



Mobile Recharge

API

V3.4



always active **mobile**

An AAT Group Company



We are proud to be an AAT Group company

www.alwaysactivemobile.co.za

care@aat.co.za

(+27) 031 100 0201

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Version history

Version	Revision Date	Author	Changes
1.0	9 Mar 2016	Maruschka Van Heerden	Initial draft
2.0	6 June 2016	Maruschka Van Heerden	Final document
2.1	29 June 2016	Maruschka Van Heerden	Adding functions, fixing data return types
3	24 May 2017	Jonathan Hudson	Changed Name and added Call-back
3.1	31 May 2017	Jonathan Hudson	Removed Line under GetUserCredit
3.2	24 July 2017	Jonathan Hudson	Updated Field Type in Call-Back
3.3	7 March 2018	Jonathan Hudson	Updated URL
3.4	10 April 2018	Jonathan Hudson	Updated General Information

Overview

This Mobile Recharge API allows developers to build Recharge functionality into their system.

Recharge Types

PINNED Recharge

In this scenario A PIN is issued back to you in our response and it is your responsibility to distribute it as you see fit e.g. by SMS.

Users can recharge by following this process:

Network	Process
Vodacom	To recharge dial *100*01*voucher# or 100.
MTN	To recharge dial *141*voucher# or 141.
Cell C	To recharge dial *102*voucher# or 141.
Telkom	To recharge dial *188*voucher#.

PINLESS Recharge

As the name suggests no PIN is issued but rather a direct recharge is initiated and will happen automatically.

In general, Data products are PINLESS only.

The Mobile Network Operators do normally send a SMS when a recharge happens, example messages they send:

Network	Process
Vodacom	Your Vodacom XYZ Once Off data bundle has been activated and is valid until DD/MM/YYYY. To view balances, buy bundles & save dial *111# or visit vodacom.mobi
MTN	Y'ello, you've successfully loaded a MTN XYZ bundle
Cell C	You have successfully recharged your prepaid account with XYZ Data. Expiry date: DD/MM/YYYY
Telkom	Your account was successfully loaded: XYZ - Onceoff [Ref: ABCDERFGHIJK]

WSDL

<https://mobilerechargeapi.gsm.co.za/MobileRecharge.asmx>

Recharge Process

1. To get the network Id you can use one of these calls:
 - a. GetNewtork - use this call to get the network id, this requires the use of a msisdn.
 - b. GetNewtorkList - returns a list of supported mobile networks.
2. GetVoucherType - use the network id to get the voucher type id.
3. GetVoucher - use voucher type id and network id to get the voucher id.
4. Perform recharge using the info in **VoucherDetails** (the information returned from GetVoucher).
Recharge functions:
 - a. PerformPinlessRecharge
 - b. PerformPinnedRecharge
 - c. PerformPinnedRechargeWithoutMsisdn
5. Perform recharge for fixed amount vouchers the following functions can be used. The only difference between theses and the ones on top is that you don't have to specify the amount. Fixed amount recharge functions:
 - a. PerformPinlessRechargeFixedAmount
 - b. PerformPinnedRechargeFixedAmount
 - c. PerformPinnedRechargeWithoutMsisdnFixedAmount

Client Calls

GetNetwork

Description

This call returns the network and network id that will be used in getting the voucher type and vouchers available.

Request

Method	URL
	/GetNetwork?username=test&password=1234&msisdn=27810000000

Response

- Returns network name and id depending on the MSISDN.
- MSISDN needs to start with 27.

	Response Example
Valid networks	<pre><NetworkInfo xmlns="https://mobilerechargeapi.gsm.co.za/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <Id>2</Id> <Name>MTN</Name> </NetworkInfo></pre>
Invalid Network	<pre><NetworkInfo xmlns="https://mobilerechargeapi.gsm.co.za/" xmlns:xsd="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> <Id>0</Id> <Error>no network found</Error> </NetworkInfo></pre>
Invalid MSISDN	<pre><NetworkInfo> <Id>0</Id> <Error>invalid msisdn. </Error> </NetworkInfo></pre>

GetNetworkList

Description

This call returns the network and network id that will be used in getting the voucher type and vouchers available.

Request

Method	URL
	/GetNetworkList?username=test&password=1234

Response

	Response Example
Valid networks	<pre><ArrayOfNetworkInfo> <NetworkInfo> <Id>1</Id> <Name>Vodacom</Name> </NetworkInfo> <NetworkInfo> <Id>2</Id> <Name>MTN</Name> </NetworkInfo> <NetworkInfo> <NetworkInfo> <Id>9</Id> <Name>Telkom Mobile</Name> </NetworkInfo> <NetworkInfo> <Id>12</Id> <Name>Virgin Mobile</Name> </NetworkInfo> </ArrayOfNetworkInfo></pre>
Invalid User	<pre><ArrayOfNetworkInfo> <NetworkInfo> <Id>0</Id> <Error>unAuthorised user. </Error> </NetworkInfo> </ArrayOfNetworkInfo></pre>

GetVoucherType

Description

This call returns the valid voucher types for the network the MSISDN is on.

Request

Method	URL
	/GetVoucherType?username=test&password=1234&networkId=2

Response

	Response Example
Valid product type list	<pre><ArrayOfVoucherTypeInfo> <VoucherTypeInfo> <Id>13</Id> <NetworkId>2</NetworkId> <Name>Airtime Voucher</Name> <FixedAmount>>false</FixedAmount> </VoucherTypeInfo> <VoucherTypeInfo> <Id>2</Id> <NetworkId>2</NetworkId> <Name>SMS Bundle</Name> <FixedAmount>>false</FixedAmount> </VoucherTypeInfo> <VoucherTypeInfo> <Id>17</Id> <NetworkId>2</NetworkId> <Name>Data Bundle Voucher</Name> <FixedAmount>>false</FixedAmount> </VoucherTypeInfo> </ArrayOfVoucherTypeInfo></pre>
Invalid msisdn	<pre><ArrayOfVoucherTypeInfo> <VoucherTypeInfo> <Id>0</Id> <NetworkId>0</NetworkId> <FixedAmount>>false</FixedAmount> <Error>no voucher types found for network. </Error> </VoucherTypeInfo> </ArrayOfVoucherTypeInfo></pre>

Getvouchers

Description

This call returns the valid vouchers for the specified voucher type and network

Request

Method	URL
	/GetVoucher?username=test&password=1234&networkId=2&vouchertype=13

Response

	Response
Voucher list	<pre><ArrayOfVoucherDetails> <VoucherDetails> <Id>121</Id> <Name>MTN R2.00 voucher</Name> <Description>MTN R2.00 voucher</Description> <MaxAmount>2.00</MaxAmount> <MinAmount>2.00</MinAmount> <PinnedVoucher>true</PinnedVoucher> </VoucherDetails> <VoucherDetails> <Id>120</Id> <Name>MTN R5.00 voucher</Name> <Description>MTN R5.00 voucher</Description> <MaxAmount>5.00</MaxAmount> <MinAmount>5.00</MinAmount> <PinnedVoucher>true</PinnedVoucher> </VoucherDetails> </ArrayOfVoucherDetails></pre>
Invalid network id	<pre><ArrayOfVoucherDetails> <VoucherDetails> <Id>0</Id> <MaxAmount>0</MaxAmount> <MinAmount>0</MinAmount> <PinnedVoucher>false</PinnedVoucher> <Error>no Network found. </Error> </VoucherDetails> </ArrayOfVoucherDetails></pre>

Invalid voucher type id	<pre> <ArrayOfVoucherDetails> <VoucherDetails> <Id>0</Id> <MaxAmount>0</MaxAmount> <MinAmount>0</MinAmount> <PinnedVoucher>>false</PinnedVoucher> <Error>no Voucher found. </Error> </VoucherDetails> </ArrayOfVoucherDetails> </pre>
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PerformPinlessRecharge

Description

This call preforms a pin less recharge

Request

- clientRef needs to be unique for each successful transaction

Method	URL
	/PerformPinlessRecharge?username=test&password=1234&recipientMsisdn=27810002000&voucherId=121&amount=2&clientRef=12323

Response

	Response Example
Valid user	<pre> <RechargeInfo> <VoucherPin>0000000011180837</VoucherPin> <OrderRef>98187964</OrderRef> <TicketNumber>SAWPK7G7HN6D </TicketNumber> <BoxNumber>13004934</BoxNumber> <BatchNumber>130049348</BatchNumber> <TransactionError>>false</TransactionError> </RechargeInfo> </pre>
Invalid product id	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>voucher id doesn't exist for mobile network</Error> </RechargeInfo> </pre>
Invalid amount, over max recharge amount	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>invalid amount. Amount needs to be between R2 and R5 (Max Recharge Amount Set: R5)</Error> </RechargeInfo> </pre>

Invalid amount	<RechargeInfo> <TransactionError>true</TransactionError> <Error>invalid amount. Amount needs to exactly be: 2</Error> </RechargeInfo>
Invalid MSISDN	<RechargeInfo> <TransactionError>true</TransactionError> <Error>Invalid recharge Cell No provided</Error> </RechargeInfo>
Credit limit reached	<RechargeInfo> <TransactionError>true</TransactionError> <Error>insufficient credit to complete the transaction. Current credit - R1</Error> </RechargeInfo>
Reference already used	<RechargeInfo> <TransactionError>true</TransactionError> <Error>client reference already used </Error> </RechargeInfo>

PerformPinnedRecharge

Description

This call preforms the ordering of a pinned voucher.

Request

Method	URL
	/PerformPinnedRecharge?username=test&password=1234&recipientMsisdn=27810002000&voucherId=121&amount=2&clientRef=1243

Response

	Response Example
Valid user	<RechargeInfo> <VoucherPin>0000000011180837</VoucherPin> <OrderRef>98187964</OrderRef> <TicketNumber>SAWPK7G7HN6D </TicketNumber> <BoxNumber>13004934</BoxNumber> <BatchNumber>130049348</BatchNumber> <TransactionError>false</TransactionError> </RechargeInfo>

Invalid product id	<RechargeInfo> <TransactionError>true</TransactionError> <Error>voucher id doesn't exist for mobile network MTN</Error> </RechargeInfo>
Invalid amount, over max recharge amount	<RechargeInfo> <TransactionError>true</TransactionError> <Error>invalid amount. Amount needs to be between R2 and R5 (Max Recharge Amount Set: R5) </Error> </RechargeInfo>
Invalid amount	<RechargeInfo> <TransactionError>true</TransactionError> <Error>invalid amount. Amount needs to exactly be: 2</Error> </RechargeInfo>
Invalid MSISDN	<RechargeInfo> <TransactionError>true</TransactionError> <Error>Invalid recharge Cell No provided</Error> </RechargeInfo>
Credit limit reached	<RechargeInfo> <TransactionError>true</TransactionError> <Error>insufficient credit to complete the transaction. Current credit - R1</Error> </RechargeInfo>
Reference already used	<RechargeInfo> <TransactionError>true</TransactionError> <Error>client reference already used. </Error> </RechargeInfo>

PerformPinnedRechargeWithoutMsisdn

Description

This call preforms the ordering of a pinned voucher.

Request

Method	URL
	/PerformPinnedRechargeWithoutMsisdn?username=test&password=1234&voucherId=121&amount=2&clientRef=1243

Response

	Response Example
Valid user	<pre><RechargeInfo> <VoucherPin>0000000011180837</VoucherPin> <OrderRef>98187964</OrderRef> <TicketNumber>SAWPK7G7HN6D </TicketNumber> <BoxNumber>13004934</BoxNumber> <BatchNumber>130049348</BatchNumber> <TransactionError>false</TransactionError> </RechargeInfo></pre>
Invalid product id	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>voucher id doesn't exist for mobile network MTN</Error> </RechargeInfo></pre>
Invalid amount, over max recharge amount	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>invalid amount. Amount needs to be between R2 and R5 (Max Recharge Amount Set: R5) </Error> </RechargeInfo></pre>
Invalid amount	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>invalid amount. Amount needs to exactly be: 2</Error> </RechargeInfo></pre>
Credit limit reached	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>insufficient credit to complete the transaction. Current credit - R1</Error> </RechargeInfo></pre>

Reference already used	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>client reference already use </Error> </RechargeInfo> </pre>
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PerformPinlessRechargeFixedAmount

Description

This call preforms a pin less recharge

Request

- clientRef needs to be unique for each successful transaction

Method	URL
	/PerformPinlessRechargeFixedAmount?username=test&password=1234&recipientMsisdn=27810002000&voucherId=121&clientRef=12323

Response

	Response Example
Valid user	<pre> <RechargeInfo> <VoucherPin>0000000011180837</VoucherPin> <OrderRef>98187964</OrderRef> <TicketNumber>SAWPK7G7HN6D </TicketNumber> <BoxNumber>13004934</BoxNumber> <BatchNumber>130049348</BatchNumber> <TransactionError>false</TransactionError> </RechargeInfo> </pre>
Invalid product id	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>voucher id doesn't exist for mobile network</Error> </RechargeInfo> </pre>
Invalid call	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>This isn't a fixed amount voucher. You need to use the PerformPinlessRecharge, PerformPinnedRecharge, PerformPinnedRechargeWithoutMsisdn calls. </Error> </RechargeInfo> </pre>

Invalid MSISDN	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>Invalid recharge Cell No provided</Error> </RechargeInfo> </pre>
Credit limit reached	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>insufficient credit to complete the transaction. Current credit - R1</Error> </RechargeInfo> </pre>
Reference already used	<pre> <RechargeInfo> <TransactionError>true</TransactionError> <Error>client reference already used </Error> </RechargeInfo> </pre>

PerformPinnedRechargeFixedAmount

Description

This call performs the ordering of a pinned voucher.

Request

Method	URL
	/PerformPinnedRechargeFixedAmount?username=test&password=1234&recipientMsisdn=27810002000&voucherId=121&clientRef=1243

Response

	Response Example
Valid user	<pre> <RechargeInfo> <VoucherPin>0000000011180837</VoucherPin> <OrderRef>98187964</OrderRef> <TicketNumber>SAWPK7G7HN6D </TicketNumber> <BoxNumber>13004934</BoxNumber> <BatchNumber>130049348</BatchNumber> <TransactionError>false</TransactionError> </RechargeInfo> </pre>

Invalid product id	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>voucher id doesn't exist for mobile network MTN</Error> </RechargeInfo></pre>
Invalid call	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>This isn't a fixed amount voucher. You need to use the PerformPinlessRecharge, PerformPinnedRecharge, PerformPinnedRechargeWithoutMsisdn calls. </Error> </RechargeInfo></pre>
Invalid MSISDN	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>Invalid recharge Cell No provided</Error> </RechargeInfo></pre>
Credit limit reached	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>insufficient credit to complete the transaction. Current credit - R1</Error> </RechargeInfo></pre>
Reference already used	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>client reference already used. </Error> </RechargeInfo></pre>

PerformPinnedRechargeWithoutMsisdnFixedAmount

Description

This call preforms the ordering of a pinned voucher.

Request

Method	URL
	/PerformPinnedRechargeWithoutMsisdnFixedAmount?username=test&password=1234&voucherId=121&clientRef=1243

Response

	Response Example
Valid user	<pre><RechargeInfo> <VoucherPin>0000000011180837</VoucherPin> <OrderRef>98187964</OrderRef> <TicketNumber>SAWPK7G7HN6D </TicketNumber> <BoxNumber>13004934</BoxNumber> <BatchNumber>130049348</BatchNumber> <TransactionError>false</TransactionError> </RechargeInfo></pre>
Invalid product id	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>voucher id doesn't exist for mobile network MTN</Error> </RechargeInfo></pre>
Invalid call	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>This isn't a fixed amount voucher. You need to use the PerformPinlessRecharge, PerformPinnedRecharge, PerformPinnedRechargeWithoutMsisdn calls. </Error> </RechargeInfo></pre>
Credit limit reached	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>insufficient credit to complete the transaction. Current credit - R1</Error> </RechargeInfo></pre>
Reference already used	<pre><RechargeInfo> <TransactionError>true</TransactionError> <Error>client reference already use </Error> </RechargeInfo></pre>

GetUserCredit

Description

This call returns the user's total credit and the remaining credit.

Request

Method	URL
	/GetUserCredit?username=test&password=12345

Response

	Response
Valid user	<pre><UserCredit> <Id>1</Id> <Name>Test</Name> <RemainingCredit>22</RemainingCredit> </UserCredit></pre>
Invalid token	<pre><UserCredit> <Id>0</Id> <RemainingCredit>0</RemainingCredit> <Error>unauthorized</Error> </UserCredit></pre>

GetTransactionInfo

Description

This call returns the users last transaction.

Request

Method	URL
	api/GetTransactionInfo? username=test&password=1234&clientref=23342&fmt=json

Response

	Response Example
Valid transaction	<pre><TransactionVoucherInfo> <MSISDN>27810236221</MSISDN> <Amount>5</Amount> <VoucherType>66</VoucherType> <VoucherPin>000004989989 </VoucherPin> <TicketNumber>13138475906 </TicketNumber> <OrderRef>98187965</OrderRef> <BoxNumber>5007364</BoxNumber> <BatchNumber>50134643</BatchNumber> <ExpiryDate>0001-01-01T00:00:00</ExpiryDate> <Status>OK</Status> </TransactionVoucherInfo></pre>
No transaction	<pre><TransactionVoucherInfo> <Amount>0</Amount> <ExpiryDate>0001-01-01T00:00:00</ExpiryDate> <Error>no transaction information found</Error> </TransactionVoucherInfo></pre>

GetTransactionCount

Description

This call returns the number of transaction

Request

- The date format needs to be in the following format – YYYY-MM-DD

Method	URL
	/GetTransactionCount? username=test&password=1234&startdate=2016-01-01&enddate=2016-01-06

Response

	Response Example
Valid transaction	<pre><TotalTransaction> <Start>2016-01-01T00:00:00</Start> <End>2016-01-06T00:00:00</End> <Transactions>0</Transactions> </TotalTransaction></pre>

GetUserStatus

Description

This call returns the environment the user is using

- Testing – testing environment
- Live – live environment

Request

Method	URL
	/GetUserStatus?username=test&password=12345

Response

	Response
Valid user	<pre><UserStatus> <Environment>testing</Environment> <Enabled>true</Enabled> </UserStatus></pre>
Invalid token	<pre><UserStatus> <Enabled>false</Enabled> <Error>unauthorized</Error> </UserStatus></pre>

Call-back Feature

The Mobile Recharge Call-back feature is an optional feature where we call your specified URL with the details of transactions that have occurred.

All you need to do is provide us with a URL. An example:

www.yoururl.co.za/mypage.asp

How it works

Our system rechecks on the status of every transaction hourly for up to 3 hours after it is completed to ensure that the status of the transaction hasn't changed. We also do a final check at the end of each day for all transactions in that day in the unlikely event that the transaction has failed later than 3 hours past the transaction time.

Our application automatically sends a POST request to your URL. Within the body of the POST request are the details of the transaction.

POST Request Body Explained

The information contained in the body of the POST request is in JSON format and contains the following fields:

- `TransactionId`: The unique internal reference for the Transaction
- `ClientRef`: The Client's unique reference for the Prepaid Voucher
- `OrderRef`: The user's unique reference for the Prepaid Voucher
- `MSISDN`: The cellphone number (Mobile Subscriber Integrated Services Digital Network) that the Voucher was sent to.
- `Amount`: The value of the Voucher.
- `VoucherType`: The Voucher Type code.
- `Description`: A Description of the Voucher Type.
- `Network`: The network that the Voucher is valid for.
- `Success`: Whether Transaction is Successful or Not (Type: Boolean)
- `FailReason`: The reason that the transaction failed (if available).

Support

We've tried to put all the information we could in this Guide, but we are sure you'll have some questions.

If you would like to chat to us, please call us on **031 100 0201** and we'll help you out as best we can.