Retailer Services API Document

PreTUPS 7.x

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Document History

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Version Number | Created/Modified On: | Description of Changes | Author | Reviewer | Comments |
| 1.0 | 14-07-2018 | Initial version post internal review | Road Map team |  |  |
| 1.1 |  | Added Version API | PreTUPS Team |  |  |
| 1.2 | 21-09-2018 | Modified Version API | PreTUPS Team |  |  |
| 1.3 | 26-10-2018 | Added API  1.Service Selector Info (VASSERVICE)  2.VAS  3.DTH  Modified API  1.C2S Balance enquiry  2.Other balance | PreTUPS Team |  |  |

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 Retailer Services. The scope of this document is limited to the methodology being envisaged for PreTUPS’s 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 |
| MAPPGW | Mobile Application Gateway |
| 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

* Comviva team

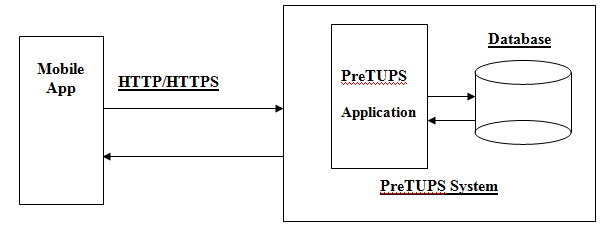
## References

NA

External System (Mobile App) API

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

## Architecture



* **External system (Mobile App)**: The system, which sends the request to PreTUPS System in plain data over http/https.
* **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 (Mobile App) and PreTUPS would be HTTP/HTTPS. The External system would make the HTTP/HTTPS connection with PreTUPS and send the request content as plain data. Response of each request would also be sent as plain data.

## 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/HTTPS 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/HTTPS Connection with PreTUPS. The details of HTTP Header and URL are mentioned below.

HTTP Header Information

POST <URL> HTTP

Content-type: text/plain

Connection: close

URL

[http://PreTUPShost/STUReceiever?LOGIN=<Login>&Password=<Password>&Request\_Gateway\_Code=<RequestGatewayCode>&Request\_Gateway\_Type=<RequestGatewayType>&Service\_Port=<ServicePort>&Source\_Type=<SourceType](http://PreTUPShost/STUReceiever?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/STUReceiever?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

## User Registration Request

Registration Request has been broken into two separate requests. Request1 and Request2.

# Request Syntax

TYPE=USRREGREQ&MSISDN=<MSISDN>&IMEI=<IMEI>&EMAIL=<email>& PIN=<PIN>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | USRREGREQ | USRREGREQ | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| EMAIL | Email Id of channel user | p@pretups.com |  | M |  |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=USRREGRES&TXNSTATUS=<TXN CODE>&SESSIONEXPIRY=<SESSION\_EXPIRY\_TIME\_IN\_SECONDS>&MESSAGE=<Message>

## C2S Change PIN Request

The External system will send the following request for changing the PIN in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE= C2SCPN&MSISDN=<MSISDN>&OLDPIN=<old pin>&NEWPIN=<new pin>&CONFIRMPIN=<confirm pin>&IMEI=<IMEI>&LANGUAGE1=<lang code>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | C2SCPN | C2SCPN | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| OLDPIN | Channel user Old PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| NEWPIN | Channel user New PIN | 2833 | 4 | M | Numeric Only. |
| CONFIRMPIN | Channel user Confirm PIN | 2833 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE= C2SCPNRES&TXNSTATUS=<Transaction Status>&MESSAGE=<Message>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | C2SCPNRES | C2SCPNRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Succes or fail. | 150 | M | Message specific to the error code. |

# Business Rules

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

## C2S Balance Enquiry

The External system will send the following request for quering the balance in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=C2SBAL&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<PIN>&LANGUAGE1=<lang code>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | STPACREQ | STPACREQ | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=C2SBALRES&TXNSTATUS=<TXN CODE>&MESSAGE=<Message>&BALANCE=<BALANCE\_STRING>

Example:

TYPE=C2SBALRES&TXNSTATUS=200&BALANCE=PRODUCT1:311963.34| PRODUCT2:1900.22&MESSAGE=Your balance for the product NG:PRODUCT1:311963.34, PRODUCT2:1900.22

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | C2SBALRES | C2SBALRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| BALANCE | Balance Details |  | 150 | M | Balance String in pre-defined format  Product\_code1:balance|Product\_code2:balance |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

# Business Rules

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

## C2S Change Language

The External system will send the following request for modifying the Language in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=CCHLANREQ&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<PIN>&LANGUAGE1=<LANG CODE>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | CCHLANREQ | CCHLANREQ | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=CCHLANRES&TXNSTATUS=<txn status>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | CCHLANRES | CCHLANRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* The initiator channel user (List owner) would receive a SMS notifying the successful/un-successful modification.

## Bill Payment

The External system will send the following request for Paying the bill in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=PPB&MSISDN=<MSISDN>&PIN=<PIN>&MSISDN2=<MSISDN2>&IMEI=<IMEI>&LANGUAGE1=<LANG CODE>&AMOUNT=<AMOUNT>&SELECTOR=<selector>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PPB | PPB | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MSISDN2 | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |
| AMOUNT | Amount | 100 | 5 | M | amount |
| SELECTOR | Bundle selector | 1,2,3 | 1 | M | Bundle type |

# Business Rules

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

# Response Syntax

TYPE=PPBRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | PPBRES | PPBRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

# Business Rules

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

## Recharge

The External system will send the recharge request in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=RC&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<PIN>&MSISDN2=<MSISDN2>&AMOUNT=<AMOUNT>&SELECTOR=<selector>&LANGUAGE1=<langcode>&LANGUAGE2=<lang code>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | RC | RC | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MSISDN2 | Subscriber mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| AMOUNT | Amount | 100 | 5 | M | amount |
| SELECTOR | Bundle selector | 1,2,3 | 1 | M | Bundle type |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=RCRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | RCRES | RCRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or this request cannot be processed etc. | 150 | M | Message related to the error code. |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* The initiator channel user (List owner) would receive a SMS notifying the successful/un-successful deletion.

## Gift Recharge

The External system will send the following request for gift recharge in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=GRC&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<pin>&MSISDN2=<Receiver MSISDN>&AMOUNT=<amount>&GIFTER\_NAME=<name>&GIFTER\_MSISDN=<MSISDN>&LANGUAGE1=<lang code>&LANGUAGE2=<lang code>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | GRC | GRC | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MSISDN2 | Reciever mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| GIFTER\_MSISDN | Gifter mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| AMOUNT | Amount | 100 | 14 | M | Numeric or decimal if system preference is true. |
| SELECTOR | Selector | 1,2,3  CVG,C,VG | 1 | M | Only the one’s configured in system. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=GRCRES&TXNSTATUS=*<Transaction Status>&*MESSAGE=<Transaction Message>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | GRCRES | GRCRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| TXNID | PreTups Transaction ID | STU000000123 | 30 | M | Alphanumeric |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

# Business Rules

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

## Last transfer status

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

# Request Syntax

TYPE=C2SLASTTRF&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<pin>&LANGUAGE1=<lang code>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | C2SLASTTRF | C2SLASTTRF | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| AMOUNT | Amount | 100 | 5 | M | Numeric or decimal depending on system preference. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |

**Fields Detail**

# Business Rules

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

# Response Syntax

TYPE= C2SLASTTRFRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | C2SLASTTRFRES | C2SLASTTRFRES | 15 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction message | Success or Fail | 150 | M | Message specific to error code |

# Business Rules

* The value for TYPE tag is fixed as mentioned in syntax.
* The initiator channel user (List owner) would receive a SMS notifying the successful/un-successful request.

## Daily Transfer

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

# Request Syntax

TYPE=C2SDAILYTR&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<pin>&LANGUAGE1=<lang code>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | C2SDAILYTR | C2SDAILYTR | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |

# Response Syntax

TYPE=C2SDAILYTRRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | C2SDAILYTRRES | C2SDAILYTRRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## C2S Last X transfer status

The External system will send the following request for checking the last X(variable) transfer details. The request format and details of request are mentioned below.

TYPE=C2SLASXTRF&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<pin>&LANGUAGE1=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | C2SLASXTRF | C2SLASXTRF | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |

# Response Syntax

TYPE=C2SLASXTRFRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | C2SLASXTRFRES | C2SLASXTRFRES | 13 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## C2C Return

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

TYPE=RET&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<PIN>&MSISDN2=<MSISDN2>&AMOUNT=<AMOUNT>&LANGUAGE1=<langcode>&LANGUAGE2=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | RET | RET | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Numeric |
| MSISDN2 | Reciever mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| AMOUNT | Amount | 100 | 5 | M | Numeric or decimal depending on system preference. |

# Response Syntax

TYPE=RETRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | RETRES | RETRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## C2C Transfer

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

TYPE=TRF&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<PIN>&MSISDN2=<MSISDN2>&AMOUNT=<AMOUNT>&LANGUAGE1=<langcode>&LANGUAGE2=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | TRF | TRF | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Numeric |
| MSISDN2 | Reciever mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| AMOUNT | Amount | 100 | 5 | M | Numeric or decimal depending on system preference. |

# Response Syntax

TYPE=TRFRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | TRFRES | TRFRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## C2C Withdraw

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

TYPE=WD&MSISDN=<MSISDN>&IMEI=<IMEI>&PIN=<PIN>&MSISDN2=<MSISDN2>&AMOUNT=<AMOUNT>&LANGUAGE1=<langcode>&LANGUAGE2=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | WD | WD | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Numeric |
| MSISDN2 | Reciever mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| AMOUNT | Amount | 100 | 5 | M | Numeric or decimal depending on system preference. |

# Response Syntax

TYPE=WDRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | WDRES | WDRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## Last X Transaction Report

The External system will send the following request for checking the last X(variable) transfer details. The request format and details of request are mentioned below.

TYPE=LASXTRF&MSISDN =<MSISDN>&IMEI=<IMEI>&PIN=<pin>&LANGUAGE1=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | LASXTRF | LASXTRF | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |

# Response Syntax

TYPE=LASXTRFRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | LASXTRFRES | LASXTRFRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## Other Balance Request

The External system will send the following request for checking the balance of the child user in his hierarchy. The request format and details of request are mentioned below.

TYPE=OTHERBALAN&MSISDN=< MSISDN>&IMEI=<IMEI>&MSISDN2=<MSISDN2>&PIN=<PIN>&LANGUAGE1=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | OTHERBALAN | OTHERBALAN | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |
| MSISDN2 | Reciever mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |

# Response Syntax

TYPE=OTHERBALANRES&TXNSTATUS=<TXN STATUS>&BALANCE=<BALANCE\_STRING>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | OTHERBALANRES | OTHERBALANRES | 13 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |
| BALANCE | Balance Details |  | 150 | M | Balance String in pre-defined format  Product\_code1:balance|Product\_code2:balance |

## C2s Recharge Reversal

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

TYPE=RCREVREQ&MSISDN=<CHANNEL\_USER\_MSISDN>& IMEI=<IMEI>&MSISDN2=<WRONG SUBSCRIBER MSISDN>&PIN=<PIN>&TXNID=<TRANSACTION id OF WRONG RECHARGE>&LANGUAGE1=<lang code>&LANGUAGE2=<lang code>

**Field Details**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| TYPE | RCREVREQ | RCREVREQ | 10 | M | Alphabets only. |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | Numeric |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MSISDN2 | Subscriber mobile number2 | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Numeric |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Numeric |
| TXNID | TRANSACTION ID | R141112.1814.100001 | 20 | M | ALPHANUMERIC |

# Response Syntax

TYPE= RCREVREQRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | RCREVREQ RES | RCREVREQ RES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or fail | 150 | M | Message specific to the error code. |

## User Authorization Request

User Authorization Request has been broken into two separate requests.

# Request Syntax

TYPE= USRAUTH&MSISDN=<MSISDN>&IMEI=<IMEI>&MHASH=<email>&PIN=<PIN>&LANGUAGE1=<Channel user language>

Example:

TYPE=USRAUTH&MSISDN=1600009913&IMEI=865405031390284&MHASH=865405031390284&PIN=2468&LANGUAGE1=0

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | USRAUTH | USRAUTH | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 865405031390284 | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 1600009913 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MHASH |  | 865405031390284 | 20 | M |  |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type  0-English  1-Other language |
| PIN | Channel User PIN |  | 4 | M |  |

# Business Rules

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

# Response Syntax

TYPE=USRAUTHRES&TXNSTATUS=<TXN CODE>&MESSAGE=<Message>& CATEGORY\_CODE=<Category code>&CATEGORY\_NAME=<Category Name>&SERVICE\_ALLOW=<Assign services>& TRANSFER\_ALLOW=<Allowed transfer rules>&SESSIONEXPIRY=<SESSION\_EXPIRY\_TIME\_IN\_SECONDS>&USER\_NAME=<User Name>&PINRESETREQD=<Y or N>

Example:

TYPE=USRAUTHRES&TXNSTATUS=200&OTP=Y&CATEGORY\_CODE=DIST&TOKEN=fb2fedd8faf33fb911c2c76bb6c0ec8544951e2896734b5261e20739948b5&MESSAGE=SUCCESS User name is MFATP, Category name is Distributor, Category code DIST.&SERVICE\_ALLOW=RC,PPB&TRANSFER\_ALLOW=T,W&CATEGORY\_NAME=Distributor&SESSIONEXPIRY=300&USER\_NAME=ABC DISTRIBUTORS&PINRESETREQD=Y

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | USRAUTHRES | USRAUTHRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | 200 | 200,7024,etc.. | 10 | M | 200-Success response, other than 200 fail |
| MESSAGE |  | SUCCESS User name is MFATP, Category name is ATP Retailer, Category code AR. | 400 | M | Message against transaction status |
| OTP |  | Y/N | 1 | M | OTP required or not |
| CATEGORY\_CODE | Category code of login user | DIST | 20 | M | Category code of login user |
| CATEGORY\_NAME | Category name of login user | Distributor | 50 | M | All characters allowed Category name of login user |
| SERVICE\_ALLOW | Service | RC,PPB,EVD,VAS, GRC | 100 | O | Comma separated multiple services  RC-Customer Recharge  PPB-Bill payment  EVD-Voucher distribution  VAS-VAS Recharge  GRC-Gift Recharge |
| TRANSFER\_ALLOW | Transfer allowed | T,R,W,X | 50 | O | Comma separated transfer allowed  T-Transfer  R-Return  W-Withdrawal  X-Reversal |
| TOKEN |  |  |  |  |  |
| SESSIONEXPIRY | Session Expiry Time | 300 | 10 | M | Session Expiry Time for Mobile App |
| USER\_NAME | Name of the User | ABC Distributor | 50 | M | Name of the User |
| PINRESETREQD | PIN Reset Required Flag | PIN Reset Required Flag | 1 | Y | PIN Reset Required Flag Y or N |

## Version Info API

Mobile App will send the following request for validating the Mobile App version in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE= VERINFO&APPTYPE=<MAPP>&CURVERSION=<X.Y.Z>&PLATFORM=<Android/iOS>&MSISDN

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | VERREQ | VERREQ | 15 | M | Request Type. Static & fixed value |
| APPTYPE | Application Type | MAPP | 15 | M | Fixed Value for MobileApp is MAPP |
| CURVERSION | Current Version of Mobile App | 1.0.0 | 15 | O | Current Version of Mobile App |
| PLATFORM | Platform for Mobile App | Android | 15 | M | Accepted Values for Mobile App=Android or iOS |
| MSISDN | MSISDN of channel User | 9595959500 | 15 | M | Channel User MSISDN, |

# Business Rules

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

# Response Syntax

TYPE= VERINFORES&TXNSTATUS=<Transaction Status>&MESSAGE=<Message>&APPTYPE=<MAPP>&VERSION=<A.B.C>&PLATFORM=<Android/iOS>&UPDTYPE=<M/O/N>&UPDURL=<UpdateUrl>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | VERRES | VERRES | 15 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Succes or fail. | 150 | M | Message specific to the error code. |
| APPTYPE | Application Type | MAPP | 15 | M | Fixed Value for MobileApp is MAPP |
| VERSION | Application Latest Version | 1.0.0 | 15 | M | Latest Version of Application Type Sent in Request |
| PLATFORM | Platform for Mobile App | Android | 15 | M | Accepted Values for Mobile App=Android or iOS |
| UPDTYPE | Update Type | M/O/R | 1 | N | M=Mandatory  O=Optional/Recommended  N=Not Required |
| UPDURL | UpdateURL | http://xxx/yy/zz | 50 | O | APK Update URL. Will be optional only in case UPDTYPE=N |

# Business Rules

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

## Service Selector Info API

Mobile App will send the following request to fetch Service selector details of PreTUPS Service. The request format and details of request are mentioned below.

# Request Syntax

TYPE=VASSERVICE&MSISDN=<MSISDN>&IMEI=<IMEI>&MHASH=<MHASH>&TOKEN=<Token value>&SERVICE=<Service type>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | VASSERVICE | VASSERVICE | 15 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 865405031390284 | 15 | M | NUMERIC |
| MSISDN | Channel user mobile number | 1600009913 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MHASH | Hash Value | 865405031390284 | 20 | M | Application internal use |
| Token |  | 418e586e9a61e8d0267835f421ab1e17aca377e7155b41f7296f28a986616ac2 | 100 | M | Application internal use |
| SERVICE | Service typpe | VAS | 10 | M | Service for which selector has to be fetched |

# Business Rules

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

# Response Syntax

TYPE=VASSERVICERES&TXNSTATUS=200&GROUPING=true/false&MESSAGE= <selector name>#<selector code>#<selector amount>#<Group description>|<selector2 name>#<selector2 code>#<selector2 amount>#<Group description>|

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | VERRES | VERRES | 15 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| GROUPING | Grouping allowed | True/false | 5 | M | Grouping allowed for service . |
| MESSAGE | Transaction Message | Paq Youtube – 1 hora $3,000#31260#3000#Aplicacione | MAX | M | Service Selector details separated by delimiters. |

# Business Rules

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

## VAS API

Mobile App will send the following request for VAS Recharge in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=VAS&MSISDN=<MSISDN>&IMEI=<IMEI>&MHASH=<MHASH>&TOKEN=<Token value>&PIN=<PIN>&MSISDN2=<MSISDN2>&AMOUNT=<AMOUNT>&SELECTOR=<selector>&LANGUAGE1=<langcode>&LANGUAGE2=<lang code>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | VAS | VAS | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MHASH | Hash Value | 865405031390284 | 20 | M | Application internal use |
| Token | Token Value | 418e586e9a61e8d0267835f421ab1e17aca377e7155b41f729 | 100 | M | Application internal use |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MSISDN2 | Subscriber mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| AMOUNT | Amount | 100 | 5 | M | Amount |
| SELECTOR | Service selector | 1,2,3 | 1 | M | Selector Code |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=VASRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | VASRES | VASRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or this request cannot be processed etc. | 150 | M | Message related to the error code. |

# Business Rules

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

## DTH API

Mobile App will send the following request for validating the Mobile App version in PreTUPS. The request format and details of request are mentioned below.

# Request Syntax

TYPE=DTH&MSISDN=<MSISDN>&IMEI=<IMEI>&MHASH=<MHASH>&TOKEN=<Token value>&PIN=<PIN>&MSISDN2=<MSISDN2>&AMOUNT=<AMOUNT>&SELECTOR=<selector>&LANGUAGE1=<langcode>&LANGUAGE2=<lang code>

**Fields Detail**

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | DTH | DTH | 10 | M | Request Type. Static & fixed value |
| IMEI | IMEI number | 58HVDKGGGGG56T | 15 | M | NUMERIC |
| MHASH | Hash Value | 865405031390284 | 20 | M | Application internal use |
| Token | Token Value | 418e586e9a61e8d0267835f421ab1e17aca377e7155b41f729 | 100 | M | Application internal use |
| MSISDN | Channel user mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| MSISDN2 | Subscriber mobile number | 9942222 | 15 | M | All MSISDN should be without country code.  (National dial format) |
| PIN | Channel user PIN as registered in PreTUPS | 3946 | 4 | M | Numeric Only. |
| AMOUNT | Amount | 100 | 5 | M | amount |
| SELECTOR | Service selector | 1,2,3 | 1 | M | Selector Code |
| LANGUAGE1 | Language 1 | 0(en) | 1 | M | Locale type |
| LANGUAGE2 | Language 2 | 0(en) | 1 | M | Locale type |

# Business Rules

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

# Response Syntax

TYPE=DTHRES&TXNSTATUS=<TXN STATUS>&MESSAGE=<MESSAGE>

Fields Detail

| TAG | Fields | Example | Max Length | Optional/Mandatory | Remarks |
| --- | --- | --- | --- | --- | --- |
| TYPE | DTHRES | DTHRES | 10 | M | Response Type. Static & fixed value |
| TXNSTATUS | Request Status | 200 | 5 | M | Transaction Status i.e.  Transaction OK (200), failed other status |
| MESSAGE | Transaction Message | Success or this request cannot be processed etc. | 150 | M | Message related to the error code. |

# Business Rules

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

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