PreTUPS. HH are in 24 Hour format | DD-MM-YYYY HH:MM:SS | D (20) | M |
| EXTREFNUM | External Reference number | Reference number that was passed by the external system | 12345 | A (20) | O |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| REQSTATUS | Transaction ID Status of the One queried | 206= Fail  200=Success  205=Under Process  250=Ambiguous | 206 | A(20) | M |
| MESSAGE | Message that will given in response | Message | Transaction number DL/05/000000015 to recharge 100 INR to 9810012345 is successful. Receiver transferred value 99 INR | A (500) | O |

## C2S Transfer (Bill Payment)

External transaction server will send Customer Bill Payment request to PreTUPS in the following format:

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXPPBREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password></PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

</COMMAND>

# Field Details

| TAG | Fields | | Remarks | | Example | | Field Type | | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | | Request Type, should be sent with each request – fixed | | EXPPBREQ | | A (20) | | M | |
| DATE | Date and time | | Date and time on which request was sent by external system, HH are in 24 Hour Format | | DD/MM/YYYY HH24:MI:SS | | D (20) | | O (Tag is mandatory) | |
| EXTNWCODE | Network code | | Network code of the Channel User defined in PreTUPS as External Network code | | MO | | A (2) | | M | |
| MSISDN | Channel user/Subscriber MSISDN | | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | | 9942222 | | N (15) | | O (Tag is mandatory) | |
| PIN | Channel user/Subscriber PIN | | PIN of the user | | 123 | | A (10) | | O (Tag is mandatory) | |
| LOGINID | Login ID | | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | | Mo\_cce | | A (20) | | O | |
| PASSWORD | Password | | Password of the Channel user | | 2468 | | A (10) | | O (Tag is mandatory) | |
| EXTCODE | External code of the channel user | | Unique external code of the channel user defined in PreTUPS. | | 123 | | A (10) | | O (Tag is mandatory) | |
| EXTREFNUM | External Reference number | | Unique Reference number in the external system. | | 12345 | | A (20) | | O (Tag is mandatory) | |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, MSISDN, LOGINID or EXTCODE. All of them can also be present in request | | | | | | | | | | |
| MSISDN2 | | Payee MSISDN | | All MSISDN should be in national dial format i.e. with out country code. | | 9942222 | | N (15) | | M |
| AMOUNT | | <Amount> | | Amount to be recharge  May be in lowest denomination i.e. in cents, $1 =100 cents | | 50055  i.e. 500.55 | | N (20) | | M |
| LANGUAGE1 | | <Retailer Language> | | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | | 0 | | A (10) | | O (Tag is mandatory) |
| LANGUAGE2 | | < Payee Language> | | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | | 0 | | A(10) | | O (Tag is mandatory) |
| SELECTOR | | <Selector> | | Selector should be numeric  1 – CVG  2- C  3- VG | | 1 | | A(10) | | M  Default value 2 |

# Response

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXPPBRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS>

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| TYPE | Response type | Response Type | EXPPBRESP | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory |

* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.
* If due to some resion external system does not received response of the above request then External transaction server can send the recharge status request to PreTUPS for checking the final status of the transaction.
* If transaction status is 200 then PreTUPS will send Previous and pos balance in the message tag.

## Post Paid Bill Payment (Collection) Cancellation

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

# Request format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<**COMMAND**>

<**TYPE**><Request Type></**TYPE**>

<**EXTNWCODE**>*<Network External Code>*</**EXTNWCODE**>

<**MSISDN**>*<Retailer MSISDN>*</**MSISDN**>

<**PIN**> <Channel user PIN></**PIN**>

<**LOGINID**><Channel user Login ID</**LOGINID**>

<**PASSWORD**><Channel User Login Password</**PASSWORD**>

<**EXTCODE**>*<*Channel user unique External code*>*</**EXTCODE**>

<**EXTREFNUM**> <Unique Reference number in the external system> </**EXTREFNUM**>

<**MSISDN2**><Receiver MSISDN/Account Number></**MSISDN2**>

<**TRANSACTIONID**> <Transaction of Collection Billpay Request></ **TRANSACTIONID**

<**LANGUAGE1**><SENDER Language></**LANGUAGE1**>

<**LANGUAGE2**><Receiver Language></**LANGUAGE2**>

<**/COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – **fixed value** | COLCCNREQ | | A (20) | M |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | CP | | A (2) | M |
| MSISDN | Channel user mobile number | Mobile number of the Channel user initiating the bill payment request  **All MSISDN should be in national dial format i.e. without country code.** | 9942222 | | N (15) | O |
| PIN | Channel user MSISDN PIN | PIN of the user | 1357 | | A (10) | O |
| TRANSACTIONID | Transaction Id | Bill payment Transaction id for which reversal request initiate | C140207.1102.100001 | | A (20) | M |
| LOGINID | Login ID of the Channel user | Login ID of the Channel user initiating the request | Mo\_cce | | A (20) | O |
| PASSWORD | Password | Password of the Channel user | afs@12 | | A (10) | 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. | Unique external reference number for the request.  **Uniqueness check would not be performed in PreTUPS** | | 36427 | N (20) | O |
| MSISDN2 | Subscriber mobile number | Subscriber mobile number or account id which needs to be bill pay | | 9942222 | N (15) | M |
| LANGUAGE1 | Channel user’s notification language | Intended notification language code for the Channel user  **This code must be defined in PreTUPS system.** | | 0 for English  1 for Spanish | N | O |
| LANGUAGE2 | Subscriber’s notification language | Intended notification language code for the Channel user  **This code must be defined in PreTUPS system.** | | 0 for English  1 for Spanish | N | O |
| SELECTOR | Sub-service value | Selector should be numeric. it should be subservice id | | 1 | A(10) | O |

# Business Rules

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* When a request is processed successfully, PreTUPS would notify the Channel user through the response API only, whereas the subscriber to whom the airtime was debited would be notified through SMS(if preference for sending message to customer for this service is enabled)
* As has been agreed, PreTUPS would notify subscriber during in-case of failed & or ambiguous transaction.
* All core business rules related to all type of bill cancellation remains same.

# Response Format

PreTUPS will send following response to the External System against Cancellation request:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<**COMMAND**>

<**TYPE**><COLCCNRESP></**TYPE**>

<**TXNSTATUS**><Transaction Status></**TXNSTATUS**>

<**DATE**><Date & Time></**DATE**>

<**EXTREFNUM**><External reference number></**EXTREFNUM**>

<**TXNID**><PreTUPS Transaction ID></**TXNID**>

<**MESSAGE**><Error or success Message></**MESSAGE**>

</**COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type – **Fixed value** | COLCCNRESP | A (20) | M |
| TXNSTATUS | Transaction Status | Status of the Bill payment 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 response was sent from PreTUPS. HH are in 24 Hour format | DD-MM-YYYY HH:MM:SS | D (20) | O |
| EXTREFNUM | External Reference number | Reference number that was passed by the external system during the request | 36427 | N (20) | O |
| TXNID | Transaction ID | Transaction ID generated in PreTUPS against the Bill payment request | R130621.1150.210001 | N (20) | M |
| MESSAGE | Response message | Response message against the Bill payment request | Bill payment successful | A (250) | O |

# Business Rules

* All tags are mandatory & would be present in XML response.

## C2S Transfer (Electronic Voucher Distribution)

External transaction server will send Electronic Voucher Distribution request to PreTUPS in the following format:

# Request format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXEVDREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password></PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

</COMMAND>

# Field Details

| TAG | Fields | | Remarks | | Example | | Field Type | | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | | Request Type, should be sent with each request – fixed | | EXEVDREQ | | A (20) | | M | |
| DATE | Date and time | | Date and time on which request was sent by external system, HH are in 24 Hour Format | | DD/MM/YYYY HH24:MI:SS | | D (20) | | O (Tag is mandatory) | |
| EXTNWCODE | Network code | | Network code of the Channel User defined in PreTUPS as External Network code | | MO | | A (2) | | M | |
| MSISDN | Channel user/Subscriber MSISDN | | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | | 9942222 | | N (15) | | O (Tag is mandatory) | |
| PIN | Channel user/Subscriber PIN | | PIN of the user | | 123 | | A (10) | | O (Tag is mandatory) | |
| LOGINID | Login ID | | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | | Mo\_cce | | A (20) | | O (Tag is mandatory) | |
| PASSWORD | Password | | Password of the Channel user | | 2468 | | A (10) | | O (Tag is mandatory) | |
| EXTCODE | External code of the channel user | | Unique external code of the channel user defined in PreTUPS. | | 123 | | A (10) | | O (Tag is mandatory) | |
| EXTREFNUM | External Reference number | | Unique Reference number in the external system. | | 12345 | | A (20) | | O (Tag is mandatory) | |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request | | | | | | | | | | |
| MSISDN2 | | Payee MSISDN | | All MSISDN should be in national dial format i.e. with out country code. | | 9942222 | | N (15) | | M |
| AMOUNT | | <Amount> | | Amount to be recharge  May be in lowest denomination i.e. in cents, $1 =100 cents | | 50055  i.e. 500.55 | | N (20) | | M |
| LANGUAGE1 | | <Retailer Language> | | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | | 0 | | A (10) | | O (Tag is mandatory) |
| LANGUAGE2 | | < Payee Language> | | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | | 0 | | A(10) | | O (Tag is mandatory) |
| SELECTOR | | <Selector> | | Selector should be numeric  1 – CVG | | 1 | | A(10) | | M  Default value 1 |

# User/Sender validation login

* If MSISDN value is available then user will be validated on the basis of the MSISDN and PIN
* If EXTCODE value is available then user will be validated on the basis of the EXTCODE
* If LOGINID tag value is available then user will be validated on the basis of the LOGINID and PASSWORD.
* If values of more than one tag is present then user will be validated depending on those values e.g. (MSISDN and EXT code both present in request then user will be validated on the basis of the both)
* If all the three are available then all will be validated. Between all of them any one would be mandatory.
* Once the sender is validated, then the appropriate amount would be debited from its account.

# Response

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXEVDRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS >

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| TYPE | Response type | Response Type | EXEVDRESP | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory |

* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.
* If due to some resion external system does not received response of the above request then External transaction server can send the recharge status request to PreTUPS for checking the final status of the transaction.
* If transaction status is 200 then PreTUPS will send Previous and post balance in the message tag.

## C2S Transfer (Gift Recharge)

External transaction server will send Gift Recharge request to PreTUPS in the following format:

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXGFTRCREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password></PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

<GIFTER\_MSISDN><Gifter MSISDN></GIFTER\_MSISDN>

<GIFTER\_NAME><Gifter NAME></GIFTER\_NAME>

<GIFTER\_LANGUAGE><Gifter Language></GIFTER\_LANGUAGE>

</COMMAND>

# Field Details

| TAG | Fields | | Remarks | | Example | | Field Type | | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | | Request Type, should be sent with each request – fixed | | EXGFTRCREQ | | A (20) | | M | |
| DATE | Date and time | | Date and time on which request was sent by external system, HH are in 24 Hour Format | | DD/MM/YYYY HH24:MI:SS | | D (20) | | O (Tag is mandatory) | |
| EXTNWCODE | Network code | | Network code of the Channel User defined in PreTUPS as External Network code | | MO | | A (2) | | M | |
| MSISDN | Channel user/Subscriber MSISDN | | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | | 9942222 | | N (15) | | O (Tag is mandatory) | |
| PIN | Channel user/Subscriber PIN | | PIN of the user | | 123 | | A (10) | | O (Tag is mandatory) | |
| LOGINID | Login ID | | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | | Mo\_cce | | A (20) | | O (Tag is mandatory) | |
| PASSWORD | Password | | Password of the Channel user | | 2468 | | A (10) | | O (Tag is mandatory) | |
| EXTCODE | External code of the channel user | | Unique external code of the channel user defined in PreTUPS. | | 123 | | A (10) | | O (Tag is mandatory) | |
| EXTREFNUM | External Reference number | | Unique Reference number in the external system. | | 12345 | | A (20) | | O (Tag is mandatory) | |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request | | | | | | | | | | |
| MSISDN2 | | Payee MSISDN | | All MSISDN should be in national dial format i.e. with out country code. | | 9942222 | | N (15) | | M |
| AMOUNT | | <Amount> | | Amount to be recharge  May be in lowest denomination i.e. in cents, $1 =100 cents | | 50055  i.e. 500.55 | | N (20) | | M |
| LANGUAGE1 | | <Retailer Language> | | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | | 0 | | A (10) | | O (Tag is mandatory) |
| LANGUAGE2 | | < Payee Language> | | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | | 0 | | A(10) | | O (Tag is mandatory) |
| SELECTOR | | <Selector> | | Selector should be numeric  1 – CVG | | 1 | | A(10) | | M  Default value 1 |
| GIFTER\_MSISDN | | Gifter MSISDN | | MSISDN of the gifter. | | 9942222 | | N (15) | | M |
| GIFTER\_NAME | | Gifter NAME | | Name of the gifter. | | Chad | | A (20) | | M |
| GIFTER\_LANGUAGE | | Gifter Language | | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | | 0 | | A(10) | | O (Tag is mandatory) |

# User/Sender validation login

* If MSISDN value is available then user will be validated on the basis of the MSISDN and PIN
* If EXTCODE value is available then user will be validated on the basis of the EXTCODE
* If LOGINID tag value is available then user will be validated on the basis of the LOGINID and PASSWORD.
* If values of more than one tag is present then user will be validated depending on those values e.g. (MSISDN and EXT code both present in request then user will be validated on the basis of the both)
* If all the three are available then all will be validated. Between all of them any one would be mandatory.
* Once the sender is validated, then the appropriate amount would be debited from its account.
* Message to be send to the Gifter Number on the bases of gifter language provided

# Response

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXGFTRCRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS >

<DATE><Date and time></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| TYPE | Response type | Response Type | EXGFTRCRESP | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory |

* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.
* If due to some resion external system does not received response of the above request then External transaction server can send the recharge status request to PreTUPS for checking the final status of the transaction.
* If transaction status is 200 then PreTUPS will send Previous and post balance in the message tag.

## C2S Transfer (Fix line Recharge)

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXPSTNRCREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password></PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Noticer Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

<NOTIFICATION\_MSISDN><Notification MSISDN></NOTIFICATION\_MSISDN>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | EXPSTNRCREQ | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | O (Tag is mandatory) |
| PIN | Channel user/Subscriber PIN | PIN of the user | 123 | A (10) | O (Tag is mandatory) |
| LOGINID | Login ID | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | Mo\_cce | A (20) | O |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O (Tag is mandatory) |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O (Tag is mandatory) |
| EXTREFNUM | External Reference number | Unique Reference number in the external system. | 12345 | A (20) | O (Tag is mandatory) |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request | | | | | |
| MSISDN2 | Payee MSISDN | All MSISDN should be in national dial format i.e. with out country code. | 9942222 | N (15) | M |
| AMOUNT | <Amount> | Amount to be recharge  May be in lowest denomination i.e. in cents, $1 =100 cents | 50055  i.e. 500.55 | N (20) | M |
| LANGUAGE1 | <Retailer Language> | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | 0 | A (10) | O (Tag is mandatory) |
| LANGUAGE2 | < Noticer Langauge> | Numeric only, Noticer Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O (Tag is mandatory) |
| SELECTOR | <Selector> | Selector should be numeric  1 – CVG  2- C  3- VG | 1 | A(10) | M  Default value 1 |
| NOTIFICATION\_MSISDN | Notification MSISDN | 981239823 | 15 | M | MSISDN on which notification need to send. |

# User/Sender validation login

* If MSISDN value is available then user will be validated on the basis of the MSISDN and PIN
* If EXTCODE value is available then user will be validated on the basis of the EXTCODE
* If LOGINID tag value is available then user will be validated on the basis of the LOGINID and PASSWORD.
* If values of more than one tag is present then user will be validated depending on those values e.g. (MSISDN and EXT code both present in request then user will be validated on the basis of the both)
* If all the three are available then all will be validated. Between all of them any one would be mandatory.
* Once the sender is validated, then the appropriate amount would be debited from its account.

# Response

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXPSTNRCRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS>

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remark s | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| TYPE | Response type | Response Type | EXPSTNRCRESP | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory |

* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.
* If due to some resion external system does not received response of the above request then External transaction server can send the recharge status request to PreTUPS for checking the final status of the transaction.
* If transaction status is 200 then PreTUPS will send Previous and post balance in the message tag.

## C2S Transfer (Internet Recharge)

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE> EXINTRRCREQ </TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password></PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2><Subscriber msisdn></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Receiver Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

<NOTIFICATION\_MSISDN><Notification MSISDN></NOTIFICATION\_MSISDN>

</COMMAND>

Field Details

| TAG | Fields | | Remarks | | Example | | Field Type | | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | | Request Type, should be sent with each request – fixed | | EXINTRNTRCREQ | | A (20) | | M | |
| DATE | Date and time | | Date and time on which request was sent by external system, HH are in 24 Hour Format | | DD/MM/YYYY HH24:MI:SS | | D (20) | | O (Tag is mandatory) | |
| EXTNWCODE | Network code | | Network code of the Channel User defined in PreTUPS as External Network code | | MO | | A (2) | | M | |
| MSISDN | Channel user/Subscriber MSISDN | | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | | 9942222 | | N (15) | | O (Tag is mandatory) | |
| PIN | Channel user/Subscriber PIN | | PIN of the user | | 123 | | A (10) | | O (Tag is mandatory) | |
| LOGINID | Login ID | | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | | Mo\_cce | | A (20) | | O | |
| PASSWORD | Password | | Password of the Channel user | | 2468 | | A (10) | | O (Tag is mandatory) | |
| EXTCODE | External code of the channel user | | Unique external code of the channel user defined in PreTUPS. | | 123 | | A (10) | | O (Tag is mandatory) | |
| EXTREFNUM | External Reference number | | Unique Reference number in the external system. | | 12345 | | A (20) | | O (Tag is mandatory) | |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request | | | | | | | | | | |
| MSISDN2 | | Subscriber msisdn | | All MSISDN should be in national dial format i.e. without country code | | 7285285285 | | N (10) | | M |
| AMOUNT | | <Amount> | | Amount to be recharge  May be in lowest denomination i.e. in cents, $1 =100 cents | | 50055  i.e. 500.55 | | N (20) | | M |
| LANGUAGE1 | | <Retailer Language> | | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | | 0 | | A (10) | | O (Tag is mandatory) |
| LANGUAGE2 | | < Noticer Langauge> | | Numeric only, Noticer Language Code  This code must be defined in PreTUPS system. | | 0 | | A(10) | | O (Tag is mandatory) |
| SELECTOR | | <Selector> | | Selector should be numeric  1 – CVG  2- C  3- VG | | 1 | | A(10) | | M  Default value 1 |
| NOTIFICATION\_MSISDN | | Notification MSISDN | | 981239823 | | 15 | | M | | MSISDN on which notification need to send. |

# User/Sender validation login

* If MSISDN value is available then user will be validated on the basis of the MSISDN and PIN
* If EXTCODE value is available then user will be validated on the basis of the EXTCODE
* If LOGINID tag value is available then user will be validated on the basis of the LOGINID and PASSWORD.
* If values of more than one tag is present then user will be validated depending on those values e.g. (MSISDN and EXT code both present in request then user will be validated on the basis of the both)
* If all the three are available then all will be validated. Between all of them any one would be mandatory.
* Once the sender is validated, then the appropriate amount would be debited from its account.

# Response

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

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE> EXINTRRCRESP </TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS>

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
|  | | | | | |
| TYPE | Response type | Response Type | EXINTRNTRCRESP | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory |

* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.
* If due to some resion external system does not received response of the above request then External transaction server can send the recharge status request to PreTUPS for checking the final status of the transaction.
* If transaction status is 200 then PreTUPS will send Previous and post balance in the message tag.

## Post paid account Enquiry

A Channel User would be able to make enquiry the a customer’s postpaid account by initiating the Postpaid number enquiry request

This API would also allow other external systems like website, ATM, Vending M/C, EFT, IVR, IAT etc. to interface with PreTUPS to use the enquiry service

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<**COMMAND**>

<**TYPE**><Request Type></**TYPE**>

<**EXTNWCODE**>*<Network External Code>*</**EXTNWCODE**>

<**MSISDN**>*<Retailer MSISDN>*</ **MSISDN**>

<**PIN**>< Channel user PIN></**PIN**>

<**LOGINID**><Channel user Login ID</**LOGINID**>

<**PASSWORD**><Channel User Login Password</**PASSWORD**>

<**EXTCODE**>*<*Channel user unique External code*>*</**EXTCODE**>

<**EXTREFNUM**><Unique Reference number in the external system></**EXTREFNUM**>

<**MSISDN2**><Receiver MSISDN/Account Number></**MSISDN2**>

<**SELECTOR**><Selector></**SELECTOR**>

<**LANGUAGE1**><SENDER Language></**LANGUAGE1**>

<**LANGUAGE2**><Receiver Language></**LANGUAGE2**>

<**/COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – **fixed value** | COLENQREQ | | A (20) | M |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | CP | | A (2) | M |
| MSISDN | Channel user mobile number | Mobile number of the Channel user initiating the bill enquiry request  **All MSISDN should be in national dial format i.e. without country code.** | 9942222 | | N (15) | O |
| PIN | Channel user MSISDN PIN | PIN of the user | 1357 | | A (10) | O |
| LOGINID | Login ID of the Channel user | Login ID of the Channel user initiating the request | Cp\_posweb | | A (20) | O |
| PASSWORD | Password | Password of the Channel user | afs@12 | | A (10) | 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. | Unique external reference number for the request.  **Uniqueness check would not be performed in PreTUPS** | | 36427 | N (20) | O |
| MSISDN2 | Subscriber mobile number | Subscriber mobile number or account id which needs to be enquired | | 9942222 | N (15) | M |
| LANGUAGE1 | Channel user’s notification language | Intended notification language code for the Channel user  **This code must be defined in PreTUPS system.** | | 0 for English  1 for Spanish | N | O |
| LANGUAGE2 | Subscriber’s notification language | Intended notification language code for the Channel user  **This code must be defined in PreTUPS system.** | | 0 for English  1 for Spanish | N | O |
| SELECTOR | Sub-service value | Selector should be numeric. it should be subservice id | | 1 | A(10) | O |

# Business Rules

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* When a request is processed successfully, PreTUPS would notify the Channel user through the response API only, whereas the subscriber to whom the airtime was credited would be notified through SMS(if preference for sending message to customer for this service is enabled)
* All core business rules related to all type of enquiry remains same.

# Response Syntax

PreTUPS will send following response to the External System against bill enquiry request:

**<?xml version="1.0"?>**

**<COMMAND>**

**<TYPE>** <Request Type>**</TYPE>**

**<TXNSTATUS>** <Transaction Status>**</TXNSTATUS>**

**<TRANSACTIONID>** <Transaction Id>**</TRANSACTIONID>**

**<DATA>**

**<RECORDTYPE>**SUMMARY**</RECORDTYPE>**

**<INVOICESIZE>** <No of Records>**</INVOICESIZE>**

**<TOTALPENDINGBALANCE**><Total Pending Bill>**</TOTALPENDINGBALANCE>**

**<SERVICECODE>**<Service Code></**SERVICECODE>**

**<SERVICENAME>**<Service Name></**SERVICENAME>**

**<RECORD>**

**<INVOICENUM>**<Invoice Number></**INVOICENUM>**

**<SERVICECODE>**<Service Code></**SERVICECODE>**

**<SERVICENAME>**<Service Name></**SERVICENAME>**

**<PERIODPENDINGBALANCE>** <Period Pending balance> **</PERIODPENDINGBALANCE>**

**<MINPENDINGBALANCE>**<Minimum Pending balance></**MINPENDINGBALANCE>**

**<INVOICEDPENDINGBALANCE**> <Invoice Pending Balance>

**</INVOICEDPENDINGBALANCE>**

**<BILLPERIODSTART**><Period From >**</BILLPERIODSTART>**

**<BILLPERIODEND**><Period To>**</BILLPERIODEND>**

**</RECORD>**

**</DATA>**

**</COMMAND>**

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type – **Fixed value** | EXRCTRFRESP | A (20) | M |
| TXNSTATUS | Transaction Status | Status of the enquiry request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| TRANSACTIONID | Transaction ID | Transaction ID generated in PreTUPS against the bil enquiry request | R130621.1150.210001 | N (20) | M |
| ERRORKEY | Error Status | Status of the enquiry request  Error Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| DATE | Date and time | Date and time on which response was sent from PreTUPS. HH are in 24 Hour format | DD-MM-YYYY HH:MM:SS | D (20) | M |
| INVOICESIZE | No Of Summary Records | Size of the subscriber pending postpaid invoice | 2 | N | M |
| TOTALPENDINGBALANCE | Total Pending Bill | Subscriber Pending bill amount against all invoice number | 177.97 | N | M |
| SERVICECODE | Sub Service Code | Subscriber Sub service Code | 1 | N) | M |
| SERVICENAME | Service Name | Subscriber Service name for which invoice pending | 3play - Telefon | A (40) | M |
| INVOICENUM | Invoice Number | Invoice number for that period | 005004355647 | A (15) | M |
| SERVICECODE | Sub Service Code | Subscriber Sub service Code | 1 | N) | M |
| SERVICENAME | Service Name | Subscriber Service name for which invoice pending | 3play - Telefon | A (40) | M |
| PERIODPENDINGBALANCE | Period Pending balance | Subscriber Pending Balance for this invoice | 90.0 | N | M |
| MINPENDINGBALANCE | Minimum Pending balance | Subscriber Minimum amount to pay | 100.00 | N | M |
| INVOICEDPENDINGBALANCE | Invoice Pending balance | Subscriber Invoice Balance for this invoice | 90.0 | N | M |
| BILLPERIODSTART | Bill Period From | Invoice generated Period From | DD/MM/YY | D(10) | M |
| BILLPERIODEND | Bill Period To | Invoice generated Period To | DD/MM/YY | D(10) | M |

# Business Rules

* All tags are mandatory & would be present in XML response.

## Electronic Voucher Recharge (EVR)

A Channel User would be able to recharge a customer’s account by transferring Credit from its own account to the Customer’s account by using Electronic voucher recharge.

# Request Syntax

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>EXEVRTRFREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</ MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID</LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | EXEVRTRFREQ | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD-MM-YYYY HH:MM:SS | D (20) | O |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | MO | 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 (10) | O |
| LOGINID | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request** | 123 | A (10) | O |
| EXTREFNUM | External Reference number | Unique Reference number in the external system. | 12345 | A (20) | O |
| MSISDN2 | Payee 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 (Tag is mandatory) |
| LANGUAGE2 | < Payee Language> | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O (Tag is mandatory) |
| SELECTOR | <Selector> | Selector should be numeric  1 – CVG | 1 | A(10) | M |

# Response Syntax

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

# Response XML format:

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>EXEVRTRFRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS>

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | EXEVRTRFRESP | 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 response was sent from PreTUPS. HH are in 24 Hour format | DD-MM-YYYY HH:MM:SS | D (20) | M |
| EXTREFNUM | External Reference number | Reference number that was passed by the external system | 12345 | A (20) | O |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message | Your request is accepted for processing | A (500) | O |

* If TXNSTATUS is 200 then the following message would be shown to the user: “Your request is accepted for processing”
* In this case External system needs to send the recharge status request to PreTUPS for checking the final status of the transaction. This can be achieved by providing a button on the page like “Check recharge status”
* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.

## Private Recharge (EVD)

External transaction server will send Electronic Voucher Distribution request to PreTUPS in the following format:

# Request Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXPVEVDREQ</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<MSISDN>*<Retailer MSISDN>*</ MSISDN>

<PIN><123456></PIN>

<LOGINID><Channel user Login ID</LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

<EXTCODE>*<Channel user unique External code>*</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<MSISDN2>< Payee MSISDN></MSISDN2>

<LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | EXPVEVDREQ | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD-MM-YYYY HH:MM:SS | D (20) | O |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN | Channel user/Subscriber MSISDN | All MSISDN should be in national dial format i.e. without country code.  **When MSISDN is available in request then PIN is mandatory for the request.** | 9942222 | N (15) | O |
| PIN | Channel user/Subscriber PIN | PIN of the user | 123 | A (10) | O |
| LOGINID | Login ID | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | Mo\_cce | A (20) | O |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS.  **Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request** | 123 | A (10) | O |
| EXTREFNUM | External Reference number | Unique Reference number in the external system. | 12345 | A (20) | 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 (Tag is mandatory) |
| MSISDN2 | Payee MSISDN | All MSISDN should be in national dial format i.e. without country code.  Note: In case of Private Recharge MSISDN2 should be same as MSISDN | 9942222 | N (15) | M |
| LANGUAGE2 | < Payee Language> | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O (Tag is mandatory) |
| SELECTOR | <Selector> | Selector should be numeric  1 – CVG | 1 | A(10) | M |

D

**User/Sender validation login**

* If MSISDN value is available then user will be validated on the basis of the MSISDN and PIN
* If EXTCODE value is available then user will be validated on the basis of the EXTCODE
* If LOGINID tag value is available then user will be validated on the basis of the LOGINID and PASSWORD.
* If values of more than one tag are present then user will be validated depending on those values e.g. (MSISDN and EXT code both present in request then user will be validated on the basis of the both)
* If all the three are available then all will be validated. Between all of them any one would be mandatory.
* Once the sender is validated, then the appropriate amount would be debited from its account.

Details:

# Response Syntax

PreTUPS will send following response (acknowledgement) to External transaction server for request:

# Response Syntax

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

   <TYPE>EXPVEVDRESP</TYPE>

   <TXNSTATUS>*<Transaction Status>*</TXNSTATUS >

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

   <TXNID>*<PreTUPS Transaction ID>*</TXNID>

   <MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | |
| TYPE | Response type | Response Type | EXPVEVDRESP | 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 response was sent from PreTUPS. HH are in 24 Hour format | DD-MM-YYYY HH:MM:SS | D (20) | M |
| EXTREFNUM | External Reference number | Reference number that was passed by the external system | 12345 | A (20) | O |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | DL/05/000000015 | 20 | M |
| MESSAGE | Message that will given in response | Message | Your request is accepted for processing | A (500) | O |

* If TXNSTATUS is 200 then the following message would be shown to the user: “Your request is accepted for processing”
* If due to some resion external system does not received response of the above request then External transaction server can send the recharge status request to PreTUPS for checking the final status of the transaction.
* If the TXNSTATUS is not 200 then the user would be shown the error message (MESSAGE tag) returned in the response.

## External System Enquiry

External System would call the API for knowing the information whether subscriber belongs to Operator or not as well as providing the range (min and max) of recharge with respective to service class and service requested by subscriber.

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

# Request Syntax

**Request without SELECTOR TAG**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>EXTSYSENQREQ</TYPE>

<EXTNWCODE>***<Network External Code>***</EXTNWCODE>

<MSISDN >***<Retailer MSISDN>***</MSISDN >

<PIN>***<PIN>***</PIN>

<EXTCODE>***< Channel user unique External code>***</EXTCODE>

<EXTTXNNUMBER>**<Unique transaction number>**</EXTTXNNUMBER>

<EXTTXNDATE>**<DD/MM/YYYY>**</EXTTXNDATE>

<MSISDN2>Subscriber MSISDN</MSISDN2>

<SERVICETYPE>RC</SERVICETYPE>

<REMARKS>***<Any free text>***</REMARKS>

</COMMAND>

**Request with SELECTOR TAG**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>EXTSYSENQREQ</TYPE>

<EXTNWCODE>***<Network External Code>***</EXTNWCODE>

<MSISDN >***<Retailer MSISDN>***</MSISDN >

<PIN>***<PIN>***</PIN>

<EXTCODE>***< Channel user unique External code>***</EXTCODE>

<EXTTXNNUMBER>**<Unique transaction number>**</EXTTXNNUMBER>

<EXTTXNDATE>**<DD/MM/YYYY>**</EXTTXNDATE>

<MSISDN2>Subscriber MSISDN</MSISDN2>

<SERVICETYPE>RC</SERVICETYPE>

<SELECTOR><Selector></SELECTOR>

<REMARKS>***<Any free text>***</REMARKS>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request | EXTSYSENQREQ | C (15) | M |
| EXTNWCODE | Network code | Network code of the Operator User defined in PreTUPS as External Network code | MD | A (2) | M |
| MSISDN | Channel user MSISDN | All MSISDN should be in national dial format.  **Between MSISDN and EXTCODE one of them must be present, either MSISDN or EXTCODE. Both of them can be present in request** | 9942222 | N (15) | M |
| PIN | Pin of the user | Pin provided to channel user  **It will be used with the MSISDN only** | 1357 | N (4) | M |
| 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** | 123 | A (10) | M |
| EXTTXNNUMBER | Unique number of the transaction | Unique Transaction number of External System. Used by PreTUPS for reference only. | 1234 | A (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 |
| MSISDN2 | Subscriber MSISDN | All MSISDN should be in national dial format. | 9942222 | N (15) | M |
| SERVICETYPE | Requested Service | Unique Service keyword to identify the service through External gateway. It could be RC ,PPB etc | RC | C (10) | M |
| SELECTOR | <Selector> | Selector should be numeric  1 – CVG  2 – C  3 – VG  **Note:** Selector tag is not required if external system sends the request without selector. In this case system default selector will be used for the requested service type.  Tag is mandatory only if external system use request with selector tag. default selector will not be used. | 1 | A(10) | M |
| REMARKS | Remarks for the transaction | Remarks to be given for the transaction | External Enquiry | A (100) | O (Tag is mandatory) |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

# Response

PreTUPS send the acknowledgement to the External system about the Enquiry status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

# Response Syntax

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>EXTSYSENQRESP</TYPE>

<TXNSTATUS>***<Status of the Enquiry>***</TXNSTATUS>

<SLABAMT>Allowed amount for the service in slabs </SLABAMT>

<EXTTXNNUMBER>***<Unique transaction number of External system>*** </EXTTXNNUMBER>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | EXTSYSENQRSP | C (15) | M |
| TXNSTATUS | Transaction Status | Status of the External system Enquiry request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
|  |  |  |  |  |  |
| SLABAMT | Allowed Amount range for the requested service (in slabs if exist) | Allowed amount range for the requested service  If multiple slabs exist then multiple slabs would be shown and separated by comma | 10-10000  101-200,201-300 | A(50) | O |
| EXTTXNNUMBER | Unique id of the transaction in External transaction system | Unique Transaction number of External System. Used by PreTUPS for reference only.. | 1234345 | A (10) | M |

* The value for TYPE tag is fixed as mentioned in syntax.

## Channel User Balance Enquiry

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

# XML Request format

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>EXUSRBALREQ</TYPE>

<DATE><Date and time></DATE>

<EXTNWCODE><Network External Code></EXTNWCODE>

<MSISDN><Retailer MSISDN></MSISDN>

<PIN><Pin></PIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

<EXTCODE>< Channel user unique External code></EXTCODE>

<EXTREFNUM>

<Reference number of transaction request>

</EXTREFNUM>

<LANGUAGE1><Language Code></LANGUAGE1>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request - fixed | EXUSRBALREQ | A (20) | 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  (Tag is Optional) |
| 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  (Tag is -  Optional) |
| PIN | Channel user/Subscriber PIN | PIN of the user | 123 | A (10) | O |
| LOGINID | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O  (Tag is  Optional) |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O  (Tag is  Optional) |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O  (Tag is  Optional) |
| EXTREFNUM | External Reference number | Reference number of external system. | 12345 | A (20) | O  (Tag is  Optional) |
| <LANGUAGE1> | Language Code | Language Code | 1 | D(10) | O  (Tag is optional) |
| **Note:** Between MSISDN, LOGINID and EXTCODE one of them must be present, either MSISDN, LOGINID or EXTCODE. , If MSISDN is provided then PIN is mandatory All of them can also be present in request. | | | | | |

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

# XML Response format

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXUSRBALRESP</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<DATE><Date and time></DATE>

<EXTREFNUM>

<Reference number of transaction request>

</EXTREFNUM>

<RECORD>

<PRODUCTCODE><Product Code></PRODUCTCODE>

<PRODUCTSHORTNAME>

<Short code of product>

</PRODUCTSHORTNAME>

<BALANCE><Balance of product></BALANCE>

</RECORD>

</COMMAND>

# Field Details

| TAG | 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  (Tag is mandatory) |
|  |  |  |  |  |  |
| RECORD Tag 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 tags 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 |

## Change Pin

External system will send change pin request to PreTUPS in the following format:

# Request Syntax

The request format and details of request are mentioned below.

**Request Syntax**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>EXC2SCPNREQ</TYPE>

<DATE><Date and time></DATE>

<EXTNWCODE><Network External Code></EXTNWCODE>

<MSISDN><Retailer MSISDN></MSISDN>

<OLDPIN><Pin></OLDPIN>

< NEWPIN >< NEWPIN ></NEWPIN>

<CONFIRMPIN><CONFIRMPIN></CONFIRMPIN>

<LOGINID><Channel user Login ID></LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

< LANGUAGE1>< LANGUAGE1></LANGUAGE1>

<EXTREFNUM><Reference number of transaction request></EXTREFNUM>

<REMARKS><Enter Remarks></REMARKS>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request - fixed | EXC2SCPNREQ | A (20) | 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  (Tag is mandatory) |
| 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  (Tag is mandatory) |
| OLDPIN | Channel user/Subscriber PIN | PIN of the user | 123 | A (10) | M |
| New PIN | New PIN of Channel User | New PIN of the user | 351 | A(10) | M |
| CONFIRM PIN | Confirm PIN | Confirmation of New PIN | 351 | A(10) | M |
| LOGINID | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O  (Tag is mandatory) |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O  (Tag is mandatory) |
| LANGUAGE1 | <Retailer Language> | Numeric only, Retailer Language Code This code must be defined in PreTUPS system. | 0 | 1 | O (Tag is mandatory) |
| EXTREFNUM | External Reference number | Reference number of external system. | 12345 | A (20) | O  (Tag is mandatory) |
| REMARKS | Remarks to be Entered | This Tag can be Optional Or mandatory based On Preference |  | A(20) | M/O(Based On Preference) |
| **Note:** Between MSISDN, LOGINID and EXTCODE one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request. | | | | | |

# Response Syntax

PreTUPS send the response to the External system about the change Pin. The response will be in XML and send as response of the request.

The XML response details are mentioned below.

# Response Syntax

<? xml version="1.0"?>

<! DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>EXC2SCPNRESP</TYPE>

<TXNSTATUS>***<Status of the Enquiry>***</TXNSTATUS>

<MESSAGE> Pin has changed successfully </MESSAGE>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | EXC2SCPNRESP | C (15) | 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 |
| TXNSTATUS | Transaction Status | Status of the External system Enquiry request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| MESSAGE | Message regarding the Enquiry requested MSISDN |  | PRE / POST | C(15) | M |
| EXTTXNNUMBER | Unique id of the transaction in External transaction system | Unique Transaction number of External System. Used by PreTUPS for reference only.. | 1234345 | A (10) | M |

## Lend Me Balance

A subscriber can request the operator for balance without paying any amount at that particular time. Whenever the subscriber next performs a top up on his account the outstanding amount as well as the service charges will be deducted from the amount of the top up.

**Business Rules**

* The user should be a prepaid subscriber in the system and should not be a barred one either.
* The user will be allowed only one SOS transfer and he must top up his account in order to use the service again.
* Should the user fail to settle his account after a defined number of days; the operator will follow the following methods to settle:

1. Settle accounts by means of an offline settlement script.
2. Settle the accounts from the web my means of forced settlement.

* Customers should have below a threshold amount in their account in order to use the service.

The amount available as a threshold amount would be valid for a fixed number of days which is configurable by the operator user.

# Request Syntax

The External system will send the following request for suspend-resume of channel user. The request format and details of request are mentioned below.

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE> LMBREQ</TYPE>

<MSISDN1>7200008800</MSISDN1>

<AMOUNT>5</AMOUNT>

<LANGUAGE1>0</LANGUAGE1>

<LANGUAGE2>1</LANGUAGE2>

<CELLID>58555</CELLID>

<SWITCHID>78963</SWITCHID>

</COMMAND>

**Fields Detail**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request | LMBREQ | A (15) | M |
| MSISDN1 | Requestor MSISDN | Mobile number of the request initiator. | 776542445 | N (20) | M |
| AMOUNT | Amount requested | Amount requested by the subscriber | 90 | N (10) | M |
| LANGUAGE1 | Language code | Language | 0 | N (10) | M |
| LANGUAGE2 | Language code 2 | Language | 1 | N (15) | M |
| CELLID | Cell ID | Cell ID | 4355 | N(10) | M |

* All tags are mandatory to be present in XML. If value is optional then also tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

**Example of XML for LMB request**

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC"-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd"><COMMAND><TYPE>LMBREQ</TYPE><MSISDN1>7200008800</MSISDN1><AMOUNT>5</AMOUNT><LANGUAGE1>0</LANGUAGE1><LANGUAGE2>1</LANGUAGE2><CELLID>58555</CELLID><SWITCHID>78963</SWITCHID></COMMAND>

# Response Syntax

PreTUPS send the acknowledgement to the External system about the transaction status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>SRCUSRREQEX</TYPE>

<TXNSTATUS>***<Transaction Status>***</TXNSTATUS>

</COMMAND>

**Fields Detail**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | LMBRESP | C (15) | M |
| TXNSTATUS | Transaction Status | Status of the request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| NOTIFLANG | Notification language | The notification language selected | en | A(10) | O |

* The value for TYPE tag is fixed as mentioned in syntax.

**Example of XML for LMB response**

<?xml version="1.0"?><COMMAND><TYPE>LMBRESP</TYPE><TXNSTATUS>200</TXNSTATUS><NOTIFLANG></NOTIFLANG></COMMAND>

## LMB Online Debit

Now, pretups system will interact with IN and check for LMB outstanding amount on both IN and pretups, if the recharge amount requested is exactly equal to the LMB outstanding amount then only the settlement will be done.

Design for this feature can be broken into following sections:

1. The recharge request is initiated by a 3rd party and the LMB account settlement request is sent to IN from pretups.
2. The recharge request is initiated by a 3rd party and the LMB account is settled first at IN and then pretups system is intimated to settle at its end.

Business Rules:

* The request will come as a **plain message** string from 2 access bearers

1. SMSC
2. External Gateway

* The LMB outstanding amount at pretups should be exactly equal to the LMB outstanding amount at IN.
* The amount credited into the subscribers account should be equal to or greater than the outstanding LMB amount.

# Request Syntax

External Gateway will send the following request for LMB debit. The request format and details of request are mentioned below. This should be sent as data part of http request.

**Request Syntax:**

TYPE=LMBDBTREQ&MSISDN=<Subscriber-MSISDn>&LMB\_AMT=<LMB\_outstanding>&AMT\_CREDITED=<Top-up value>&MRP=<Amount requested>

**Field Details**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request Type | Request Type |  | C(10) | M |
| MSISDN | Subscriber MSISDN | Subscriber MSISDN |  | Numeric(10) | M |
| LMB\_AMT | LMB outstanding amount | LMB outstanding amount |  | Numeric(5) | M |
| AMT\_CREDITED | Amount to credited into user account | Amount to credited into user account |  | Numeric(5) | M |
| MRP | Amount requested | Amount requested |  | Numeric(15) | M |

* All tags are mandatory to be present in the request. If value is optional then also tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

**Example of Plain LMB request**

TYPE=LMBDBTREQ&MSISDN=7200122426&LMB\_AMT=2&AMT\_CREDITED=1000&MRP=1010

# Response Syntax

PreTUPS will send following response (acknowledgement) to External Gateway for LMB settlement request. The response details are mentioned below.

**Success:**

TYPE=LMBRESP&MSISDN=<subscriber MSISDN>&DATE-TIME=<date and time of request>&TXNID=<transaction ID>&TXNSTATUS=<Transaction\_Status>&DESCRIPTION=<Message>

**Failure:**

TYPE=LMBRESP&MSISDN=<subscriber MSISdn>&DATE-TIME=<date and time of request>&TXNID=<transaction ID>&ERROR\_CODE=<Transaction\_Status>&DESCRIPTION=<Message>

**Field Details**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request type |  | Varchar2(15) | M |
| MSISDN | Subscriber MSISDN | Subscriber MSISDN |  | Varchar2(15) | M |
| DATE-TIME | Date and time of request execution | Date and time of request execution |  | Varchar2(15) | M |
| TXNID | Transaction id | Transaction id |  | Varchar2(100) | M |
| Error Code | Error code (only if transaction status is not 200) | Error code (only if transaction status is not 200) |  | Varchar2(10) | M |
| Transaction status | Transaction status | Transaction status |  | Varchar2(10) | M |
| Description | Description | Description |  | Varchar2(100) | M |

* The value for TYPE tag is fixed as mentioned in syntax.

**Example of Plain LMB response (for success)**

TYPE=LMBDBTRESP&MSISDN=7200122426&DATE-TIME=10/01/13 13:15:16&TXNID=NGE1301101314100001&TXN\_STATUS=200&Description=Success

**Example of Plain LMB response (for failure)**

TYPE=LMBDBTRESP&MSISDN=7200122426&DATE-TIME=10/01/13 13:16:16&TXNID=&ERROR\_CODE=2002&Description=Your request cannot be processed at this time, please try again later.

## Add | Modify | Delete Schedule Credit Transfer List

The External system will send the following request for adding or modifying or deleting records from Dial A’s Scheduled Credit Transfer list in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE><PSCTAMREQ></TYPE>

<MSISDN><Initiating Subscriber MSISDN></MSISDN>

<PIN><Subscriber PIN></PIN>

<PROFILEID><Initiating Subscriber Service Class></PROFILEID>

<LISTNAME><Name of the List></LISTNAME>

<SCTYPE><Weekly or Monthly></SCTYPE>

<NOSC><Schedule number of execution></NOSC>

<LISTRECORDS>

<LISTRECORD>

<MSISDN1><MSISDN of receiving subscriber></MSISDN1>

<AMOUNT><Amount to be set for Credit Transfer></AMOUNT>

<PROFILEID1><Subscriber Service Class></PROFILEID>

<ACTION><Add or Modify or Delete></ACTION>

</LISTRECORD>

<LISTRECORD>

<MSISDN1><MSISDN of receiving subscriber></MSISDN1>

<AMOUNT><Amount to be set for Credit Transfer></AMOUNT>

<PROFILEID1><Subscriber Service Class></PROFILEID>

<ACTION><Add or Modify or Delete></ACTION>

</LISTRECORD>

</LISTRECORDS>

</COMMAND>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PSCTAMREQ | PSCTAMREQ | 10 | M | Request Type. Static & fixed value |
| MSISDN | Initiator subscriber mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Subscriber PIN as registered in PreTUPS | 3946 | 4 to 6 | O | Numeric Only. |
| PROFILEID | Service class **code** of the initiating P2P subscriber | M2131 | 20 | M | Alphanumeric, single word  The tag is mandatory, yet the value could be optional in case of a DELET Action |
| LISTNAME | Name of the subscriber’s list | JackList1 | 50 | M | Alphanumeric, single word |
| SCTYPE | Schedule Type – Based on this value, the automatic Credit transfer would be executed | WK | 4 | M | Allowed values:  **WK** = Weekly  **MO** = Monthly |
| NOSC | Number of recurring execution for the scheduled credit transfer. | 10 | 3 | M | **Tag is mandatory, yet if value is not specified, then Schedule credit transfer would be configured for infinite number of executions.**  **In case of DELETE action value is optional though tag would be mandatory** |
| **LISTRECORDS** | Records related to the subscriber list should come under this tag. It’s a mandatory tag. This tag should close at the end of the complete list details | | | | |
| **LISTRECORD** | Individual receiving subscriber details should come under this tag. This tag should be repeated against each receiving subscriber details. The closer of this tag would indicate the completeness of one receiving subscriber details. | | | | |
| MSISDN1 | MSISDN of the receiving subscriber | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| AMOUNT | Amount to be associated against the above subscriber for scheduled credit transfer | 10 | 4 | M | Numeric, The tag is mandatory, yet the value could be optional in case of a DELET Action |
| PROFILEID1 | Service class **code** of the receiving P2P subscriber | M2131 | 20 | M | Alphanumeric, single word  The tag is mandatory, yet the value could be optional in case of a DELET Action |
| ACTION | Action to be taken against the above specified MSISDN | A | 1 | M | A – Add  M – Modify  D – Delete |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* Und**er LISTRECORDS** tagcomplete details of the subscriber (Dial A) credit distribution list should be present
* **LISTRECORD** tag should be repeated with all individual receiving subscriber MSISDN details
* The maximum number of MSISDNs that Dial A can save in a particular list would be equal to the value as defined in its associated Service class preference - “***Daily Success Txn Allowed(P2P)***” in PreTUPS
  + A registered subscriber (Dials A) would be allowed to save maximum of **2** lists. One each for the Schedule Types (*Weekly & Monthly*).
  + Lists created under the same Dial A should have different list names (**LISTNAME**)
  + A MSISDN (Dial B) can be part of any or *N* number of saved lists
  + Duplicate MSISDN (Dial B) would not be allowed to be part of the same list
* The cumulative schedule value in a given list should not be more than the value as defined in Service class preference - “***Daily Max Transfer Amount****”* of Dial A
* Though Dial A’s Service class preference - “*Daily Success Txn Allowed(P2P*)” value would be validated during list creation, yet External system should make sure that in a single request the maximum number of **LISTRECORD** tags, should not be more than 30 at any given point of time.
* A schedule type would indicate the required duration for auto execution of scheduled credit transfer.
* Scheduled type should be specified under the **SCTYPE** tag. Allowed values are:
  + **WK** = Once in a **week** execution
  + **MO** = Once in a **month** execution
* For a saved list, the number of scheduled credit transfer that would be executed over regular defined intervals (*SCTYPE*) would depend on the value provided under the tag **NOSC**
  + If no value is provided under **NOSC,** then the list would be scheduled for infinite number of executions.
  + Number of execution count would include execution irrespective of the final execution status.
  + If **ACTION** tag contains value as M (*Modify*), then the number specified under **NOSC** tag should me more than the number of existing number of executions that has already happened against the saved list. Or the NOSC tag should contain no value, in-turn treating the expected number of schedules as infinite against the list.
* **ACTION** tag should either contain A for adding details or M for modifying existing details or D for deleting details.
* In **PROFILEID**, the service class code of Dial A (*sender / list owner*) as defined in PreTUPS needs to be specified by the External system.
* In **PROFILEID1,** service class code of Dial B (*receiver / list member*) as defined in PreTUPS needs to be specified by the External system.
* During list Creation/Addition and Modification, available **active** P2P transfer rules as defined in PreTUPS between Service class of Dial A (*sender / list owner*) & Service class of Dial B (*receiver / list member*) would be validated.
  + During list creation if active P2P transfer rules are/is not found, then the corresponding Dial B (*receiver MSISDN*) would not be saved in the list.
  + Only Amount associated with a MSISDN1 (Dial B), can be modified.
  + During modification, active P2P transfer rule between Dial A (*sender / list owner*) & Dial B (*receiver MSISDN*) whose associated amount is being modified would only be validated. In other words, during modification Dial A’s complete existing list would not be validated against active P2P transfer rules; rather validation would be only against the involved MSISDNs.
    - *Example: Dial A list contained 10 MSISDNs. As modification request, Dial A wants to update only 2 of the MSISDNs. In such case, only the Transfer rule existing between Dial A & the 2 MSISDNs would be validated.*
* During ‘Delete’ action, there is no need to specify the Amount or the Service class of sender & receiver, yet the tags **PROFILEID**, **AMOUNT** & **PROFILEID1** would be mandatory to be present as part of the request XML.
  + During deletion, P2P transfer rule validation would not be applicable.
* All tags are mandatory to be present in XML. If value is optional yet tag must be present.

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against add or modify or delete request of subscriber’s Scheduled credit transfer list:

<?xml version="1.0"?>

<COMMAND>

<TYPE><PSCTAMRESP></TYPE>

<LISTNAME><Name of the list></LISTNAME>

<SCTYPE><Weekly or Monthly></SCTYPE>

<SCDATE><Schedule date></SCDATE>

<NOSC><Number of executions scheduled></NOSC>

<LISTSTATUS><List Action Status></LISTSTATUS>

<FAILREC><Comma separated failed MSISDNs></FAILREC>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<COMMAND>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PSCTAMRESP | PSCTAMRESP | 10 | M | Response Type. Static & fixed value |
| LISTNAME | Name of the list as specified in the request & saved in PreTUPS | JackList1 | 50 | M | Alphanumeric, single word |
| SCTYPE | List schedule type as specified in request & saved in PreTUPS | WK | 4 | M | Allowed values:  **WK** = Weekly  **MO** = Monthly |
| SCDATE | Next schedule date in DDMMYY format | 210913 | 8 | M | Date in DDMMYY format on which the scheduled credit transfer would be executed |
| NOSC | Number of schedule as specified in request & saved in PreTUPS | 10 | 3 | M | Defined number of recurring execution of the scheduled credit transfer.  **If value is blank, then it means schedule execution is infinite** |
| LISTSTATUS | Status code denoting whether the intended action was performed successfully or not | SS | 2 | M | **SS** = Intended action **Completely successful**  **PS** = Intended action **Partially successful**  **FA** = Intended action **Completely Fail** |
| FAILREC | Comma separated MSISDNs against which record could not be updated/saved in PreTUPS for any reason  **Value would be available only in case LISTSTATUS=PS** | 5511991110, 4411991111 | 15 | M | All MSISDN would be without country code.  (National dial format)  **Though the tag is mandatory, yet value would NOT be available in case LISTSTATUS= SS or FA** |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* The value of **LISTSTATUS** tag could be SS, PS or FA
  + SS – When specified ACTION is completely successful
  + PS - When specified ACTION is partially successful
  + FA - When specified ACTION is completely fail
* If the value of **LISTSTATUS = PS**, then comma separated mobile numbers against which intended record could not be updated/stored for any reason in PreTUPS would be returned under the **FAILREC** tag
  + The FAILREC tag would not hold any values in case LISTSTATUS = SS or FA
* The initiator subscriber (*Dial A / List owner*) would receive a SMS notifying the successful/un-successful addition or modification or deletion of his/her Schedule Credit Transfer list.

## View Subscriber List

The External system will send the following request for viewing a subscriber’s scheduled credit transfer list. The request format and details of request are mentioned below.

# Request Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>PSCTVREQ</TYPE>

<MSISDN><Initiating Subscriber MSISDN></MSISDN>

<PIN><Subscriber PIN></PIN>

<LISTNAME><Name of the List></LISTNAME>

<SCTYPE><Weekly or Monthly></SCTYPE>

<COMMAND>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PSCTVREQ | PSCTVREQ | 10 | M | Request Type. Static & fixed value |
| MSISDN | Initiator subscriber mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Subscriber PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LISTNAME | Name of the subscriber’s list to be deleted | JackList1 | 50 | O (Tag is mandatory)  Mandatory in case SCTYPE is not provided | Alphanumeric, single word |
| SCTYPE | Associated Schedule Type | WK | 4 | O (Tag is mandatory)  Mandatory in case LISTNAME is not provided | Possible values:  **WK** = Weekly  **MO** = Monthly |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* Either **LISTNAME** or **SCTYPE** can be provided in the request. If values against both the tags are present, then both would be validated & both the values should refer the same list.

# Response Syntax

**When List exists**

<**COMMAND**>

<TYPE>PSCTVRESP</TYPE>

<LISTRECORDS>

<LISTNAME><Name of the List></LISTNAME>

<SCTYPE><Weekly or Monthly></SCTYPE>

<SCDATE><Schedule date></SCDATE>

<NOSC><Number of executions scheduled></NOSC>

<LISTRECORD>

<MSISDN1><MSISDN of receiving subscriber></MSISDN1>

<AMOUNT><Amount to be set for distribution></AMOUNT>

</LISTRECORD>

<LISTRECORD>

<MSISDN1><MSISDN of receiving subscriber></MSISDN1>

<AMOUNT><Amount to be set for distribution></AMOUNT>

</LISTRECORD>

</LISTRECORDS>

<TXNSTATUS><Transaction Status></TXNSTATUS>

</**COMMAND**>

**When List does not exists**

<**COMMAND**>

<TYPE>PSCTVRESP</TYPE>

<LISTRECORDS>

<LISTNAME><NA></LISTNAME>

<SCTYPE><NA></SCTYPE>

<SCDATE><NA></SCDATE>

<NOSC><NA></NOSC>

</LISTRECORDS>

<TXNSTATUS><Transaction Status></TXNSTATUS>

**</COMMAND>**

* In the above response, NA indicates Not Available

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PSCTVRESP | PSCTVRESP | 10 | M | Response Type. Static & fixed value |
| **LISTRECORDS** | All records related to the subscriber list would come under this tag. This tag will close at the end of the complete list details | | | | |
| LISTNAME | Name of the subscriber’s list | JackList1 | 50 | M | Alphanumeric, single word |
| SCTYPE | Associated Schedule Type | WK | 4 | M | Possible values:  **WK** = Weekly  **MO** = Monthly |
| SCDATE | Next schedule date in DDMMYY format | 210913 | 8 | M | Date in DDMMYY format on which the scheduled credit transfer would be executed |
| NOSC | Number of recurring execution for the scheduled credit transfer. | 10 | 3 | M |  |
| **LISTRECORD** | Individual records of subscriber details present in the list will come under this tag. This tag would be repeated against each subscriber details present in the list. The closer of this tag would indicate the completeness of one receiving subscriber details. This tag along with the below internal tag would not be present in response, if list is not available against the user | | | | |
| MSISDN1 | MSISDN of the receiving subscriber | 9942222 | 15 | M | All MSISDN would be without country code.  (National dial format) |
| AMOUNT | Amount associated against the above subscriber MSISDN for schedule credit transfer | 10 | 4 | M | Numeric |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* Under **LISTRECORDS** tag complete details of the subscriber schedule credit transfer list would be present
* **LISTRECORD** tag would be repeated with all individual receiving subscriber MSISDN details as present in the list
  + **This tag along with sub tags would not be available in request, if list does not exist against the user**
* There could be a maximum of 30 **LISTRECORD** tags, present under 1 **LISTREORDS** tag.
* This response API would not have the capability to provide the number of dials left to be added and the amount left to be added in the subscriber’s schedule credit transfer list.

## Delete Subscriber List – External System XML API

The External system will send the following request for deleting the complete subscriber’s scheduled credit transfer list in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

<?xml version="1.0"?>

<**COMMAND**>

<TYPE>PSCTDREQ</TYPE>

<MSISDN><Initiating Subscriber MSISDN></MSISDN>

<PIN><Subscriber PIN></PIN>

<LISTNAME><Name of the List></LISTNAME>

<**COMMAND**>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PSCTDREQ | PSCTDREQ | 10 | M | Request Type. Static & fixed value |
| MSISDN | Subscriber mobile number whose schedule credit transfer list needs to be deleted | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Subscriber PIN as registered in PreTUPS | 3946 | 4 | O | Numeric Only. |
| LISTNAME | Name of the subscriber’s schedule credit transfer list that needs to be deleted completely | JackList1 | 50 | M | Alphanumeric, single word |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* The complete list records would get deleted, i.e. no option for partial delete.

# Response Syntax

<?xml version="1.0"?>

<**COMMAND**>

<TYPE>PSCTDRESP</TYPE>

<LISTNAME><Name of the list that is deleted></LISTNAME>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<**COMMAND**>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PSCTDRESP | SCLDRESP | 10 | M | Response Type. Static & fixed value |
| LISTNAME | Name of the list that got deleted in PreTUPS | JackList1 | 50 | M | Alphanumeric, single word |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* The initiator subscriber (List owner) would receive a SMS notifying the successful/un-successful deletion of his/her distribution credit list.

## Last X Transaction Details

Through External system a Channel user can request to get details about his/her own last X transactions made in PreTUPS. The last X transaction could be O2C transfer and or C2C transfer and or C2S transfer.

* Upto last 3 days (starting from current date) transactions would be returned through this API.

The request format and details of request are mentioned below.

# Request Syntax

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**>EXLST3TRFREQ</**TYPE**>

<**DATE**>Date and time</**DATE**>

<**EXTNWCODE**>Network External Code</**EXTNWCODE**>

<**MSISDN**>Channel user MSISDN</**MSISDN**>

<**PIN**>Channel user PIN</**PIN**>

<**LOGINID**>Channel user Login ID</**LOGINID**>

<**PASSWORD**>Channel User Login Password</**PASSWORD**>

<**EXTCODE**>Channel user unique External code</**EXTCODE**>

<**EXTREFNUM**>

Reference number of transaction request</**EXTREFNUM**>

<**LANGUAGE1**>Retailer Language</**LANGUAGE1**>

</**COMMAND**>

Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request - fixed | EXLST3TRFREQ | A (20) | 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  (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | ET | A (2) | M |
| MSISDN | Channel user | All MSISDN should be in national dial format i.e. without country code. | 9942222 | N (15) | O (Tag is mandatory) |
| PIN | Channel user | PIN of the user  **Mandatory incase MSISDN is provided** | 1357 | A (10) | O (Tag is mandatory) |
| LOGINID | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O (Tag is mandatory) |
| PASSWORD | Password | Password of the Channel user  **Mandatory incase Login ID is provided** | 2468 | A (10) | O (Tag is mandatory) |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O (Tag is mandatory) |
| **Between MSISDN, LOGINID and EXTCODE value of one of them must be present. All of them can also be present in request.** | | | | | |
| EXTREFNUM | External Reference number | Reference number of External System. | 12345 | A (20) | O  (Tag is mandatory) |
| LANGUAGE1 | <Retailer Language> | Numeric only, Retailer Language Code This code must be defined in PreTUPS system. | 0 | 1 | M |

# Business Rules

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax
* If MSISDN value is available then user will be validated on the basis of the MSISDN and PIN
* If EXTCODE value is available then user will be validated on the basis of the EXTCODE
* If LOGINID tag value is available then user will be validated on the basis of the LOGINID and PASSWORD.
* If values of more than one tag is present then user will be validated depending on those values e.g. (MSISDN and EXT code both present in request then user will be validated on the basis of the both)
* If all the three are available then all will be validated. Between all of them any one would be mandatory.
* This type of request would not be treated as a transaction & hence request details would not be recorded in PreTUPS DB. Accordingly no reports or enquiries related to this kind of request would be available in PreTUPS. Yet request like this would have accountability on over all PreTUPS TPS.

# Response Syntax

PreTUPS will send the following response (acknowledgement) to External System for Last 5 Transaction request.

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**>EXLST3TRFRESP</**TYPE**>

<**REQSTATUS**>Status of Request</**REQSTATUS**>

<**DATE**>Date and time</**DATE**>

<**EXTREFNUM**>Reference number of transaction request</**EXTREFNUM**>

<**MESSAGE**>Message</**MESSAGE**>

<**TXNDETAILS**>

<**TXNDETAIL**>

<**TXNID**>Transaction ID</**TXNID**>

<**TXNDATETIME**>Transaction Date and Time</**TXNDATETIME**>

<**TRFTYPE**>Transfer Type</**TRFTYPE**>

<**TXNSTATUS**>Transaction Status of one of the last X transactions with transaction id</**TXNSTATUS**>

<**TXNAMOUNT**>Amount</**TXNAMOUNT**>

</**TXNDETAIL**>

<**TXNDETAIL**>

<**TXNID**>Transaction ID</**TXNID**>

<**TXNDATETIME**>Transaction Date and Time</**TXNDATETIME**>

<**TRFTYPE**>Transfer Type</**TRFTYPE**>

<**TXNSTATUS**>Transaction Status of one of the last X transactions with transaction ID</**TXNSTATUS**>

<**TXNAMOUNT**>Amount</**TXNAMOUNT**>

</**TXNDETAIL**>

<**TXNDETAIL**>

<**TXNID**>Transaction ID</**TXNID**>

<**TXNDATETIME**>Transaction Date and Time</**TXNDATETIME**>

<**TRFTYPE**>Transfer Type</**TRFTYPE**>

<**TXNSTATUS**>Transaction Status of one of the last X transactions with transaction id</**TXNSTATUS**>

<**TXNAMOUNT**>Amount</**TXNAMOUNT**>

</**TXNDETAIL**>

</**TXNDETAILS**>

</**COMMAND**>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | EXLST3TRFRESP | A (20) | M |
| REQSTATUS | Request 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  (Tag is mandatory) |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory) |
| **TXNDETAILS: Tag to identify all 5 transaction details** | | | | | |
| **TXNDETAIL: Tag to identify a single record.** | | | | | |
| TXNID | Transaction ID | Unique ID of last transaction made by user | C080521.1224.10001 | A(20) | O  (Tag is mandatory) |
| TXNDATETIME | Date and Time of transaction | Date and time of transaction. HH are in 24 Hour format | 12/05/08 12:30 | D(20) | O  (Tag is mandatory) |
| TRFTYPE | TYPE of Transaction | The transaction type could be C2S, C2C & or O2C | C2C | A(20) | O  (Tag is mandatory) |
| TXNSTATUS | Status of the Transaction | Status of Last transaction  200 – Success  206 – Fail  205 – Under process  250 – Ambiguous | 200 | N(10) | O  (Tag is mandatory) |
| TXNAMOUNT | Amount of Transaction | Amount of Transaction | 100 | N(10) | O  (Tag is mandatory) |

# Business Rules

* All tags are mandatory & would be present in XML response.
* The value of TYPE tag would be fixed as EXLST3TRFRESP.
* Last X transactions details would as per actual, irrespective of the type of transaction (O2C, C2C or C2S), status of the transaction (Success, Fail, Ambiguous or Under-process), request source (web, EXTGW, SMS/STK, USSD)

## Last Transaction Details

External system will send last transfer status request to PreTUPS for a subscriber.

* Last 3 days (starting from current date) transactions data would be queried.

# Request Syntax

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

**<?xml version="1.0"?>**

<**COMMAND**>

<**TYPE**>EXLSTTRFREQ</**TYPE**>

<**DATE**>Current Date & time</**DATE**>

<**EXTNWCODE**>External Network Code</**EXTNWCODE**>

<**MSISDN**>Primary MSISDN of the Channel user</**MSISDN**>

<**PIN**>PIN</**PIN**>

<**LOGINID**>Web login ID of the Channel user</**LOGINID**>

<**PASSWORD**>Web login password</**PASSWORD**>

<**EXTCODE**>Channel user unique External code</**EXTCODE**>

<**EXTREFNUM**>External reference number</**EXTREFNUM**>

<**LANGUAGE1**>Retailer Language</**LANGUAGE1**>

</**COMMAND**>

# Fields Detail

| TAG | | Fields | | Remarks | | Example | | Field Type | | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| TYPE | | Request type | | Request Type, should be sent with each request – **fixed value** | | EXUSRBALREQ | | A (20) | | M |
| DATE | | Date and time | | Date and time on which request was sent by external system, HH are in 24 Hour Format | | DD/MM/YYYY HH24:MI:SS | | D (20) | | O (Tag is mandatory) |
| EXTNWCODE | | Network code | | Network code of the Channel user defined in PreTUPS as External Network code | | AK | | A (2) | | M |
| MSISDN | | MSISDN | | Mobile number of the request initiator.  (Channel user) | | 9818101010 | | N(10) | | O (Tag is mandatory) |
| PIN | | MSISDN PIN | | PIN of the request initiator  **Mandatory in case MSISDN in provided** | | 1357 | | A(8) | | O (Tag is mandatory) |
| LOGINID | | Web Login ID | | Login ID of the request initiator (Channel user) | | btchadm | | A (20) | | O (Tag is mandatory) |
| PASSWORD | | Web Password | | Password of the Operator user  **Mandatory incase Login ID is provided** | | Asdgas46q8d@1 | | A (8) | | O (Tag is mandatory) |
| EXTCODE | | External code | | Channel user’s unique external code as configured in PreTUPS | | 334114 | | A (10) | | O (Tag is mandatory) |
| **Between MSISDN, LOGINID & EXTCODE value of one of them must be present. All of them can also be present in the request** | | | | | | | | | | |
| EXTREFNUM | External Reference number | | Unique Reference number in the external system against the request | | 12345 | | A (20) | | O (Tag is mandatory) | |
| LANGUAGE1 | <Retailer Language> | | Numeric only, Retailer Language Code This code must be defined in PreTUPS system. | | 0 | | 1 | | M | |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

# Response Syntax

PreTUPS send the acknowledgement to the External system about the transaction status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

**Response Syntax**

**<?xml version="1.0"?>**

**<COMMAND>**

**<TYPE>**EXLSTTRFRESP**</TYPE>**

**<REQSTATUS>**Status of Request**</REQSTATUS>**

**<DATE>**Date and time**</DATE>**

**<EXTREFNUM>**Reference number of transaction request**</EXTREFNUM>**

**<MESSAGE>**Message**</MESSAGE>**

**<TXNID>**TransactionID**</TXNID>**

**<TXNDATETIME>**TransactionDateandTime**</TXNDATETIME>**

**<TRFTYPE>**TransferType**</TRFTYPE>**

**<TXNSTATUS>**TransactionStatusoflasttransactions**</TXNSTATUS>**

**<RECORD>**

**<PRODUCTCODE>**Product code of the product**</PRODUCTCODE>**

**<PRODUCTSHORTNAME>**Short name of the product**</PRODUCTSHORTNAME>**

**<BALANCE>**Transfer amount**</BALANCE>**

**</RECORD>**

**</COMMAND>**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | EXLSTTRFRESP | A (20) | M |
| REQSTATUS | Status of request | Status of the Last Transaction Details  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 (Tag is mandatory) |
| MESSAGE | Response message | Response message against the Last Transaction Details request |  | A (250) | O |
| TXNID | Transaction ID | Unique ID of last transaction made by user | C080521.1224.10001 | A(20) | O  (Tag is mandatory) |
| TXNDATETIME | Date and Time of transaction | Date and time of transaction. HH are in 24 Hour format | 12/05/08 12:30 | D(20) | O  (Tag is mandatory) |
| TRFTYPE | TYPE of Transaction | The transaction type could be C2S, C2C & or O2C | C2C | A(20) | O  (Tag is mandatory) |
| TXNSTATUS | Status of the Transaction | Status of Last transaction  200 – Success  206 – Fail  205 – Under process  250 – Ambiguous | 200 | N(10) | O  (Tag is mandatory) |
| **RECORD Tag 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 tags 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 | Transfer amount | Transfer Amount | 100 | N(10) | O  (Tag is mandatory) |

* The Transaction status details explained in appendix.
* The value for TYPE tag is fixed as mentioned in syntax.

## ICCID MSISDN Mapping

Channel administrator user can send the request for mapping the details of an ICCID or MSISDN.

# XML Request Syntax

The External System will send the following request for ICCID-MSISDN mapping. The request format and details of request are mentioned below.

**Request Syntax**

<? Xml version="1.0"? >

<COMMAND>

<TYPE>**ICCIDMSISDNMAPREQ**</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE><Network External Code></EXTNWCODE>

<CATCODE><Category Code of the Operator user></CATCODE>

<EMPCODE><Employee Code of the Operator user></EMPCODE>

<LOGINID><Login ID of the Operator user></LOGINID>

<PASSWORD><Password of the Operator user></PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<DATA>

<ICCID><New ICCID uploaded in the PreTUPS System></ICCID>

<ICCIDCONFIRM><Confirm new ICCID uploaded in the PreTUPS System></ICCIDCONFIRM>

<MSISDN><MSISDN uploaded in the PreTUPS System></MSISDN>

</DATA>

</COMMAND>

**Fields Detail**

| TAG | | Fields | Remarks | | Example | | | Filed Type | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | | | | | | |
| TYPE | | Request type | Request Type, should be sent with each request - fixed | | EXTCNGPWDREQ | | | A (20) | M | |
| DATE | | Date and time | Date and time on which request generated by external system, HH are in 24 Hour Format | | DD-MM-YYYY HH:MM:SS | | | D (20) | O | |
| EXTNWCODE | | Network code | Network code of the Operator User defined in PreTUPS as External Network code | | MO | | | A (2) | M | |
| CATCODE | | Category Code | Category Code of the operator | | AP | | | A (2) | O | |
| EMPCODE | | Employee code | Employee code of the operator user. | | 123 | | | A (10) | M | |
| LOGINID | | Login ID | Login ID of the Operator user | | btchadm | | | A (20) | M | |
| PASSWORD | | Password | Password of the Operator user | | 2468 | | | A (8) |
| **Note:** Between EMPCODE and LOGINID value of one of them must be present. All of them can also be present in the request. | | | | | | | | | | |
| EXTREFNUM | | External Reference number | Unique Reference number in the external system. | | 12345 | | | A (20) | O | |
| **DATA –Data sub tags will be considered as main request tags** | | | | | | | | | | |
| MSISDN | | Channel user MSISDN | All MSISDN should be in national dial format i.e. without country code. | | 9942222 | | | N (15) | M | |
| ICCID | New ICCID | | | New ICCID of the channel user that exists into system. | | 1234 | A (10) | | | M |
| ICCIDCONFIRM | Confirm ICCID | | | Confirm ICCID of the channel user that exists into system. | | 1234 | A (10) | | | M |

* Between EMPCODE & LOGINID value of one of them must be present, i.e. EMPCODE or LOGINID.
* If all the 3 details (EXTNWCODE, EMPCODE, & LOGINID) are provided, then values as provided under LOGINID would be treated as valid & accordingly processed.

# XML Response Syntax

PreTUPS system sends the acknowledgement to the External system about the ICCID MSISDN mapping. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

**Response Syntax**

<?xml version="1.0"?>

<COMMAND>

<TYPE>**ICCIDMSISDNMAPRESP**</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<ERRORKEY><Error key></ERRORKEY>

<DATE><Date and time ></DATE>

<EXTREFNUM><Unique Reference number in the external system></ EXTREFNUM>

</COMMAND>

**Fields Detail**

| TAG | | Fields | Remarks | | Example | | Filed Type | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | | | | | | |
| TYPE | Response type | | | Response Type, should be sent with each request - fixed | | UPLOADMNPFILERESP | A (20) | | 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 | |
| ERROR\_KEY | Error key | | | If any error | | 218 | A(10) | | O | |
| DATE | Date and time | | | Date and time on which request generated by external system, HH are in 24 Hour Format | | DD-MM-YYYY HH:MM:SS | D (20) | | M | |
| EXTREFNUM | External reference code | | | External reference code | |  | A (2) | | M | |

# Business Rules

* Type tag will identify the type of Enquiry request.
* If Customer care user sends the request by both ie ICCID and MSISDN then we will validate ICCID with MSISDN and then if validation passes respective data will be send as response or an error xml will be send.
* Based on either of the value provided info will be loaded

**Fields Detail**

| TAG | Field | Remarks | Example | Field Type | | Optional / Mandatory |
| --- | --- | --- | --- | --- | --- | --- |
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**Fields Detail**

| TAG | Field | Remarks | Example | Field Type | Optional / Mandatory |
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## Set Notification Language

External System can send the Set Notification Language request to PreTUPS for a channel user in the below specified format.

# Request Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>RCNLANGREQ</TYPE>

<EXTNWCODE><External network code></EXTNWCODE>

<MSISDN1><Retailer MSISDN></MSISDN1>

<PIN><Retailer PIN></PIN>

<LANGUAGE1><Language></LANGUAGE1>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | RCNLANGREQ | RCNLANGREQ | 10 | M | Request Type |
| <EXTNWCODE> | External network code | NG | 2 | M |  |
| MSISDN1 | Retailer MSISDN | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format.) |
| PIN | Retailer PIN | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | LANG | 1 | 1 | M | Language Code  This code must be defined in PreTUPS system  Numeric Only |

* All tags are mandatory to be present in XML. If value is optional yet tag must be present.

# Response Syntax

PreTUPS will send following response (acknowledgement) to USSD System for Set Notification Language Request. The XML response details are mentioned below.

<?xml version="1.0"?>

<COMMAND>

<TYPE>RCLANGRESP</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | RCLANGRESP | RCLANGRESP | 10 | M | Resapons Type |
| TXNSTATUS | Transaction Status | 200 | 5 | M | Final Transaction Status i.e.  Transaction OK (200) failed other status |

* The value for TYPE tag is fixed as mentioned in syntax.
* The final notification would be pushed through SMS to the requester of the notification language change request.

## User Creation XML API

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

# Request Syntax

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**>< ><USERADDREQ></**TYPE**>

<**DATE**><Current Date & time></**DATE**>

<**EXTNWCODE**><External Network Code></**EXTNWCODE**>

<**EMPCODE**><Employee Code of the creator></**EMPCODE**>

<**LOGINID**><Web login ID of the creator></**LOGINID**>

<**PASSWORD**><Web login password of the creator></**PASSWORD**>

<**MSISDN**><Primary MSISDN of the creator></**MSISDN**>

<**PIN**><PIN of the creator></**PIN**>

<**EXTREFNUM**><External reference number></**EXTREFNUM**>

<**DATA**>

<GEOGRAPHYCODE>><User geography code of the new channel user></GEOGRAPHYCODE>

<**PARENTMSISDN**><Parent MSISDN></**PARENTMSISDN**>

<**PARENTEXTERNALCODE**><Parent external code of the channel user> </**PARENTEXTERNALCODE**>

<**USERCATCODE**><User category code of the new operator or channel user></**USERCATCODE**>

<**USERNAME**><User name of the new operator or channel user></**USERNAME**>

<**SHORTNAME**><Short name of the new operator or channel user></**SHORTNAME**>

<**USERNAMEPREFIX**><user name prefix of the new operator or channel user></**USERNAMEPREFIX**>

<**SUBSCRIBERCODE**><Subscriber code of the new operator or channel user></**SUBSCRIBERCODE**>

<**EXTERNALCODE**><External code of the new operator or channel user></**EXTERNALCODE**>

<**CONTACTPERSON**><Contact person name of the new operator or channel user></**CONTACTPERSON**>

<**CONTACTNUMBER**><Contact phone number of the new operator or channel user></**CONTACTNUMBER**>

<**SSN**><SSN of the new operator or channel user></**SSN**>

<**ADDRESS1**><Address line 1 of the new operator or channel user></**ADDRESS1**>

<**ADDRESS2**><Address line 2 of the new operator or channel user></**ADDRESS2**>

<**CITY**><City name of the new operator or channel user></**CITY**>

<**STATE**><State name of the new operator or channel user></**STATE**>

<**COUNTRY**><Country name of the new operator or channel user></**COUNTRY**>

<**EMAILID**><email id of the new operator or channel user></**EMAILID**>

<**WEBLOGINID**><web login id of the new operator or channel user></**WEBLOGINID**>

<**WEBPASSWORD**><web Password of the new operator or channel user></**WEBPASSWORD**>

<**MSISDNS**>

<**MSISDN1**><User Primary Transaction Mobile Number1></**MSISDN1**>

<**MSISDN2**><User other Transaction Mobile Number 2></**MSISDN2**>

<**MSISDN3**><User other Transaction Mobile Number 3></**MSISDN3**>

<**/MSISDNS**>

<**/DATA**>

<**/COMMAND**>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – **fixed value** | **USERADDREQ** | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel user defined in PreTUPS as External Network code | AK | A (2) | M |
| EMPCODE | Employee code | Employee code of the request initiator.  **Applicable only if the initiator is an Operator user** | 1234 | N(10) | O (Tag is mandatory) |
| LOGINID | Login ID | Login ID of the request initiator. | btchadm | A (20) | O (Tag is mandatory) |
| PASSWORD | Password | Password of the request initiator.  Mandatory if login ID is specified | Passw0rd | A (20) | O (Tag is mandatory) |
| MSISDN | MSISDN | Mobile number of the request initiator.  **Not applicable if the initiator is an Operator user** | 9818101010 | N(10) | O (Tag is mandatory) |
| PIN | PIN | PIN of the request initiator.  **Mandatory if MSISDN is specified** | 1357 | A(8) | O (Tag is mandatory) |
| **Between EMPCODE, 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 (Tag is mandatory) |
| **DATA – Details of the Operator user or Channel user, which needs to be created, should be under this tag** | | | | | |
| PARENTMSISDN | Parent Login ID | Login Id 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** | Dist1 | A (10) | O (Tag is mandatory) |
| PARENTEXTERNALCODE | 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 (Tag is mandatory) |
| **For Channel user creation request, between PARENTMSISDN and 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 (Tag is mandatory) |
| 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 (Tag is mandatory) |
| USERNAMEPREFIX | User name prefix | User name prefix of the new operator or channel user | M/S , Mr, Miss, Mrs | A (10) | M |
| SUBSCRIBERCODE |  | Code of the new operator or channel user | AD001 | A (12) | O (Tag is mandatory) |
| EXTERNALCODE | External code | EXTERNAL code of the new operator or channel user. Should be unique value. | AD100001 | A (12) | O (Tag is mandatory) |
| DIVISION | Division of the Operator user | Division short code of the new Operator user | IT |  | M (Only in case of Operator user creation) |
| DEPARTMENT | Department of the Operator user | Department short code of the new Operator user | Admin |  | M (Only in case of Operator user creation) |
| CONTACTPERSON | Contact person | Name of the contact person | David | A (80) | O (Tag is mandatory) |
| CONTACTNUMBER | Contact number | Phone number of the contact person | 9811098110 | N(15) | O (Tag is mandatory) |
| SSN | Social Security number | Social Security number of the contact person | 123456 | A (15) | O (Tag is mandatory) |
| ADDRESS1 | Address1 | Address line 1 of the new channel user | Address line 1 | A (50) | O (Tag is mandatory) |
| ADDRESS2 | Address2 | Address line 2 of the new operator or channel user | Address line 2 | A (50) | O (Tag is mandatory) |
| CITY | City | City of the new operator or channel user | Delhi | A (30) | O (Tag is mandatory) |
| STATE | State | State of the new operator or channel user | New Delhi | A (30) | O (Tag is mandatory) |
| COUNTRY | Country | Country of the new operator or channel user | India | A (20) | O (Tag is mandatory) |
| EMAILID | E-mail id | E-mail id of the new channel user | david@email.com | A (60) | O (Tag is mandatory) |
| 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 (Tag is mandatory) |
| **MSISDNs – Channel user Transaction MSISDN details. In-case of Operator user, value of MSISDN1 only needs to be provided** | | | | | |
| MSISDN1 | 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 (Tag is mandatory) |
| 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 (Tag is mandatory) |

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

# Business Rules

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.
* 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 tag is mandatory for creation of Operator or Channel user.
* MSISDN2, MSISDN3 are optional tags & 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 XML, 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 XML. **Parent info should also be left blank in-case of Operator user creation**
* The default group roll 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:

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**>< USERADDRESP ></**TYPE**>

<**USERID**><PreTUPS internal User ID></**USERID**>

<**EXTERNALCODE**><External code of the new operator or channel user></**EXTERNALCODE**>

<**MSISDN**><Primary MSISDN of the new operator or Channel user></**MSISDN**>

<**TXNSTATUS**><Transaction Status></**TXNSTATUS**>

<**MESSAGE**><Error or success Message></**MESSAGE**>

</**COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type – **Fixed value** | USRREGRESP | A (20) | M |
| USERID | PreTUPS user ID | PreTUPS internal User ID generated during user registration | SADL0000000034 | A (15) | M |
| EXTERNALCODE | External code | EXTERNAL code of the operator or channel user registered | AD100001 | A (10) | M |
|  |  |  |  |  |  |
| MSISDN | 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 |

* The value of TYPE tag 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

## User Modification XML API

Using this API, external system would be able to send Channel user’s modification request to Easy load.

# Request Syntax

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**> USERMODREQ </**TYPE**>

<**DATE**><Current Date & Time></**DATE**>

<**EXTNWCODE**><External Network Code></**EXTNWCODE**>

<**EMPCODE**><Employee Code></**EMPCODE**>

<**LOGINID**><Web login ID></**LOGINID**>

<**PASSWORD**><Web login password></**PASSWORD**>

<**MSISDN**><Primary MSISDN></**MSISDN**>

<**PIN**><PIN></**PIN**>

<**EXTREFNUM**><External reference number></**EXTREFNUM**>

<**DATA**>

<**USERMSISDN**><User’s primary MSISDN></**USERMSISDN**>

<**EXTERNALCODE**><External code of the channel user></**EXTERNALCODE**>

<**NEWEXTERNALCODE**><New External code of the channel user></**NEWEXTERNALCODE**>

<**USERNAME**><user name of the channel user></**USERNAME**>

<**SHORTNAME**><Short name of the channel user></**SHORTNAME**>

<**USERNAMEPREFIX**><user name prefix of the channel user></**USERNAMEPREFIX**>

<**SUBSCRIBERCODE**><Subscriber code of the channel user></**SUBSCRIBERCODE**>

<**CONTACTPERSON**><Contact person name of the channel user></**CONTACTPERSON**>

<**CONTACTNUMBER**><Contact phone number of the channel user></**CONTACTNUMBER**>

<**SSN**><SSN of the channel user></**SSN**>

<**ADDRESS1**><Address line 1 of the channel user></**ADDRESS1**>

<**ADDRESS2**><Address line 2 of the channel user></**ADDRESS2**>

<**CITY**><City name of the channel user></**CITY**>

<**STATE**><State name of the channel user></**STATE**>

<**COUNTRY**><Country name of the channel user></**COUNTRY**>

<**EMAILID**><email id of the channel user></**EMAILID**>

<**WEBLOGINID**><web login id of the channel user></**WEBLOGINID**>

<**WEBPASSWORD**><web Password of the channel user></**WEBPASSWORD**>

<**MSISDNS**>

<**MSISDN1**><User Primary Transaction Mobile Number1></**MSISDN1**>

<**MSISDN2**><User other Transaction Mobile Number 2></**MSISDN2**>

<**MSISDN3**><User other Transaction Mobile Number 3></**MSISDN3**>

</**MSISDNS**>

</**DATA**>

</**COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – **fixed value** | **USRMODREQ** | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel user defined in PreTUPS as External Network code | AK | A (2) | M |
| EMPCODE | Employee code | Employee code of the request initiator.  **Applicable only if the initiator is an Operator user** | 1234 | N(10) | O (Tag is mandatory) |
| LOGINID | Login ID | Login ID of the request initiator. | Btchadm | A (20) | O (Tag is mandatory) |
| PASSWORD | Password | Password of the request initiator.  **Mandatory if login ID is specified** | Passw0rd | A (20) | O (Tag is mandatory) |
| MSISDN | MSISDN | Mobile number of the request initiator.  **Not applicable if the initiator is an Operator user** | 9818101010 | N(10) | O (Tag is mandatory) |
| PIN | PIN | PIN of the request initiator.  **Mandatory if MSISDN is specified** | 1357 | A(8) | O (Tag is mandatory) |
| **Between EMPCODE, 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) | O (Tag is mandatory) |
| **DATA – Details of the Channel user which needs to be modified, should be under this tag** | | | | | |
| USERMSISDN | MSISDN of the operator or Channel user | MSISDN of the Channel user who needs to be modified | 9818123456 | A (10) | M (in-case of Channel user) |
| USRLOGINID | Login ID of the operator or Channel user | MSISDN of the Channel user who needs to be modified | btchadm | A (10) | M (In-case of Operator user) |
| EXTERNALCODE | Existing external code of the Channel user | Existing external code of the Channel user who needs to be modified | AD100011 | A(12) | O (Tag is mandatory) |
| **Between USERMSISDN, USRLOGINID** **& EXTERNALCODE one of them must be present** | | | | | |
| NEWEXTERNALCODE | New External code | New external code of the channel user. Should be unique value.  PreTUPS would not validate the uniqueness of external code | AD100001 | A (12) | O (Tag is mandatory) |
| USERNAME | User name | User name of the Operator or channel user | Alpha Dealer | A (80) | M |
| SHORTNAME | Short name | Short name of the channel user | AD | A (15) | O (Tag is mandatory) |
| USERNAMEPREFIX | User name prefix | User name prefix of the channel user | M/S , Mr, Miss, Mrs | A (10) | M |
| SUBSCRIBERCODE |  | Code of the channel user | AD001 | A (12) | O (Tag is mandatory) |
| CONTACTPERSON | Contact person | Name of the contact person | David | A (80) | O (Tag is mandatory) |
| CONTACTNUMBER | Contact number | Phone number of the contact person | 9811098110 | N(15) | O (Tag is mandatory) |
| SSN | Social Security number | Social Security number of the contact person | 123456 | A (15) | O (Tag is mandatory) |
| ADDRESS1 | Address1 | Address line 1 of the channel user | Address line 1 | A (50) | O (Tag is mandatory) |
| ADDRESS2 | Address2 | Address line 2 of the channel user | Address line 2 | A (50) | O (Tag is mandatory) |
| CITY | City | City of the channel user | Delhi | A (30) | O (Tag is mandatory) |
| STATE | State | State of the channel user | New Delhi | A (30) | O (Tag is mandatory) |
| COUNTRY | Country | Country of the channel user | India | A (20) | O (Tag is mandatory) |
| EMAILID | E-mail id | E-mail id of the channel user | david@email.com | A (60) | O (Tag is mandatory) |
| WEBLOGINID | Login ID | Web login id of the channel user.  **Not applicable for category, which does not have web access.**  **In case it’s blank in the request, previous will be set as new.** | Dealer1 | A (20) | O (Tag is mandatory) |
| WEBPASSWORD | Password | Password of channel user | 1357 | A(10) | O |
| **MSISDNs – Channel user Transaction MSISDN details.** | | | | | |
| MSISDN1 | Users Primary MSISDN | User Primary Transaction Mobile Number1  **In case it’s blank in the request, previous will be set as new.** | 9910321500 | N(10) | O (Tag is mandatory) |
| 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 modification** | 9910321501 | N(10) | O (Tag is mandatory) |
| MSISDN3 | Users Other MSISDN | User other Transaction Mobile Number3  **Applicable only if multiple mobile number is allowed for the Category** | 9910321502 | N(10) | O (Tag is mandatory) |

# Business Rules

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.
* In case of non receiving of mandatory field(s), request will be rejected with appropriate error code.
* The request data will be treated as the final, i.e. if address1 is defined previously but in user modification request its value is not present, then the user will be updated with the blank address1 after the modification.
* MSISDN1 tag is mandatory, MSISDN2, MSISDN3 are optional tags & would depend on the number of MSISDNs allowed for the category.
* If any MSISDN(s) is changed, then system defined default PIN will get assigned to new MSISDNs, else associated PIN would remain unchanged.
* If web login ID is changed, then system defined default web password will get assigned to new login id, else associated web password against the web login ID would remain unchanged.
* All other business rules as currently applicable for Channel user modification remain same.

# Response Syntax

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

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**>< USERMODRESP ></**TYPE**>

<**USERID**><PreTUPS internal User ID></**USERID**>

<**EXTERNALCODE**><External code of the Operator or channel user></**EXTERNALCODE**>

<**TXNSTATUS**><Transaction Status></**TXNSTATUS**>

<**MESSAGE**><Error or success Message></**MESSAGE**>

</**COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type – **Fixed value** | USRMODRESP | A (20) | M |
| USERID | PreTUPS user ID | PreTUPS internal User ID of the modified user | SADL0000000034 | A (15) | M |
| EXTERNALCODE | External code | EXTERNAL code of the channel user modified | AD100001 | A (10) | M |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TXNSTATUS | Transaction Status | Status of the User modification request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| MESSAGE | Response message | Response message against user modification request | Message test | A (250) | O |

* The value of TYPE tag is fixed, as mentioned above
* Notification related to user modification, remains same as currently applicable

## Associate | De-associate Group Role to User XML API

Using this API, external system would be able to associate or update or delete web based group roles to an Operator or Channel user of the Easy load system.

* This API would be applicable for association/de-association of group roles only & not system roles.

# Request Syntax

**<?xml version="1.0"?>**

<**COMMAND**>

<**TYPE**><USRGRAREQ></**TYPE**>

<**DATE**><Current Date & time></**DATE**>

<**EXTNWCODE**><External Network Code></**EXTNWCODE**>

<**EMPCODE**><Employee Code></**EMPCODE**>

<**LOGINID**><Web login ID of the requestor></**LOGINID**>

<**PASSWORD**><Web login password of the requestor></**PASSWORD**>

<**MSISDN**><Primary MSISDN of the requestor></**MSISDN**>

<**PIN**><PIN of the requestor></**PIN**>

<**EXTREFNUM**><External reference number></**EXTREFNUM**>

<**DATA**>

<**UMSISDN**><User MSISDN></**UMSISDN**>

<**ULOGINID**><User Login ID></**ULOGINID**>

<**UEXTCODE**><User External code></**UEXTCODE**>

<**GROLCODE**><Group role code></**GROLCODE**>

<**ACTION**><U or D></**ACTION**>

</**DATA**>

</**COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type – **Fixed value** | USRGRAREQ | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Operator or Channel user defined in PreTUPS as External Network code | AK | A (2) | M |
| EMPCODE | Employee code | Employee code of the request initiator.  **Applicable only if the initiator is an Operator user** | 1234 | N(10) | O (Tag is mandatory) |
| LOGINID | Web Login ID | Login ID of the requestor user | Btchadm | A (20) | O (Tag is mandatory) |
| PASSWORD | Web Password | Password of the requestor user  **Mandatory incase Login ID is provided** | dist@12 | A (8) | O (Tag is mandatory) |
| MSISDN | MSISDN | Mobile number of the request initiator. | 9818101010 | N(10) | O (Tag is mandatory) |
| PIN | MSISDN PIN | PIN of the request initiator  **Mandatory in case MSISDN in provided** | 1357 | A(8) | O (Tag is mandatory) |
| **Between EMPCODE, MSISDN and LOGINID value of one of them must be present. All of them can also be present in the request. In-case the requestor is Operator user, EMPCODE or LOGINID has to be provided.** | | | | | |
| EXTREFNUM | External Reference number | Unique Reference number in the external system. | 12345 | A (20) | O (Tag is mandatory) |
| **DATA – Details of the Operator or Channel user to whom group role needs to be associated** | | | | | |
| UMSISDN | Channel user MSISDN | All MSISDN should be in national dial format i.e. without country code.  **Not applicable for request against Operator user** | 9942222 | N (15) | O (Tag is mandatory) |
| ULOGINID | Login id of the Operator or Channel user | Unique LoginID of the Operator or Channel user defined in the PreTUPS system.  **This is mandatory to specify in-case request is for an Operator user** | Mo\_ws1 | A (20) | O (Tag is mandatory) |
| UEXTCODE | External code | EXTERNAL code of the channel user as defined in PreTUPS.  **Not applicable for request against Operator user** | AD100001 | A (12) | O (Tag is mandatory) |
| **Between UMSISDN, ULOGINID & UEXTCODE, value of one of them must be present. All of them can also be present in the request in-case of request against a Channel user.**  **In-case of request against an Operator user, only value provided under tag ULOGINID would be considered.** | | | | | |
| GROLCODE | Group role code | Code of the group role, which needs to be associated with the Channel user | DISTBAS | A (10) | M |
| ACTION | Value in this tag would determine whether the group roles needs to be added or updated or removed from the Operator or Channel user | For **Associate or Update** value should be **U**  For **De-associate** value should be **D**  **Either A or U or D needs to be sent in the request** | A | A (1) | M |

# Business Rules

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax
* If no value is provided under the tag GROLCODE, then the request would not be treated as valid & there would not be any update on the corresponding user’s current existing group role
* To associate a user with Group role or update the group role currently associated with the Operator or Channel user, the value of the ACTION tag should be U
* To remove associated group role from the Operator or Channel user, value of the ACTION tag should be D & the passed group role code, should be the one that is currently associated with the user. In other words, existing associated group role code has to be passed in the request if the same needs to be de-associated
* The group role as sent in the request should be valid & exist for the corresponding Operator or Channel user’s category
* All business rules related to Group role management remains same as existing
* List of available Group role codes along with corresponding Categories would be provided by Comviva during deployment. Post that Operator on their own, has to explicitly maintain this group role code – category mapping list offline.
* In other words, PreTUPS would not be responsible to provide group role code & category mapping to Operator from time to time

# Response Syntax

PreTUPS will send following response (acknowledgement) to the External System against association/de-association of Operator or Channel user’s group role request:

<?xml version="1.0"?>

<**COMMAND**>

<**TYPE**><USRGRARESP></**TYPE**>

<**MSISDN**><MSISDN of the Channel user></**MSISDN**>

<**LOGINID**><Login ID of the Operator or Channel user></**LOGINID**>

**<GROLCODE><**Group role code>**</GROLCODE>**

**<ACTION><**U or D>**</ACTION>**

<**TXNSTATUS**><Transaction Status></**TXNSTATUS**>

<**MESSAGE**><Error or success Message></**MESSAGE**>

</**COMMAND**>

Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type – **Fixed value** | USRGRARESP | A (20) | M |
| MSISDN | MSISDN of the Channel user, as per the request | MSISDN of the Channel user whose group role has been associated or de-associated  **Not applicable in-case of response against Operator user’s action** | 9942222 | N (15) | M (Value would not available in-case of Operator user) |
| LOGINID | Login ID of the Operator user | Login ID of the Operator user whose group role has been associated or de-associated  **Not applicable in-case of response against Channel user’s action** | Mo\_ws1 | A (20) | M (Value would not available in-case of Channel user) |
| GROLCODE | Group role code, as passed in the request | Code of the group role, which got associated or de-associated with the Operator or Channel user | DISTBAS | A (10) | M |
| ACTION | This value would denote what action has been taken against the group role, as per the request | U would denote Associate or update  D would denote De-associate | U | A (1) | M |
| TXNSTATUS | Transaction Status | Status of the request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
| MESSAGE | Response message | Response message against request | Message test | A (250) | O |

* The value of TYPE tag is fixed, as mentioned above
* Notification related to group role change, remains same as currently applicable, in other words, no SMS notification would be pushed in case of group role association or de-association

## MNP (Porting IN/OUT)

External system may use this API to send the request for MSISDN porting IN or OUT in the system.

# Request Syntax

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

**Request Syntax**

<?xml version="1.0"?>

<COMMAND>

<TYPE>**UPLOADMNPFILEREQ**</TYPE>

<DATE><Date and time ></DATE>

<EXTNWCODE><Network External Code></EXTNWCODE>

<CATCODE><Category Code of the Operator user></CATCODE>

<EMPCODE><Employee Code of the Operator user></EMPCODE>

<LOGINID><Login ID of the Operator user></LOGINID>

<PASSWORD><Password of the Operator user></PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<DATA>

<MSISDN><MSISDN></ MSISDN>

<SUBSTYPE><PRE/POST></SUBSTYPE>

<PORTTYPE><IN/OUT></PORTTYPE>

</DATA>

</COMMAND>

**Fields Detail**

| TAG | | Fields | | | Remarks | Example | | | Filed Type | Optional/  Mandatory | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | | | | | | | | |
| TYPE | | Request type | Request Type, should be sent with each request - fixed | | | UPLOADMNPFILEREQ | | | A (20) | | M | |
| DATE | | Date and time | Date and time on which request generated by external system, HH are in 24 Hour Format | | | DD-MM-YYYY HH:MM:SS | | | D (20) | | O | |
| EXTNWCODE | | Network code | Network code of the Operator User defined in PreTUPS as External Network code | | | MO | | | A (2) | | M | |
| CATCODE | | Category Code | Category Code of the operator | | | AP | | | A (2) | | O | |
| EMPCODE | | Employee code | Employee code of the operator user. | | | 123 | | | A (10) | | M | |
| LOGINID | | Login ID | Login ID of the Operator user | | | btchadm | | | A (20) | | M | |
| PASSWORD | | Password | Password of the Operator user | | | 2468 | | | A (8) | |
| **Note:** Between EMPCODE and LOGINID value of one of them must be present. All of them can also be present in the request. | | | | | | | | | | | | |
| EXTREFNUM | | External Reference number | Unique Reference number in the external system. | | | 12345 | | | A (20) | | O | |
| **DATA –Data sub tags will be considered as main request tags** | | | | | | | | | | | | |
| MSISDN | | Channel user MSISDN | All MSISDN should be in national dial format i.e. without country code. | | | 9942222 | | | N (15) | | M | |
| SUBSTYPE | | Substype of the channel user | Subscriber type of the channel user defined in the PreTUPS system. | | | PRE/POST | | | A (20) | | M | |
| PORTTYPE | Action | | | Action of role . | | | IN/OUT | A (10) | | | | M |

* Between EXTCODE, MSISDN & LOGINID value of one of them must be present, i.e. MSISDN or LOGINID or EXTCODE.
* If all the 3 details (EXTCODE, MSISDN, & LOGINID) are provided, then values as provided under MSISDN would be treated as valid & accordingly processed.

# Response Syntax

PreTUPS system sends the acknowledgement to the External system about the MSISDN porting request. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

<?xml version="1.0"?>

<COMMAND>

<TYPE>**UPLOADMNPFILERESP**</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<ERROR\_KEY><Error Code></ERROR\_KEY>

<DATE><Date and time><DATE>

<EXTREFNUM><External Reference number></EXTREFNUM>

<DATA><Return Message></DATA>

</COMMAND>

**Fields Detail**

| TAG | | Fields | | Remarks | | Example | Filed Type | | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | | | | | |
| TYPE | Response type | | Response Type, should be sent with each request - fixed | | UPLOADMNPFILERESP | | A (20) | 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 | |
| ERROR\_KEY | Error key | | If any error | | 218 | | A(10) | O | |
| DATE | Date and time | | Date and time on which request generated by external system, HH are in 24 Hour Format | | DD-MM-YYYY HH:MM:SS | | D (20) | M | |
| EXTREFNUM | External reference code | | External reference code | |  | | A (2) | M | |
| DATA | Response message | | Response message | |  | | A (2) | M | |

## Physical Voucher – Authenticate Request

**Authenticate Voucher Request Message Parameters**

The flow of this message is from 3rd party system to the PreTUPSTM. The message is used to verify the Voucher Status.

The 3rd party system will send this message to check the existence of the Voucher and its Status. If Voucher exists and its status is ‘ENABLED’ then Voucher status is temporarily updated to ‘UNDER\_PROCESS’.

**Note: -** Only Under Process vouchers can be consumed

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>VOUENQREQ</TYPE>

<PIN>< PIN Number></PIN>

<SNO>< Serial Number></SNO>

<SUBID>< Subscriber ID></SUBID>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<LOGINID>< Sender Login ID</LOGINID>

<PASSWORD>< Sender Login Password</PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<LANGUAGE1>< Sender Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<EXTCODE>>< Sender unique External code></EXTCODE>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| PIN | PinNo | Used to identify PIN Number. |  | Numeric  Length configurable | Y |
| SUBID | SubId | Subscriber ID provided by External Entity |  | Char  Provided by external Entity | Y |

# Field Details

* + **PinNo:** External Entity provided PIN Number is verified with the PIN Number stored in PreTUPS.
  + **SubID:** Subscriber ID to identify the subscriber punching the Voucher’s PIN Number.

# Response XML format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND><TYPE>VOUENQRESP</TYPE>

<TXNSTATUS>< *Transaction Status* ></TXNSTATUS>

<SNO>< Voucher Serial Number></SNO>

<TOPUP>< Denomination associated with voucher ></TOPUP>

<SUBID> <Subscriber ID provided by External Entity> </SUBID>

<REGION>< Region associated with the Voucher></REGION>

<VALID>< Identify whether the Voucher is Enabled for Consumption or not ></VALID>

<MESSAGE>< Describe the status of the Voucher in case Voucher is already ></MESSAGE>

<ERROR>< Error code defined for the response></ERROR>

</COMMAND>

**Authenticate Voucher Response Message Parameters**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| PIN | SerialNo | Used to identify Voucher Serial Number. |  | Max=14  Numeric | Y |
| SUBID | TopUp | Denomination associated with voucher |  | Max=10  Numeric | Y |
|  | SubID | Subscriber ID provided by External Entity |  | Provided by External Entity  Char | N |
|  | Region | Region associated with the Voucher. |  | Provided by External Entity  Char | N |
|  | Valid | Used to identify whether the Voucher is Enabled for Consumption or not. |  | Y/ N  Char | Y |
|  | Message | Used to describe the status of the Voucher in case Voucher is already Consumed or Disabled. |  | Message Codes  Numeric | Y |
|  | Error | Error code defined for the response. |  | Error Codes  Numeric | N |

**Parameter Details:**

* **SerialNo:** Voucher Serial No.
* **TopUp:** Attribute associated with voucher to identify the amount that will be credited in subscribers account.
* **SubID:** Subscriber ID to identify the subscriber punching the Voucher’s PIN Number.
* **Region:** The region code provided by the External Identity, while enabling vouchers. The region associated with the Voucher is send as Voucher attribute.
* **Valid:** It identifies whether the Voucher is valid for consumption or not. Valid Voucher is identified by value = ‘Y’. Invalid Voucher is identified by value = ‘N’.
* **Message:** It gives the status of the Voucher, in case parameter Valid=”N”. Voucher could have various status like ONHOLD, STOLEN, DAMAGE, CONSUMED, EXPIRED, UNDER\_PROCESS.
* **Error:** Error is a common parameter used to display errors due to incorrect request format or invalid parameters. Error can be various types like Malformed Request, PIN Not Found, etc.

## Voucher Consumption Request Message

**Request Message Parameters**

For Voucher Consumption, 3rd party system will send the request message with the following parameter and PreTUPS server will send the response message.

The 3rd party system will send the request message that will be used to check whether the Voucher is available for consumption or not. If the Voucher PIN Number is valid and its Status is “UNDER\_PROCESS”, then PreTUPS system updates the status of the Vouchers as “CONSUMED”.

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>VOUCONSREQ</TYPE>

<PIN>< PIN Number></PIN>

<SUBID>< Subscriber ID></SUBID>

<VTYPE>< Voucher type></VTYPE>

<SNO>< Serial Number></SNO>

<LOGINID>< Sender Login ID</LOGINID>

<PASSWORD>< Sender Login Password</PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE><LANGUAGE1><Sender Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<EXTCODE>>< Sender unique External code></EXTCODE>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| PIN | PinNo | Used to identify PIN Number. |  | Numeric  Length configurable | M |
| SUBID | Subscriber id | Subscriber msisdn |  | Numeric | M |
| VTYPE | Voucher type | Type of voucher |  | Alphanumeric | O |
| SNO | Serial no | Serial no of pin |  | Alphanumeric | M |
| PASSWORD | Password | Password of sender |  | Alphanumeric | M |
| LOGINID | Login id | Login id of sender |  | Alphanumeric | M |
| EXTREFNUM | External Reference Number | Reference number |  | AlphaNumeric | O |
| LANGUAGE1 | <Retailer Language> | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | 0 | A (10) | O |
| LANGUAGE2 | < Noticer Langauge> | Numeric only, Noticer Language Code  This code must be defined in PreTUPS system. | 0 | A(10) | O |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O ( |

**Field Details**

* **PinNo:** External Entity provided PIN Number is verified with the PIN Number stored in PreTUPS.

# Response XML format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND><TYPE>VOUCONSRESP</TYPE>

<TXNSTATUS>200</TXNSTATUS>

<SNO>722000000000000</SNO>

<TOPUP>50</TOPUP>

<VSTATUS>EN</VSTATUS>

<COMSUMED>Y</COMSUMED>

<VEXPIRYDATE>17/08/17</VEXPIRYDATE>

<SUBID>7200001245</SUBID>

<TALKTIME>50.0</TALKTIME>

<VOUCHERPROFILEID>53</VOUCHERPROFILEID>

<VOUCHERPROFILENAME>harshadVMS</VOUCHERPROFILENAME>

<VALIDITY>100</VALIDITY>

<ERROR>200</ERROR>

<MESSAGE>SUCCESS</MESSAGE>

</COMMAND>

>

**Voucher Consumption Response Message Parameters**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| SNO | SerialNo | Used to identify Voucher Serial Number |  | Max=14  Numeric | Y |
| TOPUP | TopUp | Amount that will be credited in subscribers account |  | Max=10  Numeric | Y |
| COMSUMED | Consumed | Subscriber ID provided by External Entity |  | Y/N  Char | Y |
| MESSAGE | Message | Region associated with the Voucher |  | Message Codes  Numeric | Y |
| VALIDITY | VALIDITY | Validity of voucher |  |  | Y |
| ERROR | Error | Error code defined for the response |  | Error Codes  Numeric | N |
| SUBID | Subscriber id | Subscriber msisdn |  |  | Y |
| VSTATUS | Voucher status | status |  |  | Y |
| VEXPIRYDATE | Voucher expiry date | Expiry date of voucher |  |  | Y |
| TALKTIME | Talk time | Talk time of voucher |  |  | Y |
| VOUCHERPROFILEID | Voucher profile id | Voucher profile id |  |  | Y |
| VOUCHERPROFILENAME | Voucher profile name | Voucher profile Name |  |  | Y |

**Parameter Details:**

* **SerialNo:** Voucher Serial no.
* **TopUp:** Attribute associated with voucher to identify the amount that will be credited in subscribers account.
* **Consumed:** It identifies whether the Voucher is consumed or not. Consumed status is identified by value = ‘Y’. If not consumed status is identified by value=‘N’.
* **Message:** It gives the status of the Voucher, in case parameter Consumed =’N’ Voucher could have status like ONHOLD, STOLEN, DAMAGE, CONSUMED, EXPIRED, ENABLED.
* **Error**: Error is a common parameter used to display errors due to incorrect request format or invalid parameters. Error can be various types like Malformed Request, PIN Not Found, etc.

## Voucher PIN Topup by External System to PreTUPS

The subscriber can make scratch card topup request through External System like IVR/USSD and it should be sent to PreTUPS platform.

External system will send below API request to PreTUPS in the following format:

# XML Request Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>**VOMSCONSREQ**</TYPE>

<DATE><**Date and time**></DATE>

<EXTNWCODE>*<****Network External Code****>*</EXTNWCODE>

<MSISDN>*<****Retailer or Subscriber MSISDN****>*</MSISDN>

<PIN>< **Retailer or Subscriber PIN**></PIN>

<LOGINID><**Retailer user Login ID**></LOGINID>

<PASSWORD><**Retailer User Login Password**></PASSWORD>

<EXTCODE>*<****Retailer user unique External code****>*</EXTCODE>

<EXTREFNUM><**Unique Reference number in the external system**></EXTREFNUM>

<VOUCHERCODE><**Scratch Code**></VOUCHERCODE>

<SERIALNUMBER>< ***Serial Number*** ></SERIALNUMBER>

<LANGUAGE1><**Retailer/Subscriber Language**></LANGUAGE1>

</COMMAND>

# Field Details

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | EXRCTRFREQ | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | MO | 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 (Tag is mandatory) |
| PIN | Channel user/Subscriber PIN | PIN of the user | 123 | A (10) | O (Tag is mandatory) |
| LOGINID | Login ID | Login ID of the Channel user | Mo\_cce | A (20) | O |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O (Tag is mandatory) |
| EXTCODE | External code of the channel user | Unique external code of the channel user defined in PreTUPS. | 123 | A (10) | O (Tag is mandatory) |
| EXTREFNUM | External Reference number | Unique Reference number in the external system.  PreTUPS will not check uniqueness | 12345 | A (20) | O (Tag is mandatory) |
| **Note:** Between MSISDN, LOGINID and EXTCODE value of one of them must be present, either MSISDN, LOGINID or EXTCODE. All of them can also be present in request | | | | | |
| VOUCHERCODE | Scratch Code | Scratch Code | 994222211221 | N (15) | M |
| SERIALNUMBER | Serial Number | Serial Number | 978624875645 | N (15) | O (Tag is mandatory) |
| LANGUAGE1 | <Retailer Language> | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. | 0 | A (10) | O (Tag is mandatory)  Default value 0 |

# XML Response format:

PreTUPS will send following response (acknowledgement) to External system for customer recharge request:

# XML format:

<?xml version="1.0"?>

<COMMAND>

<TYPE>EXRCTRFRESP</TYPE>

<TXNSTATUS>*<Transaction Status>*</TXNSTATUS >

<DATE><Date and time></DATE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<TXNID>*<PreTUPS Transaction ID>*</TXNID>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

# Field Details

| TAG | 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 response was sent from PreTUPS. 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 system | 12345 | A (20) | O  (Tag is mandatory |
| TXNID | <Transaction ID> | PreTUPS Transaction ID for the Customer Recharge Transaction | R080912.1212.1234 | 20 | M |
| MESSAGE | Message that will given in response | Message |  | A (500) | O  (Tag is mandatory |

# Business Rules

* Service can be used by both retailer and subscriber.
* VOUCHER CODE received in request should be of specified length configured at system level.
* SERIAL NUMBER received in request should be of specified length configurable at system level.
* If SERIAL NUMBER is received in request then VOUCHER CODE received in request should be of a minimum specified length configured at system level, and VOUCHER CODE received in this case should have the pin sequential to be matched successfully with a VOUCHER CODE present in the system.
* After successful validation of VOUCHER CODE the amount that is held by corresponding VOUCHER CODE is credited in the account of MSISDN from which request was received.
* And the VOUCHER CODE is marked as consumed in the system.

## Voucher Query Request

**Request Message Parameters**

For Voucher Query, 3rd party system will send the request message with the following parameter and PreTUPS server will send the response message.

The 3rd party system will send the request message that will be used to check the status of the voucher in the system, based on PIN or Serial Number or both.

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>*VOUQRYREQ*</TYPE>

<PIN>< *PIN Number*></PIN>

<SNO>< *Serial Number*></SNO>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<LOGINID>< Sender Login ID</LOGINID>

<PASSWORD>< Sender Login Password</PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<LANGUAGE1><Sender Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<EXTCODE>>< Sender unique External code></EXTCODE>

<ACTION> Either PIN or serial or Both present present in response based on its value</ACTION>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| PIN | PinNo | Used to identify PIN Number. | 97862487564510 | Numeric  Length configurable | M |
| SNO | SerialNo | Used to identify Serial Number. | 978624875645 | Numeric  Length configurable | M |
| ACTION | ACTION | Note:- S indicate Serial Number, P indicate PIN and B indicate BOTH | P | Alphabate ( P,S,B) | O |

**Note:** Any one out of PIN and SNO is Mandatory.

**Field Details**

* **PinNo:** External Entity provided PIN Number is verified with the PIN Number stored in PreTUPS.
* **Serial Numebr:** The Serial Number associated is verified with the PIN Number stored in PreTUPS.
* If query request initiated using PIN and
  + - If ACTION is S then in Response only Serial Number will be returning along with other parameter like TOPUP, STATUS, SUBID etc.
    - If ACTION is P then in Response only PIN will be returning along with other parameter like TOPUP, STATUS, SUBID etc.
    - If ACTION is B then in Response both Serial Number and PIN will be returning along with other parameter like TOPUP, STATUS, SUBID etc.
* If query request initiated using Serial Number then in Response only Serial Number will be returning along with other parameter like TOPUP, STATUS, SUBID etc. in respective of ACTION value provided in request.

# Response XML format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND><TYPE>*VOUQRYRESP*</TYPE>

<TXNSTATUS>< *Transaction Status* ></TXNSTATUS>

<PIN>< *Identify Voucher PIN Number*></PIN>

<SNO>< *Identify Voucher Serial Number*></SNO>

<TOPUP>< Denomination associated with voucher ></TOPUP>

<STATUS>< Current Status of Voucher in System></STATUS>

<STATUS\_DESCRIPTION>GENERATED</STATUS\_DESCRIPTION>

<VOUCHER\_EXPIRY\_DATE>31/07/20</VOUCHER\_EXPIRY\_DATE>

<VOUCHER\_CONSUMED\_DATE>NA</VOUCHER\_CONSUMED\_DATE>

<SUBID>NA</SUBID>

<TALKTIME>25</TALKTIME>

<VOUCHERPROFILEID>2</VOUCHERPROFILEID>

<VOUCHERPROFILENAME>Twenty Five</VOUCHERPROFILENAME>

<VALIDITY>25</VALIDITY>

<ERROR>< Error defined for the response></ERROR>

</COMMAND>

**Voucher Query Response Message Parameters**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| PIN | PIN No | Used to identify Voucher PIN Number | 97862487564510 | Max=14  Numeric | M\* |
| SNO | Serial No | Used to identify Voucher Serial Number | 978624875645 | Max=14  Numeric | M\* |
| TOPUP | Top Up | Amount that will be credited in subscribers account | 10 | Max=10  Numeric | M |
| STATUS | Voucher Status | Voucher Status in System | EN | Char | M |
| <STATUS\_DESCRIPTION> | STATUS\_DESCRIPTION | Status description of voucher | Generated |  | M |
| <VOUCHER\_EXPIRY\_DATE> | VOUCHER\_EXPIRY\_DATE | Voucher expiry date | 31/07/17 |  | M |
| <VOUCHER\_CONSUMED\_DATE> | VOUCHER\_CONSUMED\_DATE | Voucher consumed date | 31/08/17 |  | M |
| <SUBID> | SUBID | Subscribers id | 7141414141 |  | M |
| <TALKTIME> | TALKTIME | Talk time associated | 25 |  | M |
| <VOUCHERPROFILEID> | VOUCHERPROFILEID | Voucher profile ID | 2 |  | M |
| <VOUCHERPROFILENAME> | VOUCHERPROFILENAME | Voucher profile name | Twenty Five |  | M |
| <VALIDITY> | VALIDITY | Validity day of voucher | 25 |  | M |
| ERROR | Error | Error defined for the response | SUCCESS |  | O |

**\*Note:** Any one out of PIN and S NO is Mandatory.

**Parameter Details:**

* **PINNo:** Voucher PIN no.
* **SerialNo:** Voucher Serial no.
* **TopUp:** Attribute associated with voucher to identify the amount that will be credited in subscribers account.
* **Status:** It identifies whether the status of Voucher in System like “EN” for Enable

## **Error**: Error is a common parameter used to display errors due to incorrect request format or invalid parameters. Error can be various types like Malformed Request, PIN Not Found, etc.Voucher Rollback Request

**Request Message Parameters**

For Voucher RollBack, 3rd party system will send the request message with the following parameter and PreTUPS server will send the response message.

The 3rd party system will send the request message that will be used to check the status of the voucher in the system, and based on the status, if the status is found to be CU or UP, it shall be marked EN.

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>*VOURBKREQ*</TYPE>

<SUBID>< Subscriber ID></SUBID>

<PIN>< *PIN Number*></PIN>

<EXTNWCODE>*<Network External Code>*</EXTNWCODE>

<LOGINID>< Sender Login ID</LOGINID>

<PASSWORD>< Sender Login Password</PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<LANGUAGE1><Sender Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<EXTCODE>>< Sender unique External code></EXTCODE>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| PIN | PinNo | Used to identify PIN Number. | 97862487564510 | Numeric  Length configurable | M |
| SUBID | SubId | Subscriber ID provided by External Entity | 7234563412 | Char  Provided by external Entity | O |

**Field Details**

* **PinNo:** External Entity provided PIN Number is verified with the PIN Number stored in PreTUPS.
* **SubID:** Subscriber ID to identify the subscriber punching the Voucher’s PIN Number.

# Response XML format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND><TYPE>*VOURBKRESP*</TYPE>

<TXNSTATUS>< *Transaction Status* ></TXNSTATUS>

<SNO>< Identify Voucher Serial Number></SNO>

<TOPUP>< Denomination associated with voucher ></TOPUP>

<ERROR>< Error defined for the response></ERROR>

</COMMAND>

**Voucher RollBack Response Message Parameters**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TXNSTATUS | Transaction Status | Status of the request  Transaction Status= 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (10) | M |
| SNO | SerialNo | Used to identify Voucher Serial Number | 978624875645 | Max=14  Numeric | M |
| TOPUP | TopUp | Amount that will be credited in subscribers account | 10 | Max=10  Numeric | M |
| ERROR | Error | Error defined for the response | SUCCESS |  | O |

**Parameter Details:**

* **TransactionStatus:** Status of the Request.
* **SerialNo:** Voucher Serial no.
* **TopUp:** Attribute associated with voucher to identify the amount that will be credited in subscribers account.
* **Error**: Error is a common parameter used to display errors due to incorrect request format or invalid parameters. Error can be various types like Malformed Request, PIN Not Found, etc.

## LMS Points Enquiry

**Request Message Parameters**

# Request Syntax

DATA=<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>LMSPTENQ</TYPE>

<PRODUCTCODE>Product short code of product</PRODUCTCODE><EXTNWCODE>NG</EXTNWCODE>

<DATE></DATE>

<MSISDN>7225545645</MSISDN>

<PIN>2468</PIN>

<LOGINID></LOGINID>

<PASSWORD></PASSWORD>

<EXTCODE>5757</EXTCODE>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | LMSPTENQ | A (20) | M(Tag is mandatory) |
| PRODUCTCODE | 101 | 101-voiceTopUP  102-dataTopUP  104-weinakTopUP  105-vasTopUP  106-mixTopUP | 3 | O(Tag is mandatory) | Product short code should be provided if specific product is being used. |
| EXTNWCODE | External Network Code | External Network Code of the User Should be sent to in the request | NG | A (20) | M(Tag is mandatory) |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | M(Tag is mandatory) |
| MSISDN | User MSISDN | User MSISDN Should Be sent, All MSISDN should be in national dial format i.e. with out country code. | 9560058523 | N(20) | O(Tag is mandatory) |
| PIN | USER PIN | Pin of the User | 2468 | N(10) | O(Tag is mandatory) |
| LOGINID | USER LOGINID | Login ID of the User | Mu\_pra | A(20) | O(Tag is mandatory) |
| PASSWORD | USER PASSWORD | Password of the User | com@12 | A(20) | O(Tag is mandatory) |
| EXTCODE | USER Eeternal Code | Numeric only, USER Eeternal Code, this is defined for each user | 256359 | N(20) | O(Tag is mandatory) |
|  |  |  |  |  |  |

**Note:** Between MSISDN/PIN, LOGINID/PASSWORD and EXTCODE value of one of them must be present, either MSISDN/PIN, LOGINID/PASSWORD or EXTCODE. All of them can also be present in request This is configurable dynamically in system now, that which fields and values have to be mandatory via SERVICE\_KEYWORDS Table.

# Response Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>LMSPTENQRES</TYPE>

<DATE>10/03/2015 16:00:56</DATE>

<TXNSTATUS>200</TXNSTATUS>

<POINTS> ETOPUP:90</POINTS>

<MESSAGE>Your Total Loyalty Points are 90</MESSAGE>

</COMMAND>

**Field Details**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | LMSPTENQRES | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| TXNSTATUS | Transaction Status | Status of the request  Transaction Status= 200 means Success,  Transaction Status Other than 200 means failed | 200 | N(10) | M |
| POINTS | Loyalty points | Used to identify Voucher Serial Number | 100 | N(10) | M |
| MESSAGE | Message | Message to be displayed |  | A (500) | O  (Tag is mandatory) |

## LMS Points Redemption

# Request Syntax

DATA=<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>LMSPTRED</TYPE>

<PRODUCTCODE>Product short code of product</PRODUCTCODE>

<EXTNWCODE>NG</EXTNWCODE>

<DATE>14/03/25</DATE>

<MSISDN></MSISDN>

<PIN></PIN>

<LOGINID></LOGINID>

<PASSWORD></PASSWORD>

<EXTCODE>5757</EXTCODE>

<POINTS>100</POINTS>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | LMSPTRED | A (20) | M(Tag is mandatory) |
|  |  |  |  |  |  |
| EXTNWCODE | External Network Code | External Network Code of the User Should be sent to in the request | NG | D (20) | M (Tag is mandatory) |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D(20) | M(Tag is mandatory) |
| MSISDN | User MSISDN | User MSISDN Should Be sent, All MSISDN should be in national dial format i.e. with out country code. | 9560058253 | N(20) | O(Tag is mandatory) |
| PIN | USER PIN | Pin of the User | 2569 | N(10) | O(Tag is mandatory) |
| LOGINID | USER LOGINID | Login ID of the User | JK\_lm | A (20) | O(Tag is mandatory) |
| PASSWORD | USER PASSWORD | Password of the User | com@23 | N(10) | O(Tag is mandatory) |
| EXTCODE | USER External Code | Numeric only, USER Eeternal Code, this is defined for each user | 214531 | N(20) | O(Tag is mandatory) |
| POINTS | Points to be redeemed | This value should be numeric only | 100 | N(20) | M(Tag is mandatory) |
|  |  |  |  |  |  |

Note: Between MSISDN/PIN, LOGINID/PASSWORD and EXTCODE value of one of them must be present, either MSISDN/PIN, LOGINID/PASSWORD or EXTCODE. All of them can also be present in request. This is configurable dynamically in system now, that which fields and values have to be mandatory via SERVICE\_KEYWORDS Table.

# Response Syntax

<?xml version="1.0"?>

<COMMAND>

<TYPE>LMSPTREDRES</TYPE>

<DATE>10/03/2015 15:59:33</DATE>

<TXNSTATUS>200</TXNSTATUS>

<REDTXNID>LMS150310.1559.1201</REDTXNID>

<REMPOINTS>90</REMPOINTS>

<CREDITEDAMOUNT>5</CREDITEDAMOUNT>

<MESSAGE>Your Current Loyalty Points are 90 Credited Amount is 5 and Redemption Transaction ID is LMS150310.1559.1201 from product wallet ETOPUP.</MESSAGE>

</COMMAND>

**Field Details**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request – fixed | LMSPTREDRES | A (20) | M |
| DATE | Date and time | Date and time on which request was sent by external system, HH are in 24 Hour Format | DD/MM/YYYY HH24:MI:SS | D (20) | O (Tag is mandatory) |
| TXNSTATUS | Transaction Status | Status of the request  Transaction Status= 200 means Success,  Transaction Status Other than 200 means failed | 200 | N(10) | M |
| REDTXNID | RedTransaction ID | PreTUPS Tedemption Transaction ID n | R080912.1212.1234 | 20 | M |
| CREDITEDAMOUNT | Credited Amount | Numeric Only. | 100 | 10 | M |
| REMPOINTS | Remaining Loyalty points | Remaining Loyalty Points | 100 | N(10) | M |
| MESSAGE | Message | Message to be displayed |  | A (500) | O  (Tag is mandatory) |

## User Deletion XML API

External system may use this API to delete a single Channel user.

# URL

<http://PreTUPShost/OPTReceiver>?

### XML Request Syntax

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

<?xml version="1.0"?>

<COMMAND>

<TYPE>USERDELREQ</TYPE>

<DATE><Date and time></DATE><EMPCODE><Employee Code of the Operator user></EMPCODE>

<CATCODE>Category Code of the user</CATCODE>

<LOGINID><Login ID of the Operator user></LOGINID>

<PASSWORD><Password of the Operator user></PASSWORD>

<EXTCODE>External Code of the user</EXTCODE>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<DATA>

< EXTNWCODE ><Network/Circle Code></ EXTNWCODE>

<MSISDN><MSISDN of the user></MSISDN>

<LOGINID><Login ID of the user></LOGINID>

<REMARKS><Additional Text></REMARKS>

</DATA>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Filed Type | | Optional/  Mandatory | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Common TAGS** | | | | | | | | | |
| TYPE | Request type | Request Type, should be sent with each request - fixed | USERDELREQ | A (20) | | M | |
| DATE | Date and time | Date and time on which request generated by external system According to the system preference *EXTERNAL\_DATE\_FORMAT* | Date Format : According to the system preference *EXTERNAL\_DATE\_FORMAT* | D (20) | | M | |
| EMPCODE | Employee code | Employee code of the operator user. | 123 | A (10) | | O | |
| LOGINID | Login ID | Login ID of the Operator user | Btchadm | A (20) | | O | |
| PASSWORD | Password | Password of the Operator user | 2468 | A (8) | |
| CATCODE | Category code | Category Code of the user | BCU | A(5) | | O | |
| EXTCODE | External Code | External Code of the Sender | 15531 | N (15) | | O | |
| **Note:** Between EMPCODE, EXTCODE and LOGINID value of one of them must be present. All of them can also be present in the request. | | | | | | | | | |
| EXTREFNUM | External Reference number | Unique Reference number in the external system. | 12345 | A (20) | | O | |
| **DATA –Data sub tags will be considered as main request tags** | | | | | | |
| EXTNWCODE | Network code | Channel users circle code | MU | A(2) | | M | |
| MSISDN | Channel user MSISDN | All MSISDN should be in national dial format i.e. without country code. | 9942222 | N (15) | | O | |
| LOGINID | Login id of the channel user | Unique LoginID of the channel user defined in the PreTUPS system. | Mo\_ws1 | A (20) | | O | |
| REMARKS | Any remarks against the delete request | Free text | User inactive. Account balance withdrawn | A (100) | O (Tag is mandatory) | | | |
|  | | | | | | | | |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.
* In case of non-receiving of mandatory field(s), request will be rejected with appropriate error code.
* Between EXTCODE, EMPCODE & LOGINID value of one of them must be present, i.e. EMPCODE or LOGINID or EXTCODE.
* If all the 3 details (EXTCODE, EMPCODE & LOGINID) are provided, then values as provided under MSISDN would be treated as valid & accordingly processed.

# Request API Business Rules

* To identify Channel users, its mandatory for the External system to send either the Channel user’s **MSISDN** or **LOGINID**
* *If all the 2 details (MSISDN, & LOGINID) are provided in a request, then values as provided under* ***MSISDN*** *would be treated as valid & accordingly processed.*
* Using this API, only one Channel user can be deleted at a time.
* Text provided under the tag REMARKS would not be validated by PreTUPS

### XML Response Syntax

PreTUPS send the acknowledgement to the External system about the transaction status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

<?xml version="1.0"?>

<COMMAND>

   <TYPE>**USERDELRESP**</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<MESSAGE><Error Message></MESSAGE>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| **Common Response TAGS** | | | | | |
| TYPE | Response type | Response Type | USERDELRESP | C (15) | M |
| TXNSTATUS | Transaction Status | Status of the request  Transaction Status  250- Ambiguous  205- Under process  200- Successful  206- Fail or others status will fail. | 200 | N (7) | M |
| MESSAGE | Error message | Error message in case of failure in user registration | Message test | A (250) | O |

* The value for TYPE tag is fixed as mentioned in syntax.
* Business rules for User delete would be similar to what is currently applicable for User delete. For example, User should not have any Child user existing under them during deletion.
* Channel users who are getting deleted would be notified by SMS (*English message*) about the same by PreTUPS.

## C2S RECHARGE REVERSAL XML API

# External System may use this API to revert C2S recharge.URL

<http://PreTUPShost/C2SReceiver>?

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE> RCREVREQ </TYPE>

<EXTNWCODE>External Network Code</EXTNWCODE>

<MSISDN>msisdn of channel user</MSISDN>

<PIN>PIN</PIN>

<LOGINID>Login Id of channel user</LOGINID>

<PASSWORD>Password</PASSWORD>

<EXTCODE>External Code</EXTCODE>

<EXTREFNUM>External reference number</EXTREFNUM>

<MSISDN2>msisdn of Subscriber</MSISDN2>

<TXNID>Transaction Id of Recharge</TXNID>

<LANGUAGE1>Language Code of Channel user</LANGUAGE1>

<LANGUAGE2>language Code of Subscriber</LANGUAGE2>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| <TYPE> | RCREVREQ | Fixed value | RCREVREQ | C | M |
| <EXTNWCODE> | External Network Code | External network code of length 2 | NG | C(2) | M |
| <MSISDN> | Msisdn | msisdn of channel user | 7255554444 | N(10) | O |
| <PIN> | PIN | PIN of Channel user | 1357 | N(15) | Mandatory if MSISDN is provided |
| <LOGINID> | Login Id | Login Id of channel user | Dist123 | C(20) | O |
| <PASSWORD> | password | Password of Channel User | com@1234 | C(20) | Mandatory if login id is provided |
| <EXTCODE> | External Code | External Code of Channel User | 12345 | N(10) | O |
| <EXTREFNUM> | External reference number | External reference number | 35466 | C(20) | O |
| <MSISDN2> | msisdn | msisdn of Subscriber | 7205050505 | N(10) | O |
| <TXNID> | Transaction Id | Transaction Id of recharge | R160224.1144.500001 | C(50) | M |
| <LANGUAGE1> | Language Code | Language Code of Channel user | 1 | N(2) | O |
| <LANGUAGE2> | Language Code | language Code of Subscriber | 1 | N(2) | O |

**Note : Out of MSISDN, LOGIN ID and External Code of Channel User, One of them is mandatory. All of them can also be present in the request.**

# Response XML format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND><TYPE> RCREVRESP </TYPE>

<TXNSTATUS>< *Transaction Status* ></TXNSTATUS>

<DATE>Date of transaction</DATE>

<TXNID> Transaction ID </TXNID>

<MESSAGE> Message</MESSAGE>

</COMMAND>

**Voucher RollBack Response Message Parameters**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| 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 | Date of system | 31-05-2016 | Date | M |
| TXNID | Transaction id | Transaction Id | R160224.1144.500001 | C(50) | M |
| MESSAGE | Message | Message | Success | C | O |

## 2.49 Retrieve all Eligible Card Details for a Subscriber API

### XML Request Syntax

Below is the request XML for the API:

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>**CGENQREQ**</TYPE>

<MSISDN1>***<Channel user MSISDN>***</MSISDN1>

<PIN>***<Channel user PIN>***</PIN>

<EXTNWCODE><Network External Code></EXTNWCODE>

<LOGINID><Channel user Login ID</LOGINID>

<PASSWORD><Channel User Login Password</PASSWORD>

<MSISDN2><**Subscriber MSISDN>**</MSISDN2>

<SERVICETYPE><**Service type**></SERVICETYPE>

<SUBSERVICE><Sub service for service></SUBSERVICE>

<AMOUNT><**Amount in Higher Denomination**></AMOUNT>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Request type | Request Type, should be sent with each request | CGENQREQ | C (15) | M |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | MO | A (2) | M |
| MSISDN1 | Channel user MSISDN who is accessing the USSD system | All MSISDN should be in national dial format. | 9942222 | N (15) | O |
| PIN | Pin of the channel user | PIN of the channel user. PIN would plain encrypted string | 1357 | N (4) | O (Tag is mandatory) |
| LOGINID | Login ID | Login ID of the Channel user  **When LOGINID is available in request then PASSWORD is mandatory for the request** | Mo\_cce | A (20) | O |
| PASSWORD | Password | Password of the Channel user | 2468 | A (10) | O |
| **Note:** Between MSISDN and LOGINID value of one of them must be present, MSISDN or LOGINID. All of them can also be present in request. PIN would be blank and would not be validated if given (As required by Idea) | | | | | |
|  |  |  |  |  |  |
| EXTREFNUM | External Reference number | Unique Reference number in the external system like DMS. | 12345 | A (20) | O |
| MSISDN2 | Subscriber MSISDN | All MSISDN should be in national dial format. | 9942222 | N (15) | M |
| SERVICETYPE | Requested Service | Unique Service keyword to identify the service through External gateway. It could be RC. | RC (Fixed value) | C (10) | M |
| SUBSERVICE | Sub service | **Sub service code** configured in the system | DATA | A(10) | O(Tag is mandatory) |
| AMOUNT | Amount | Amount in higher denomination for which enquiry is required | 10 | N(12,2) | M |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

### XML Response Syntax

PreTUPS send the acknowledgement to the EXTGW system about the Enquiry status. The acknowledgement will be in XML and send as response of the request. The XML response details are mentioned below.

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command1.0//EN""xml/command.dtd">

<COMMAND>

<TYPE>CGENQRESP</TYPE>

<TXNSTATUS>***<Status of the Enquiry>***</TXNSTATUS>

<MESSAGE><Message></MESSAGE>

<SERVICECLASS><Service class of the subscriber></SERVICECLASS>

<MSISDN2>Mobile Number of subscriber</MSISDN2>

<CGDETAILS>

<DETAIL>

<SLABAMT><Allowed amount for the service in slabs></SLABAMT>

<CGDESC><Card group Name or description/></CGDESC>

<SUBSERVICE><Subservice for service></SUBSERVICE>

</DETAIL>

<DETAIL>

<SLABAMT><Allowed amount for the service in slabs></SLABAMT>

<CGDESC><Card group Name or description ></CGDESC>

<SUBSERVICE><Subservice for service ></SUBSERVICE>

</DETAIL>

<DETAIL>

<SLABAMT><Allowed amount for the service in slabs></SLABAMT>

<CGDESC><Card group Name or description ></CGDESC>

<SUBSERVICE><Subservice for service ></SUBSERVICE>

</DETAIL>

.

.

.

</CGDETAILS>

</COMMAND>

# Fields Detail

| TAG | Fields | Remarks | Example | Field Type | Optional/Mandatory |
| --- | --- | --- | --- | --- | --- |
| TYPE | Response type | Response Type | CGENQRESP | C (15) | M |
| TXNSTATUS | Transaction Status | Status of the External system Enquiry request  Transaction Status = 200 means Success,  Transaction Status Other than 200 means failed | 200 | N (7) | M |
|  |  |  |  |  |  |
| MESSAGE | Message regarding the Enquiry requested MSISDN |  | Successful or Failed | C(15) | M |
| SERVICECLASS | Service class | Service class of the subscriber | SCLASS! | C(15) | M |
| MSISDN2 | Payee MSISDN | 9942223 | 15 | M | Numeric and without country code. |
| SLABAMT | Allowed Amount range for the requested service (in slabs if exist) | Allowed amount range for the requested service | 10-10000  Or  15 | A(50) | M |
| CGDESC | Card group description | Card group description defined in card group set | 50 MB data | C(20) | M |
| SUBSERVICE | Sub service | **Sub service code** configured in the system | DATA | A(10) | M |

* The value for TYPE tag is fixed as mentioned in syntax.
* Based on the retailer detail system will identify the domain of the retailer which will use to get the relevant card groups.
* There is IN communication to get the service class of the subscriber
* SUBSERVICE will contain values which will be different from refill ID that is passed to IN. PreTUPS will internally map and send appropriate refillID to IN

## 2.50 Lite Customer Recharge

External system can send the recharge request of a subscriber. Recharge of a subscriber can be done by the channel users.

### XML Request Syntax

The external system will send the following request for Customer Recharge. The request format and details of request are mentioned below.

**Request Syntax**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>RCTRFSERREQ</TYPE>

<EXTNWCODE><Network External Code></EXTNWCODE>

<MSISDN1><Retailer MSISDN></MSISDN1>

<PIN><Retailer PIN></PIN>

<MSISDN2>< Payee MSISDN></MSISDN2>

<AMOUNT><Amount></AMOUNT>

<LANGUAGE1><Retailer Language></LANGUAGE1>

<LANGUAGE2><Payee Language></LANGUAGE2>

<SELECTOR><Selector></SELECTOR>

<SERVICECLASS><Service class of the subscriber></SERVICECLASS>

</COMMAND>

* BONUS tag would not be available in this new API.

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/ Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | Request type | RCTRFSERREQ | 10 | M | Request Type |
| EXTNWCODE | Network code | Network code of the Channel User defined in PreTUPS as External Network code | A(2) | M | M |
| MSISDN1 | Retailer MSISDN | 9942222  **When** MSISDN1 **is available in request then** PIN **is mandatory for the request** | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Retailer PIN | 3946 | 4 | -M | Numeric Only. |
|  | | | | | |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| MSISDN2 | Payee MSISDN | 9942223 | 15 | M | Numeric and without country code. |
| AMOUNT | Amount | 100 | 10 | M | Numeric Only. |
| LANGUAGE1 | Retailer Language | 1 | 1 | O | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. |
| LANGUAGE2 | Payee Language | 1 | 1 | O | Numeric only, Payee Language Code  This code must be defined in PreTUPS system. |
| SERVICECLASS | Service class | SCLASS | C(15) | O | Alphanumeric |
| SELECTOR | Selector | 1 | 10 | M | Selector should be numeric 1, 2, 3, 4 and 5. |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* The value for TYPE tag is fixed as mentioned in syntax.

### XML Response Syntax

PreTUPS will send following response (acknowledgement) to EXTGW system for Customer Recharge Request. The XML response details are mentioned below.

**Response Syntax**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>RCTRFSERRESP</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | Response Type | RCTRFSERRESP | 10 | M | Response Type |
| TXNSTATUS | Transaction Status | 200 | 5 | M | Intermediate transaction Status. Final status would be send over the SMS notification. |
| MESSAGE | Message text | Transaction number R161213.1222.200001 to recharge 10 INR to 7233665522 is successful. Your new balance is 874.58 INR | 100 | M | Message text |

* The value for TYPE tag is fixed as mentioned in syntax.

## 2.51 SOS Request

Channel user can send the SOS request through external system

### XML Request Syntax

The request format and details of request are mentioned below.

**Request Syntax**

<?xml version="1.0"?>

<COMMAND>

<TYPE>SOSTRF</TYPE>

<MSISDN><Channel user's MSISDN></MSISDN>

<PIN><Channel user's PIN></PIN>

<PRODUCTCODE><Product code></PRODUCTCODE>

<EXTNWCODE><External network code></EXTNWCODE>

<LOGINID><Channel user's login id></LOGINID>

<PASSWORD><Channel user' password></PASSWORD>

<EXTCODE><Channel user's external code></EXTCODE>

<LANGUAGE1><Channel user's language code></LANGUAGE1>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/ Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | Request type | SOSTRF | 10 | M | Request Type |
| MSISDN | Retailer MSISDN | 9942222  **When** MSISDN1 **is available in request then** PIN **is mandatory for the request** | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Retailer PIN | 3946 | 4 | M | Numeric Only. |
| PRODUCTCODE | Product code | 101 | 10 | M | Alphanumeric |
| EXTNWCODE | Network code | NG | 2 | O |  |
| LOGINID | Login ID | btdist | A (20) | O |  |
| PASSWORD | Password | com@123 | A (10) | O |  |
| EXTCODE | External code | 2324343 | 20 | O |  |
| LANGUAGE1 | Retailer Language | 1 | 1 | O | Numeric only, Retailer Language Code  This code must be defined in PreTUPS system. |

* All tags are mandatory to be present in XML. If value is optional and tag must be present.
* Out of MSISDN and PIN, LOGIN ID and PASSWORD, EXTCODE, and one is mandatory based on the definition of service keyword.

### XML Response Syntax

PreTUPS will send following response (acknowledgement) to EXTGW system for SOS Request. The XML response details are mentioned below.

**Response Syntax**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE> SOSRES</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<DATE><Date></DATE>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | Response Type | SOSRES | 10 | M | Response Type |
| TXNSTATUS | Transaction Status | 200 | 5 | M | Intermediate transaction Status. Final status would be send over the SMS notification. |
| DATE | Date | 09/05/2017 14:47:58 |  | M | Current Date |
| MESSAGE | Message text | Transfer of product(s) eTopUP:10 has been done by operator, net payable amount is 10. Your new balance of product(s) eTopUP:10.10. Transaction ID is OT170509.1448.100001 | 100 | M | Message text |

* The value for TYPE tag is fixed as mentioned in syntax.

## 2.52 SOS MANUAL SETTLEMENT REQUEST

When channel user receives SOS amount then for settlement of that SOS transaction, its parent/owner can initiate SOS manual settlement request from EXTGW.

Request will land on Channel Receiver.

For this specific request, there are following conditions which must be satisfied :

1. SOS Settlement type must be “MANUAL” in system
2. CHANNEL\_SOS\_ALLOWED\_WALLET must be “PARENT” or “OWNER”. According to this preference, When SOS transfer will be completed then amount will get deducted from parent’s or owner’s account. Hence, settlement must be initiated by parent or owner only according to the preference.

The requestor (Parent/owner) can initiate request by providing either MSISDN,PIN or LOGINID,PASSWORD or EXTCODE of self.

Following will be the configuration for SOS Settlement Request Service.

* For executing API with MSISDN,PIN combination, Request parameters in Service Keyword must be “TYPE,EXTNWCODE,MSISDN,PIN,MSISDN1”
* For executing API with LOGINID,PASSWORD combination, Request parameters in Service Keyword must be “TYPE,EXTNWCODE,LOGINID,PASSWORD,MSISDN1”
* For executing API with EXTCODE, Request parameters in Service Keyword must be “TYPE,EXTNWCODE,EXTCODE,MSISDN1”

### XML Request Syntax

The request format and details of request are mentioned below.

**Request Syntax**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>SOSSTL</TYPE>

<EXTNWCODE>network code</EXTNWCODE>

<MSISDN>mobile number of request initiator</MSISDN>

<PIN>pin of request initiator </PIN>

<LOGINID> login id of request initiator </LOGINID>

<PASSWORD> password of request initiator </PASSWORD>

<EXTCODE>external code of request initiator </EXTCODE>

<MSISDN1>mobile number of child user who received SOS from parent/ owner</MSISDN1>

<LANGUAGE1>language code of request initiator </LANGUAGE1>

<LANGUAGE2> language code of msisdn1</LANGUAGE2>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/ Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | Request type | SOSSTL | 10 | M | Request Type |
| EXTNWCODE | Network code | NG | 2 | M |  |
| MSISDN | Owner or parent msisdn | 9942222 | 15 | M | **When** MSISDN **is available in request then** PIN **is mandatory for the request** |
| PIN | Pin of parent or owner | 3946 | 4 | M | Numeric Only. |
| LOGINID | Login ID parent or owner | btdist | A (20) | M |  |
| PASSWORD | Password parent or owner | com@123 | A (10) | M | **When** LOGINID **is available in request then** PASSWORD **is mandatory for the request** |
| EXTCODE | External code parent or owner | 2324343 | 20 | M |  |
| MSISDN1 | Mobile number of receiver (Who initiated SOS transfer request and received SOS) | 7258585858 | 15 | M |  |
| LANGUAGE1 | language code of request initiator | 0 |  | O | If no language code is specified then default language code specified in System preference will be applicable. |
| LANGUAGE2 | language code of msisdn1 | 0 |  | O | If no language code is specified then default language code specified in System preference will be applicable. |

* All tags are mandatory to be present in XML. If value is optional then also tag must be present.
* Out of MSISDN - PIN, LOGIN ID – PASSWORD and EXTCODE, one is mandatory based on the definition of service keyword.

### XML Response Syntax

PreTUPS will send following response (acknowledgement) to EXTGW system for SOS Settlement Request. The XML response details are mentioned below.

**Response Syntax**

<?xml version="1.0"?>

<!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE> SOSSTLRES</TYPE>

<TXNSTATUS><Transaction Status></TXNSTATUS>

<DATE><Date></DATE>

<MESSAGE><Transaction Message></MESSAGE>

</COMMAND>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| Type | Response Type | SOSSTLRES | 10 | M | Response Type |
| TXNSTATUS | Transaction Status | 200 | 5 | M | Intermediate transaction Status. Final status would be send over the SMS notification. |
| DATE | Date | 09/05/2017 14:47:58 |  | M | Current Date and time |
| MESSAGE | Message text | Transaction ID CT170509.1448.100001 is settled with 7258585858 | 100 | M | Message text |

* The value for TYPE tag is fixed as mentioned in syntax.

## 2.53 Voucher Status Change Request

**Request Message Parameters**

For Voucher Status change, 3rd party system will send the request message with the following parameter and PreTUPS server will send the response message.

The 3rd party system will send the request message that will be used to check the status of the voucher in the system, and based on the current status, status of vouchers can be changed.

|  |  |
| --- | --- |
| CURRENT\_STATUS | MAPPED\_STATUS |
| GE | EN |
| PE | WH |
| WH | EN |
| EN | ST |
| EN | OH |
| OH | EN |
| OH | ST |

# Request Syntax

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>VOMSSTCHGREQ</TYPE>

<FROM\_SERIALNO><From Serial Number></FROM\_SERIALNO>

<TO\_SERIALNO><To Serial Number></TO\_SERIALNO>

<STATUS>< Status to migrate></STATUS>

<LOGINID>< Sender Login ID</LOGINID>

<PASSWORD>< Sender Login Password</PASSWORD>

<EXTREFNUM><Unique Reference number in the external system></EXTREFNUM>

<EXTNWCODE><Network External Code></EXTNWCODE>

<EXTCODE>< Sender unique External code></EXTCODE>

</COMMAND>

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| FROM\_SERIALNO | From Serial Number | From serial number for whose status need to change | 508300001559 | N(16) | M |
| TO\_SERIALNO | To Serial Number | To serial number for whose status need to change. | 508300001560 | N(16) | M |
| STATUS | Status | Migrated status | EN/WH | A(5) | M |
| LOGINID | Sender Login ID | Login ID OF Sender | Btnadm | A(20) | O (Tag is mandatory) |
| PASSWORD | Sender Login Password | Password of Sender | com@1234 | A(50) | O (Tag is mandatory) |
| EXTREFNUM | Reference Number of Sender System | Unique Transaction ID of Sender System | REF00001 | A(20) | O (Tag is mandatory) |
| EXTNWCODE | Network Code | Network Code | VM | A(10) | O (Tag is mandatory) |
| EXTCODE | External Code of Sender | Sender External Code | EX001 | A(25) | O (Tag is mandatory) |

# Response XML format:

<?xml version="1.0"?><!DOCTYPE COMMAND PUBLIC "-//Ocam//DTD XML Command 1.0//EN" "xml/command.dtd">

<COMMAND>

<TYPE>VOMSSTCHGRES</TYPE>

<FROM\_SERIALNO><From Serial Number></FROM\_SERIALNO>

<TO\_SERIALNO><To Serial Number></TO\_SERIALNO>

<PRE\_STATUS>< Transaction Status ></PRE\_STATUS>

<REQ\_STATUS>< Identify Voucher Serial Number></REQ\_STATUS>

<TXNSTATUS>< Denomination associated with voucher ></TXNSTATUS>

<MESSAGE>< Error defined for the response></MESSAGE>

</COMMAND>

**Voucher Status Change Response Message Parameters**

| TAG | Fields | Remarks | Example | Field Type | Optional/  Mandatory |
| --- | --- | --- | --- | --- | --- |
| FROM\_SERIALNO | From Serial Number | From serial number for whose status need to change | 508300001559 | N(15) | M |
| TO\_SERIALNO | To Serial Number | To serial number for whose status need to change. | 508300001560 | N(15) | M |
| PRE\_STATUS | Previous Status | Previous status | EN/WH | A(5) |  |
| REQ\_STATUS | Current Status | Migrated status | EN/WH | A(5) |  |
| TXNSTATUS | Transaction Status | Status of the request   * Transaction Status= 200 means Success, * Transaction Status Other than 200 means failed | 200 | N (10) | M |
| MESSAGE | Transaction Message | Success or Failure Reason | Transaction Success | A (500) | O  (Tag is mandatory) |

**Parameter Details:**

* **TransactionStatus:** Status of the Request.
* **SerialNo:** Voucher Serial no.
* **TopUp:** Attribute associated with voucher to identify the amount that will be credited in subscribers account.
* **Error**: Error is a common parameter used to display errors due to incorrect request format or invalid parameters. Error can be various types like Malformed Request, PIN Not Found, etc.

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